

PermaGrip PG-107XM, PermaGrip PG-107XMG, PermaGrip PG107XMR ICP Construction Inc.

Version No: 5.6

Safety Data Sheet according to OSHA HazCom Standard (2024) requirements

Initial Date: **03/01/2025** Revision Date: **06/18/2025**

Print Date: **06/18/2025** S.GHS.USA.EN

SECTION 1 Identification

Product Identifier

Product name	PermaGrip PG-107XM, PermaGrip PG-107XMG, PermaGrip PG107XMR	
Synonyms	Not Available	
Proper shipping name	Chemical under pressure, flammable, n.o.s. (contains dimethyl ether, butane and propane)	
Other means of identification	Not Available	

Recommended use of the chemical and restrictions on use

Relevant identified uses	Contact Adhesive
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Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Registered company name	ICP Construction Inc.	
Address	50 Dascomb Road Andover, MA 01810 United States	
Telephone	866-667-5119 1-978-623-9987	
Fax	Not Available	
Website	www.icpgroup.com	
Email	sds@icpgroup.com	

Emergency phone number

Association / Organisation	ChemTel
Emergency telephone number(s)	1-800-255-3924
Other emergency telephone number(s)	1-813-248-0585

SECTION 2 Hazard(s) identification

Classification of the substance or mixture

NFPA 704 diamond



Note: The hazard category numbers found in GHS classification in section 2 of this SDSs are NOT to be used to fill in the NFPA 704 diamond. Blue = Health Red = Fire Yellow = Reactivity White = Special (Oxidizer or water reactive substances)

Classification

Chemical Under Pressure Category 2, Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2A, Specific Target Organ Toxicity - Single Exposure (Narcotic Effects) Category 3, Reproductive Toxicity Category 1B, Specific Target Organ Toxicity - Repeated Exposure Category 2, Hazardous to the Aquatic Environment Acute Hazard Category 2, Hazardous to the Aquatic Environment Long-Term Hazard Category 1, Simple Asphyxiant

Label elements

Hazard pictogram(s)











Signal word

Danger

Hazard statement(s)

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H283	Flammable chemical under pressure: May explode if heated	
H315	Causes skin irritation.	
H319	Causes serious eye irritation.	
H336	May cause drowsiness or dizziness.	
H360	May damage fertility or the unborn child.	
H373	May cause damage to organs through prolonged or repeated exposure. (Respiratory system) (Inhalation)	
H401	Toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	
	May displace oxygen and cause rapid suffocation	

Hazard(s) not otherwise classified

Not Applicable

Precautionary statement(s) Prevention

P201	Obtain special instructions before use.	
P260	o not breathe gas.	
P271	Use only outdoors or in a well-ventilated area.	
P280	Wear protective gloves, protective clothing, eye protection and face protection.	
P273	Avoid release to the environment.	
P202	P202 Do not handle until all safety precautions have been read and understood.	
P264	Wash all exposed external body areas thoroughly after handling.	

Precautionary statement(s) Response

P308+P313	IF exposed or concerned: Get medical advice/ attention.		
P370+P378	In case of fire: Use alcohol resistant foam or fine spray/water fog to extinguish.		
P376	Stop leak if safe to do so.		
P381	Eliminate all ignition sources if safe to do so.		
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
P337+P313	If eye irritation persists: Get medical advice/attention.		
P391	Collect spillage.		
P302+P352	IF ON SKIN: Wash with plenty of water and soap.		
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.		
P362+P364	Take off contaminated clothing and wash it before reuse.		

Precautionary statement(s) Storage

P405	Store locked up.	
P410+P403	Protect from sunlight. Store in a well-ventilated place.	
P403+P233 Store in a well-ventilated place. Keep container tightly closed.		

Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
67-64-1	10.548	acetone
108-88-3	<0.025197	toluene
71-43-2	<0.000252	<u>benzene</u>
100-41-4	0.000266-0.000311	<u>ethylbenzene</u>
98-82-8	<0.000252	cumene
64742-49-0	25.196852	Naphtha (petroleum), hydrotreated light
110-54-3	<0.025197	<u>n-hexane</u>
25085-50-1	>3.346253	p-tert-butylphenol/ formaldehyde resin
7732-18-5	0.06816	<u>water</u>
108-88-3	3.110822	toluene
25038-32-8	9.918	styrene/ isoprene copolymer
9003-31-0	>1.88298	isoprene homopolymer
Not Available	<0.013314	Solvent(n-hexane)
Not Available	0.001902	Antioxidant(2,6-di-t-butyl-4-cresol)
64742-16-1	3.222732	hydrocarbon resin, postpolymerised with maleic anhydride
2082-79-3	0.24	3,5-bis(butyl)-4-hydroxyhydrocinnamic stearate
Not Available	>2.059872	Proprietary Rosin Phenolic Resin

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Not Available	%. Weight 0.004128	Name Rophetary Antioxidant
64742-53-6	0.002992-0.004189	naphthenic distillate, light, hydrotreated (mild)
92257-31-3	0.002992-0.004189	C.I. Solvent Red 164
74-98-6	8.096	propane
106-97-8.	7.904	butane
115-10-6	24	dimethyl ether

SECTION 4 First-aid measures

Description of first aid measures

Eye Contact	If this product comes in contact with the eyes: • Wash out immediately with fresh running water. • Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. • Seek medical attention without delay; if pain persists or recurs seek medical attention. • Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation. For thermal burns: Decontaminate area around burn. Consider the use of cold packs and topical antibiotics. For first-degree burns (affecting top layer of skin) Hold burned skin under cool (not cold) running water or immerse in cool water until pain subsides. Use compresses if running water is not available. Cover with sterile non-adhesive bandage or clean cloth. Do NOT apply butter or ointments; this may cause infection. Give over-the counter pain relievers if pain increases or swelling, redness, fever occur. For second-degree burns (affecting top two layers of skin) Cool the burn by immerse in cold running water for 10-15 minutes. Use compresses if running water is not available. Do NOT apply ice as this may lower body temperature and cause further damage. Do NOT break blisters or apply butter or ointments; this may cause infection. Protect burn by cover loosely with sterile, nonstick bandage and secure in place with gauze or tape. To prevent shock: (unless the person has a head, neck, or leg injury, or it would cause discomfort): Lay the person flat. Elevate feet about 12 inches. Elevate feet about 12 inches. Elevate feet about 12 inches. Seek medical assistance. For third-degree burns Seek immediate medical or emergency assistance. In the mean time: Protect burn area above heart level, if possible. Cover the person with coat or blanket. Seek medical assistance. For third-degree burns Seek immediate medical or emergency assistance. In the mean time: Protect burn area cover loosely with sterile, nonstick bandage or, for large areas, a sheet or other material that will not leave lint in wound. Separate burned toes and fingers with dry, sterile dressings. Do not soak burn in water or apply ointments or butter; this may cause infection. To prevent shock see above. For an airway
Inhalation	If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.
Ingestion	 Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Most important symptoms and effects, both acute and delayed

See Section 11

Indication of any immediate medical attention and special treatment needed

for lower alkyl ethers:

BASIC TREATMENT

- Establish a patent airway with suction where necessary.
- Watch for signs of respiratory insufficiency and assist ventilation as necessary.
 Administer oxygen by non-rebreather mask at 10 to 15 l/min.
- A low-stimulus environment must be maintained.
- Monitor and treat, where necessary, for shock.
- Anticipate and treat, where necessary, for seizures
- DO NOT use emetics. Where ingestion is suspected rinse mouth and give up to 200 ml water (5 ml/kg recommended) for dilution where patient is able to swallow, has a strong gag reflex and does not drool.

ADVANCED TREATMENT

- Consider orotracheal or nasotracheal intubation for airway control in unconscious patient or where respiratory arrest has occurred.
- Positive-pressure ventilation using a bag-valve mask might be of use.
- Monitor and treat, where necessary, for arrhythmias.
- Start an IV D5W TKO. If signs of hypovolaemia are present use lactated Ringers solution. Fluid overload might create complications.
- Drug therapy should be considered for pulmonary oedema.
- Hypotension without signs of hypovolaemia may require vasopressors.
- Treat seizures with diazepam.
- Proparacaine hydrochloride should be used to assist eye irrigation.

EMERGENCY DEPARTMENT

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- Laboratory analysis of complete blood count, serum electrolytes, BUN, creatinine, glucose, urinalysis, baseline for serum aminotransferases (ALT and AST), calcium, phosphorus and magnesium, may assist in establishing a treatment regime. Other useful analyses include anion and osmolar gaps, arterial blood gases (ABGs), chest radiographs and electrocardiograph.
- ▶ Ethers may produce anion gap acidosis. Hyperventilation and bicarbonate therapy might be indicated.
- ▶ Haemodialysis might be considered in patients with impaired renal function.
- Consult a toxicologist as necessary.

BRONSTEIN, A.C. and CURRANCE, P.L.

EMERGENCY CARE FOR HAZARDOUS MATERIALS EXPOSURE: 2nd Ed. 1994

For gas exposures:

BASIC TREATMENT

- Establish a patent airway with suction where necessary.
- Watch for signs of respiratory insufficiency and assist ventilation as necessary.
- Administer oxygen by non-rebreather mask at 10 to 15 l/min.
- Monitor and treat, where necessary, for pulmonary oedema .
- Monitor and treat, where necessary, for shock.
- Anticipate seizures.

ADVANCED TREATMENT

- Consider orotracheal or nasotracheal intubation for airway control in unconscious patient or where respiratory arrest has occurred.
- Positive-pressure ventilation using a bag-valve mask might be of use.
- Monitor and treat, where necessary, for arrhythmias.
- ▶ Start an IV D5W TKO. If signs of hypovolaemia are present use lactated Ringers solution. Fluid overload might create complications.
- Drug therapy should be considered for pulmonary oedema.
- Hypotension with signs of hypovolaemia requires the cautious administration of fluids. Fluid overload might create complications.
- Treat seizures with diazepam.
- Proparacaine hydrochloride should be used to assist eye irrigation.

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SECTION 5 Fire-fighting measures

Extinguishing media

- Water spray or fog.
- Foam.
- Dry chemical powder.

Special hazards arising from the substrate or mixture

Fire Incompatibility Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

Special protective equipment and precautions for fire-fighters

operation protective equipment and procedutions for the highest		
Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water courses. 	
Fire/Explosion Hazard	carbon dioxide (CO2) other pyrolysis products typical of burning organic material. Contains low boiling substance: Closed containers may rupture due to pressure buildup under fire conditions. CARE: Water in contact with hot liquid may cause foaming and a steam explosion with wide scattering of hot oil and possible severe burns. Foaming may cause overflow of containers and may result in possible fire.	

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	 Remove all ignition sources. Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes.
Major Spills	Minor hazard. ▶ Clear area of personnel. ▶ Alert Fire Brigade and tell them location and nature of hazard.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 Handling and storage

Precautions for safe handling Contains low boiling substance: Storage in sealed containers may result in pressure buildup causing violent rupture of containers not rated appropriately. Check for bulging containers. Vent periodically Always release caps or seals slowly to ensure slow dissipation of vapours Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Other information Store in original containers.

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- Keep containers securely sealed.
- Store in a cool, dry, well-ventilated area.

Conditions for safe storage, including any incompatibilities

Suitable container

- ▶ Polyethylene or polypropylene container.
- Packing as recommended by manufacturer.
- Check all containers are clearly labelled and free from leaks.

Dimethyl ether:

- ▶ is a peroxidisable gas
- may be heat and shock sensitive
- is able to form unstable peroxides on prolonged exposure to air
- reacts violently with oxidisers, aluminium hydride, lithium aluminium hydride
- ▶ is incompatible with strong acids, metal salts

Butane / isobutane:

- reacts violently with strong oxidisers, acetylene, halogens, and nitrous oxides
- ▶ does not mix with chlorine dioxide, nitric acid and some plastics
- ▶ may generate electrostatic charges, due to low conductivity, which may ignite vapours. Store butane well away from nickel carbonyl in the presence of oxygen between 20-40°C

Storage incompatibility Propane:

- reacts violently with strong oxidisers, barium peroxide, chlorine dioxide, dichlorine oxide, fluorine etc.
- ▶ Dissolves some plastics, rubbers, and coatings
- ▶ may accumulate static charges which may ignite its vapours

Ethers

- · may react violently with strong oxidising agents and acids.
- \cdot can act as bases.- they form salts with strong acids and addition complexes with Lewis acids; the complex between diethyl ether and boron trifluoride is an example.

· are generally stable to water under neutral conditions and ambient temperatures.

- ▶ The tendency of many ethers to form explosive peroxides is well documented.
- ▶ Ethers lacking non-methyl hydrogen atoms adjacent to the ether link are thought to be relatively safe.
- When solvents have been freed from peroxides (by percolation through a column of activated alumina for example), the absorbed peroxides must promptly be desorbed by treatment with the polar solvents methanol or water, which should be discarded safely.

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
US OSHA Permissible Exposure Limits (PELs) Table Z-1	acetone	Acetone	1000 ppm / 2400 mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	acetone	Acetone	250 ppm / 590 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-2	toluene	Toluene	200 ppm	300 ppm	500 (10 min) ppm	(Z37.12- 1967)
US NIOSH Recommended Exposure Limits (RELs)	toluene	Toluene	100 ppm / 375 mg/m3	560 mg/m3 / 150 ppm	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	benzene	Benzene	1 ppm	5 ppm	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-2	benzene	Benzene	10 ppm	25 ppm	50 (10 min) ppm	(Z37.40- 1969)
US NIOSH Recommended Exposure Limits (RELs)	benzene	Benzene	0.1 ppm	1 ppm	Not Available	Ca; See Appendix A
US OSHA Permissible Exposure Limits (PELs) Table Z-1	ethylbenzene	Ethyl benzene	100 ppm / 435 mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	ethylbenzene	Ethyl benzene	100 ppm / 435 mg/m3	545 mg/m3 / 125 ppm	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	cumene	Cumene	50 ppm / 245 mg/m3	Not Available	Not Available	Skin designation
US NIOSH Recommended Exposure Limits (RELs)	cumene	Cumene	50 ppm / 245 mg/m3	Not Available	Not Available	[skin]
US OSHA Permissible Exposure Limits (PELs) Table Z-1	n-hexane	n-Hexane	500 ppm / 1800 mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	n-hexane	n-Hexane	50 ppm / 180 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	p-tert-butylphenol/ formaldehyde resin	Particulates Not Otherwise Regulated (PNOR)- Total dust	15 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	p-tert-butylphenol/ formaldehyde resin	Particulates Not Otherwise Regulated (PNOR)- Respirable fraction	5 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	p-tert-butylphenol/ formaldehyde resin	Inert or Nuisance Dust: Total Dust	15 mg/m3 / 50 mppcf	Not Available	Not Available	Not Available

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Source	Ingredient	Material name	TWA	STEL	Peak	Notes
US OSHA Permissible Exposure Limits (PELs) Table Z-3	p-tert-butylphenol/ formaldehyde resin	Inert or Nuisance Dust: Respirable fraction	5 mg/m3 / 15 mppcf	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	p-tert-butylphenol/ formaldehyde resin	Particulates not otherwise regulated	Not Available	Not Available	Not Available	See Appendix D
US OSHA Permissible Exposure Limits (PELs) Table Z-2	toluene	Toluene	200 ppm	300 ppm	500 (10 min) ppm	(Z37.12- 1967)
US NIOSH Recommended Exposure Limits (RELs)	toluene	Toluene	100 ppm / 375 mg/m3	560 mg/m3 / 150 ppm	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	isoprene homopolymer	Particulates Not Otherwise Regulated (PNOR)- Respirable fraction	5 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	isoprene homopolymer	Particulates Not Otherwise Regulated (PNOR)- Total dust	15 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	isoprene homopolymer	Inert or Nuisance Dust: Respirable fraction	5 mg/m3 / 15 mppcf	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	isoprene homopolymer	Inert or Nuisance Dust: Total Dust	15 mg/m3 / 50 mppcf	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	isoprene homopolymer	Particulates not otherwise regulated	Not Available	Not Available	Not Available	See Appendix D
US OSHA Permissible Exposure Limits (PELs) Table Z-1	hydrocarbon resin, postpolymerised with maleic anhydride	Particulates Not Otherwise Regulated (PNOR)- Respirable fraction	5 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	hydrocarbon resin, postpolymerised with maleic anhydride	Particulates Not Otherwise Regulated (PNOR)- Total dust	15 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	hydrocarbon resin, postpolymerised with maleic anhydride	Inert or Nuisance Dust: Respirable fraction	5 mg/m3 / 15 mppcf	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	hydrocarbon resin, postpolymerised with maleic anhydride	Inert or Nuisance Dust: Total Dust	15 mg/m3 / 50 mppcf	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	hydrocarbon resin, postpolymerised with maleic anhydride	Particulates not otherwise regulated	Not Available	Not Available	Not Available	See Appendix D
US OSHA Permissible Exposure Limits (PELs) Table Z-1	3,5-bis(butyl)-4- hydroxyhydrocinnamic stearate	Particulates Not Otherwise Regulated (PNOR)- Total dust	15 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	3,5-bis(butyl)-4- hydroxyhydrocinnamic stearate	Particulates Not Otherwise Regulated (PNOR)- Respirable fraction	5 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	3,5-bis(butyl)-4- hydroxyhydrocinnamic stearate	Inert or Nuisance Dust: Total Dust	15 mg/m3 / 50 mppcf	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	3,5-bis(butyl)-4- hydroxyhydrocinnamic stearate	Inert or Nuisance Dust: Respirable fraction	5 mg/m3 / 15 mppcf	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	3,5-bis(butyl)-4- hydroxyhydrocinnamic stearate	Particulates not otherwise regulated	Not Available	Not Available	Not Available	See Appendix D
US OSHA Permissible Exposure Limits (PELs) Table Z-1	naphthenic distillate, light, hydrotreated (mild)	Oil mist, mineral	5 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	C.I. Solvent Red 164	Particulates Not Otherwise Regulated (PNOR)- Respirable fraction	5 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	C.I. Solvent Red 164	Particulates Not Otherwise Regulated (PNOR)- Total dust	15 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	C.I. Solvent Red 164	Inert or Nuisance Dust: Total Dust	15 mg/m3 / 50 mppcf	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	C.I. Solvent Red 164	Inert or Nuisance Dust: Respirable fraction	5 mg/m3 / 15 mppcf	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	C.I. Solvent Red 164	Particulates not otherwise regulated	Not Available	Not Available	Not Available	See Appendix D
US OSHA Permissible Exposure Limits (PELs) Table Z-1	propane	Propane	1000 ppm / 1800 mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	propane	Propane	1000 ppm / 1800 mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	butane	n-Butane	800 ppm / 1900 mg/m3	Not Available	Not Available	Not Available

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Ingredient	TEEL-1	TEEL-2		TEEL-3
acetone	Not Available	Not Available		Not Available
toluene	Not Available	Not Available		Not Available
benzene	Not Available	Not Available		Not Available
ethylbenzene	Not Available	Not Available		Not Available
cumene	Not Available	Not Available		Not Available
Naphtha (petroleum), hydrotreated light	1,000 mg/m3	11,000 mg/m3		66,000 mg/m3
n-hexane	260 ppm	Not Available		Not Available
toluene	Not Available	Not Available		Not Available
naphthenic distillate, light, hydrotreated (mild)	1,100 mg/m3	1,800 mg/m3		40,000 mg/m3
propane	Not Available	Not Available		Not Available
butane	Not Available	Not Available		Not Available
dimethyl ether	3,000 ppm	3800* ppm		7200* ppm
Ingredient	Original IDLH		Revised IDLH	
acetone	2,500 ppm		Not Available	
toluene	500 ppm		Not Available	
benzene	500 ppm		Not Available	
ethylbenzene	Not Available		Not Available	
cumene	Not Available		Not Available	
Naphtha (petroleum), hydrotreated light	Not Available		Not Available	
n-hexane	Not Available		Not Available	
p-tert-butylphenol/ formaldehyde resin	Not Available		Not Available	
water	Not Available		Not Available	
toluene	500 ppm		Not Available	
styrene/ isoprene copolymer	Not Available		Not Available	
isoprene homopolymer	Not Available		Not Available	
Solvent(n-hexane)	Not Available		Not Available	
Antioxidant(2,6-di-t-butyl-4- cresol)	Not Available		Not Available	
hydrocarbon resin, postpolymerised with maleic anhydride	Not Available		Not Available	
3,5-bis(butyl)-4- hydroxyhydrocinnamic stearate	Not Available		Not Available	
Proprietary Rosin Phenolic Resin	Not Available		Not Available	
Proprietary Antioxidant	Not Available		Not Available	
naphthenic distillate, light, hydrotreated (mild)	2,500 mg/m3		Not Available	
C.I. Solvent Red 164	Not Available		Not Available	
2,22,22	Not Available		Not Available	
propane	NOT Available			
butane	Not Available		Not Available	

Exposure controls

Appropriate engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk.
Individual protection measures, such as personal protective equipment	
Eye and face protection	 Safety glasses with side shields. Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent] Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants.
Skin protection	See Hand protection below
Hands/feet protection	 Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber
Body protection	See Other protection below

Overalls.P.V.C apron.Barrier cream.

Other protection

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Respiratory protection

Type AX-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

- Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
 The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Not Available		
Physical state	Compressed Gas	Relative density (Water = 1)	Not Available
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	-18	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	457
Heat of Combustion (kJ/g)	Not Available	Ignition Distance (cm)	Not Available
Flame Height (cm)	Not Available	Flame Duration (s)	Not Available
Enclosed Space Ignition Time Equivalent (s/m3)	Not Available	Enclosed Space Ignition Deflagration Density (g/m3)	Not Available
Nanoform Solubility	Not Available	Nanoform Particle Characteristics	Not Available
Particle Size	Not Available		

SECTION 10 Stability and reactivity

Reactivity	See section 7
Chemical stability	
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 Toxicological information

Information on toxicological effects

a) Acute Toxicity Based on available data, the classification criteria are not met. There is sufficient evidence to classify this material as skin corrosive or irritating. C) Serious Eye Damage/Irritation d) Respiratory or Skin sensitisation e) Mutagenicity Based on available data, the classification criteria are not met. e) Mutagenicity Based on available data, the classification criteria are not met. g) Reproductivity h) STOT - Single Exposure i) Aspiration Hazard Based on available data, the classification criteria as enot met. Based on available data, the classification criteria are not met. There is sufficient evidence to classify this material as toxic to reproductivity There is sufficient evidence to classify this material as toxic to specific organs through single exposure There is sufficient evidence to classify this material as toxic to specific organs through repeated exposure Based on available data, the classification criteria are not met.	•	
c) Serious Eye Damage/Irritation d) Respiratory or Skin sensitisation e) Mutagenicity Based on available data, the classification criteria are not met. e) Mutagenicity Based on available data, the classification criteria are not met. g) Reproductivity h) STOT - Single Exposure i) STOT - Repeated Exposure j) Aspiration Hazard There is sufficient evidence to classify this material as toxic to specific organs through repeated exposure Based on available data, the classification criteria are not met. There is sufficient evidence to classify this material as toxic to reproductivity There is sufficient evidence to classify this material as toxic to specific organs through single exposure i) STOT - Repeated Exposure Based on available data, the classification criteria are not met.	a) Acute Toxicity	Based on available data, the classification criteria are not met.
Damage/Irritation d) Respiratory or Skin sensitisation e) Mutagenicity Based on available data, the classification criteria are not met. e) Mutagenicity Based on available data, the classification criteria are not met. f) Carcinogenicity Based on available data, the classification criteria are not met. g) Reproductivity There is sufficient evidence to classify this material as toxic to reproductivity h) STOT - Single Exposure i) STOT - Repeated Exposure j) Aspiration Hazard There is sufficient evidence to classify this material as toxic to specific organs through repeated exposure Based on available data, the classification criteria are not met.	b) Skin Irritation/Corrosion	There is sufficient evidence to classify this material as skin corrosive or irritating.
sensitisation e) Mutagenicity Based on available data, the classification criteria are not met. f) Carcinogenicity Based on available data, the classification criteria are not met. g) Reproductivity h) STOT - Single Exposure i) STOT - Repeated Exposure j) Aspiration Hazard Based on available data, the classification criteria are not met. There is sufficient evidence to classify this material as toxic to reproductivity There is sufficient evidence to classify this material as toxic to specific organs through single exposure Based on available data, the classification criteria are not met.		There is sufficient evidence to classify this material as eye damaging or irritating
f) Carcinogenicity g) Reproductivity h) STOT - Single Exposure i) STOT - Repeated Exposure j) Aspiration Hazard Based on available data, the classification criteria are not met. There is sufficient evidence to classify this material as toxic to reproductivity There is sufficient evidence to classify this material as toxic to specific organs through single exposure There is sufficient evidence to classify this material as toxic to specific organs through repeated exposure Based on available data, the classification criteria are not met.	,	Based on available data, the classification criteria are not met.
g) Reproductivity There is sufficient evidence to classify this material as toxic to reproductivity There is sufficient evidence to classify this material as toxic to specific organs through single exposure i) STOT - Repeated Exposure j) Aspiration Hazard There is sufficient evidence to classify this material as toxic to specific organs through repeated exposure Based on available data, the classification criteria are not met.	e) Mutagenicity	Based on available data, the classification criteria are not met.
h) STOT - Single Exposure i) STOT - Repeated Exposure There is sufficient evidence to classify this material as toxic to specific organs through single exposure There is sufficient evidence to classify this material as toxic to specific organs through repeated exposure Based on available data, the classification criteria are not met.	f) Carcinogenicity	Based on available data, the classification criteria are not met.
i) STOT - Repeated Exposure There is sufficient evidence to classify this material as toxic to specific organs through repeated exposure Based on available data, the classification criteria are not met.	g) Reproductivity	There is sufficient evidence to classify this material as toxic to reproductivity
j) Aspiration Hazard Based on available data, the classification criteria are not met.	h) STOT - Single Exposure	There is sufficient evidence to classify this material as toxic to specific organs through single exposure
	i) STOT - Repeated Exposure	There is sufficient evidence to classify this material as toxic to specific organs through repeated exposure
	j) Aspiration Hazard	Based on available data, the classification criteria are not met.

The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an Version No: **5.6** Page **9** of **24** Initial Date: **03/01/2025**

PermaGrip PG-107XM, PermaGrip PG-107XMG, PermaGrip PG107XMR

Revision Date: **06/18/2025**Print Date: **06/18/2025**

	lack of co-ordination, and vertigo. When inhaled, polystyrene is virtually non-toxic. High cutting the material may irritate the nose and eyes. Isobutane produces a dose dependent action and at headache, nausea, confusion, incoordination and und The paraffin gases are practically not harmful at low of Inhalation of oil droplets or aerosols may cause discoor Following inhalation, ethers cause lethargy and stupo seizures and possible coma. Material is highly volatile and may quickly form a conductive replace air in breathing zone, acting as a simple asph Inhalation of high concentrations of gas/vapour cause and dizziness, slowing of reflexes, fatigue and inco-or Inhalation of non-toxic gases may cause: CNS effects: headache, confusion, dizziness, stuper respiratory: shortness of breath and rapid breathing cardiovascular: collapse and irregular heart beats	concentrations of high concentrations of high concentrations sindoses. Higher do mfort and may p or. Inhaling lower centrated atmosp yoxiant. This may be lung irritation with dination. por, seizures and ng;	ses may produce reversible brain and nerve depression and irritation. roduce chemical inflammation of the lungs. alkyl ethers results in headache, dizziness, weakness, blurred vision, where in confined or unventilated areas. The vapour may displace and happen with little warning of overexposure. with coughing and nausea, central nervous depression with headache d coma;
Ingestion	and asphyxia may result. The material has NOT been classified by EC Directive of corroborating animal or human evidence. Not normally a hazard due to physical form of product	es or other class	ification systems as 'harmful by ingestion'. This is because of the lack
Skin Contact	The material may accentuate any pre-existing dermat Skin contact is not thought to have harmful health effe following entry through wounds, lesions or abrasions. Open cuts, abraded or irritated skin should not be expentry into the blood-stream, through, for example, cut skin prior to the use of the material and ensure that an	titis condition ects (as classified posed to this mat ts, abrasions or land my external dama	d under EC Directives); the material may still produce health damage rerial esions, may produce systemic injury with harmful effects. Examine the age is suitably protected.
Eye	This material causes serious eye irritation.	roduce irritation	redness and tears
Observi	This material can cause serious damage if one is exp produce severe defects. Ample evidence exists from experimentation that redu Workers exposed to polystyrene converting processes.	osed to it for longued human ferting show disorders	g periods. It can be assumed that it contains a substance which can lity is directly caused by exposure to the material. s of the liver, blood, nervous system and mucous membranes of the
Chronic	childbirth have also been recorded in polystyrene pro- Chronic exposure to alkyl ethers may result in loss of Chronic exposure to benzene may cause headache, the blood changes. Benzene is a myelotoxicant known to humans and animals.	duction workers. appetite, excess fatigue, loss of a suppress bone-	ive thirst, fatigue, and weight loss. ppetite and lassitude with incipient blood effects including anaemia and marrow cell proliferation and to induce haematologic disorders in
Chronic	childbirth have also been recorded in polystyrene pro- Chronic exposure to alkyl ethers may result in loss of Chronic exposure to benzene may cause headache, the blood changes. Benzene is a myelotoxicant known to humans and animals.	duction workers. appetite, excess fatigue, loss of a suppress bone-	ive thirst, fatigue, and weight loss. ppetite and lassitude with incipient blood effects including anaemia and marrow cell proliferation and to induce haematologic disorders in
PermaGrip PG-107XM,	childbirth have also been recorded in polystyrene pro- Chronic exposure to alkyl ethers may result in loss of Chronic exposure to benzene may cause headache, the blood changes. Benzene is a myelotoxicant known to humans and animals.	duction workers. appetite, excess fatigue, loss of a suppress bone-	ive thirst, fatigue, and weight loss. ppetite and lassitude with incipient blood effects including anaemia and marrow cell proliferation and to induce haematologic disorders in
	childbirth have also been recorded in polystyrene pro- Chronic exposure to alkyl ethers may result in loss of Chronic exposure to benzene may cause headache, the blood changes. Benzene is a myelotoxicant known to humans and animals. Chronic inhalation or skin exposure to n-hexane may	duction workers. appetite, excess fatigue, loss of a suppress bone-	ive thirst, fatigue, and weight loss. ppetite and lassitude with incipient blood effects including anaemia and marrow cell proliferation and to induce haematologic disorders in o nerve ends in extremities, e.g. finger, toes with loss of sensation.
PermaGrip PG-107XM, PermaGrip PG-107XMG,	childbirth have also been recorded in polystyrene proc Chronic exposure to alkyl ethers may result in loss of Chronic exposure to benzene may cause headache, t blood changes. Benzene is a myelotoxicant known to humans and animals. Chronic inhalation or skin exposure to n-hexane may TOXICITY Not Available	duction workers. appetite, excess fatigue, loss of a suppress bone- cause damage t	ive thirst, fatigue, and weight loss. ppetite and lassitude with incipient blood effects including anaemia and marrow cell proliferation and to induce haematologic disorders in o nerve ends in extremities, e.g. finger, toes with loss of sensation. IRRITATION Not Available
PermaGrip PG-107XM, PermaGrip PG-107XMG,	childbirth have also been recorded in polystyrene proc Chronic exposure to alkyl ethers may result in loss of Chronic exposure to benzene may cause headache, t blood changes. Benzene is a myelotoxicant known to humans and animals. Chronic inhalation or skin exposure to n-hexane may TOXICITY Not Available TOXICITY	duction workers. appetite, excess fatigue, loss of a suppress bone- cause damage t	petite and lassitude with incipient blood effects including anaemia and marrow cell proliferation and to induce haematologic disorders in o nerve ends in extremities, e.g. finger, toes with loss of sensation. IRRITATION Not Available
PermaGrip PG-107XM, PermaGrip PG-107XMG,	childbirth have also been recorded in polystyrene proc Chronic exposure to alkyl ethers may result in loss of Chronic exposure to benzene may cause headache, I blood changes. Benzene is a myelotoxicant known to humans and animals. Chronic inhalation or skin exposure to n-hexane may TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: 20000 mg/kg ^[2]	duction workers. appetite, excess fatigue, loss of al suppress bone- cause damage t	petite and lassitude with incipient blood effects including anaemia and marrow cell proliferation and to induce haematologic disorders in o nerve ends in extremities, e.g. finger, toes with loss of sensation. IRRITATION Not Available ATION Human): 186300ppm - Mild
PermaGrip PG-107XM, PermaGrip PG-107XMG,	childbirth have also been recorded in polystyrene proc Chronic exposure to alkyl ethers may result in loss of Chronic exposure to benzene may cause headache, to blood changes. Benzene is a myelotoxicant known to humans and animals. Chronic inhalation or skin exposure to n-hexane may TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: 20000 mg/kg ^[2] Inhalation (Mouse) LC50: 44 mg/L4h ^[2]	duction workers. appetite, excess fatigue, loss of al suppress bone- cause damage t IRRIT Eye (I	petite and lassitude with incipient blood effects including anaemia and marrow cell proliferation and to induce haematologic disorders in o nerve ends in extremities, e.g. finger, toes with loss of sensation. IRRITATION Not Available ATION Human): 186300ppm - Mild Human): 500ppm
PermaGrip PG-107XM, PermaGrip PG-107XMG, PermaGrip PG107XMR	childbirth have also been recorded in polystyrene proc Chronic exposure to alkyl ethers may result in loss of Chronic exposure to benzene may cause headache, I blood changes. Benzene is a myelotoxicant known to humans and animals. Chronic inhalation or skin exposure to n-hexane may TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: 20000 mg/kg ^[2]	duction workers. appetite, excess fatigue, loss of a suppress bone- cause damage t IRRIT Eye (I Eye (I	properties and lassitude with incipient blood effects including anaemia and marrow cell proliferation and to induce haematologic disorders in onerve ends in extremities, e.g. finger, toes with loss of sensation. IRRITATION Not Available ATION Human): 186300ppm - Mild Human): 500ppm Rodent - rabbit): 10uL - Mild
PermaGrip PG-107XM, PermaGrip PG-107XMG,	childbirth have also been recorded in polystyrene proc Chronic exposure to alkyl ethers may result in loss of Chronic exposure to benzene may cause headache, to blood changes. Benzene is a myelotoxicant known to humans and animals. Chronic inhalation or skin exposure to n-hexane may TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: 20000 mg/kg ^[2] Inhalation (Mouse) LC50: 44 mg/L4h ^[2]	duction workers. appetite, excess fatigue, loss of a suppress bone- cause damage t IRRIT Eye (I Eye (I Eye (I	pretite and lassitude with incipient blood effects including anaemia and marrow cell proliferation and to induce haematologic disorders in onerve ends in extremities, e.g. finger, toes with loss of sensation. IRRITATION Not Available ATION Human): 186300ppm - Mild Human): 500ppm Rodent - rabbit): 10uL - Mild Rodent - rabbit): 20mg - Severe
PermaGrip PG-107XM, PermaGrip PG-107XMG, PermaGrip PG107XMR	childbirth have also been recorded in polystyrene proc Chronic exposure to alkyl ethers may result in loss of Chronic exposure to benzene may cause headache, to blood changes. Benzene is a myelotoxicant known to humans and animals. Chronic inhalation or skin exposure to n-hexane may TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: 20000 mg/kg ^[2] Inhalation (Mouse) LC50: 44 mg/L4h ^[2]	duction workers. appetite, excess fatigue, loss of a suppress bone- cause damage t IRRIT Eye (I	petite and lassitude with incipient blood effects including anaemia and marrow cell proliferation and to induce haematologic disorders in onerve ends in extremities, e.g. finger, toes with loss of sensation. IRRITATION Not Available ATION Human): 186300ppm - Mild Human): 500ppm Rodent - rabbit): 10uL - Mild Rodent - rabbit): 20mg - Severe Rodent - rabbit): 20mg - Severe
PermaGrip PG-107XM, PermaGrip PG-107XMG, PermaGrip PG107XMR	childbirth have also been recorded in polystyrene proc Chronic exposure to alkyl ethers may result in loss of Chronic exposure to benzene may cause headache, to blood changes. Benzene is a myelotoxicant known to humans and animals. Chronic inhalation or skin exposure to n-hexane may TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: 20000 mg/kg ^[2] Inhalation (Mouse) LC50: 44 mg/L4h ^[2]	duction workers. appetite, excess fatigue, loss of al suppress bone- cause damage t IRRIT Eye (I Ey	properties and lassitude with incipient blood effects including anaemia and marrow cell proliferation and to induce haematologic disorders in onerve ends in extremities, e.g. finger, toes with loss of sensation. IRRITATION Not Available ATION Human): 186300ppm - Mild Human): 500ppm Rodent - rabbit): 10uL - Mild Rodent - rabbit): 20mg - Severe Rodent - rabbit): 20mg/24H - Moderate adverse effect observed (irritating)[1] Rodent - rabbit): 395mg - Mild
PermaGrip PG-107XM, PermaGrip PG-107XMG, PermaGrip PG107XMR	childbirth have also been recorded in polystyrene proc Chronic exposure to alkyl ethers may result in loss of Chronic exposure to benzene may cause headache, to blood changes. Benzene is a myelotoxicant known to humans and animals. Chronic inhalation or skin exposure to n-hexane may TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: 20000 mg/kg ^[2] Inhalation (Mouse) LC50: 44 mg/L4h ^[2]	duction workers. appetite, excess fatigue, loss of a suppress bone- cause damage t IRRIT Eye (I Eye	pretite and lassitude with incipient blood effects including anaemia and marrow cell proliferation and to induce haematologic disorders in onerve ends in extremities, e.g. finger, toes with loss of sensation. IRRITATION Not Available ATION Human): 186300ppm - Mild Human): 500ppm Rodent - rabbit): 10uL - Mild Rodent - rabbit): 20mg - Severe Rodent - rabbit): 20mg/24H - Moderate adverse effect observed (irritating) ^[1] Rodent - rabbit): 395mg - Mild Rodent - rabbit): 395mg - Mild Rodent - rabbit): 500mg/24H - Mild
PermaGrip PG-107XM, PermaGrip PG-107XMG, PermaGrip PG107XMR	childbirth have also been recorded in polystyrene proc Chronic exposure to alkyl ethers may result in loss of Chronic exposure to benzene may cause headache, to blood changes. Benzene is a myelotoxicant known to humans and animals. Chronic inhalation or skin exposure to n-hexane may TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: 20000 mg/kg ^[2] Inhalation (Mouse) LC50: 44 mg/L4h ^[2]	duction workers. appetite, excess fatigue, loss of a suppress bone- cause damage t IRRIT Eye (I Eye	pretite and lassitude with incipient blood effects including anaemia and marrow cell proliferation and to induce haematologic disorders in onerve ends in extremities, e.g. finger, toes with loss of sensation. IRRITATION Not Available ATION Human): 186300ppm - Mild Human): 500ppm Rodent - rabbit): 10uL - Mild Rodent - rabbit): 20mg - Severe Rodent - rabbit): 20mg/24H - Moderate adverse effect observed (irritating) ^[1] Rodent - rabbit): 395mg - Mild Rodent - rabbit): 395mg - Mild Rodent - rabbit): 500mg/24H - Mild
PermaGrip PG-107XM, PermaGrip PG-107XMG, PermaGrip PG107XMR	childbirth have also been recorded in polystyrene proc Chronic exposure to alkyl ethers may result in loss of Chronic exposure to benzene may cause headache, to blood changes. Benzene is a myelotoxicant known to humans and animals. Chronic inhalation or skin exposure to n-hexane may TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: 20000 mg/kg ^[2] Inhalation (Mouse) LC50: 44 mg/L4h ^[2] Oral (Rat) LD50: 5800 mg/kg ^[2]	duction workers. appetite, excess fatigue, loss of al suppress bone- cause damage t IRRIT Eye (I Eye (I Eye (I Eye (I Eye: a Skin (Skin:	pretite and lassitude with incipient blood effects including anaemia and marrow cell proliferation and to induce haematologic disorders in onerve ends in extremities, e.g. finger, toes with loss of sensation. IRRITATION Not Available ATION Human): 186300ppm - Mild Human): 500ppm Rodent - rabbit): 10uL - Mild Rodent - rabbit): 20mg - Severe Rodent - rabbit): 20mg/24H - Moderate adverse effect observed (irritating)[1] Rodent - rabbit): 395mg - Mild Rodent - rabbit): 500mg/24H - Mild
PermaGrip PG-107XM, PermaGrip PG-107XMG, PermaGrip PG107XMR	childbirth have also been recorded in polystyrene proc Chronic exposure to alkyl ethers may result in loss of Chronic exposure to benzene may cause headache, to blood changes. Benzene is a myelotoxicant known to humans and animals. Chronic inhalation or skin exposure to n-hexane may TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: 20000 mg/kg ^[2] Inhalation (Mouse) LC50: 44 mg/L4h ^[2]	duction workers. appetite, excess fatigue, loss of al suppress bone- cause damage t IRRIT Eye (I Eye (I Eye (I Eye (I Eye (I Eye: a Skin (Skin: IRRIT	pretite and lassitude with incipient blood effects including anaemia and marrow cell proliferation and to induce haematologic disorders in onerve ends in extremities, e.g. finger, toes with loss of sensation. IRRITATION Not Available ATION Human): 186300ppm - Mild Human): 500ppm Rodent - rabbit): 10uL - Mild Rodent - rabbit): 20mg - Severe Rodent - rabbit): 20mg/24H - Moderate adverse effect observed (irritating)[1] Rodent - rabbit): 395mg - Mild Rodent - rabbit): 500mg/24H - Mild
PermaGrip PG-107XM, PermaGrip PG-107XMG, PermaGrip PG107XMR	childbirth have also been recorded in polystyrene proc Chronic exposure to alkyl ethers may result in loss of Chronic exposure to benzene may cause headache, it blood changes. Benzene is a myelotoxicant known to humans and animals. Chronic inhalation or skin exposure to n-hexane may TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: 20000 mg/kg ^[2] Inhalation (Mouse) LC50: 44 mg/L4h ^[2] Oral (Rat) LD50: 5800 mg/kg ^[2]	duction workers. appetite, excess fatigue, loss of a suppress bone- cause damage t IRRIT Eye (I Eye	pretite and lassitude with incipient blood effects including anaemia and marrow cell proliferation and to induce haematologic disorders in onerve ends in extremities, e.g. finger, toes with loss of sensation. IRRITATION Not Available ATION Human): 186300ppm - Mild Human): 500ppm Rodent - rabbit): 10uL - Mild Rodent - rabbit): 20mg - Severe Rodent - rabbit): 20mg/24H - Moderate adverse effect observed (irritating) ^[1] Rodent - rabbit): 395mg - Mild Rodent - rabbit): 500mg/24H - Mild mo adverse effect observed (not irritating) ^[1] TATION (Human): 300ppm
PermaGrip PG-107XM, PermaGrip PG-107XMG, PermaGrip PG107XMR	childbirth have also been recorded in polystyrene proc Chronic exposure to alkyl ethers may result in loss of Chronic exposure to benzene may cause headache, it blood changes. Benzene is a myelotoxicant known to humans and animals. Chronic inhalation or skin exposure to n-hexane may TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: 20000 mg/kg ^[2] Inhalation (Mouse) LC50: 44 mg/L4h ^[2] Oral (Rat) LD50: 5800 mg/kg ^[2] TOXICITY Dermal (rabbit) LD50: 12124 mg/kg ^[2]	duction workers. appetite, excess fatigue, loss of a suppress bone-cause damage to the suppress bone-cause d	pretite and lassitude with incipient blood effects including anaemia and marrow cell proliferation and to induce haematologic disorders in onerve ends in extremities, e.g. finger, toes with loss of sensation. IRRITATION Not Available ATION Human): 186300ppm - Mild Human): 500ppm Rodent - rabbit): 10uL - Mild Rodent - rabbit): 20mg - Severe Rodent - rabbit): 20mg/24H - Moderate adverse effect observed (irritating)[1] Rodent - rabbit): 395mg - Mild Rodent - rabbit): 500mg/24H - Mild no adverse effect observed (not irritating)[1] TATION (Human): 300ppm (Rodent - rabbit): 0.1mL
Considered: headaiche, confusion, dizzines, suppor, seizures and coma; heropatronics; verification report potentials; and an applications; and immosors immobilism misses and vomiting. Ingestion alsay dehers may produce stupor, blumare vision, headache, dizziness and irritation of the nose and throat. Respiratory disabilism may be applicated in the separation of alsay dehers may produce stupor. Blumare vision, headache, dizziness and irritation of the nose and throat. Respiratory disabilism as applyish may be Considered an unlikely route of entry in commercial/industrial environments. This material can cause inflammation of the six on contact in some persons. The material may accentuate any pre-existing demantials condition. Skin Contact: Skin Contact: Skin Contact: Skin Contact: This material can cause inflammation of the skin on contact in some persons. The material may skill produce health of between the six of the skin contact in the skin produce the skin produce the skin produce in the skin produce in the skin produce headache, dizziness, and central net system depression. Eye This material can causes serious eye irritation. Eye contact with alloy ethers (xopour or liquid) may produce irritation, redness and tears. Eye contact with alloy ethers (xopour or liquid) may produce irritation, redness and tears. Eye contact with alloy ethers (xopour or liquid) may produce irritation, in contact with skin and if availiowed. This material can cause serious demange to health by produced persoquer through inflation, in contact with skin and if availiowed. This material can cause serious demanges to health by produced persoquer through inflation, in contact with skin and if availiowed. This material can cause serious demanges to health by produced persoquer through inflation, in contact with skin and if availiowed. This material can cause serious demanges to health by produce persoque			
PermaGrip PG-107XM, PermaGrip PG-107XMG, PermaGrip PG107XMR	childbirth have also been recorded in polystyrene proc Chronic exposure to alkyl ethers may result in loss of Chronic exposure to benzene may cause headache, to blood changes. Benzene is a myelotoxicant known to humans and animals. Chronic inhalation or skin exposure to n-hexane may TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: 20000 mg/kg ^[2] Inhalation (Mouse) LC50: 44 mg/L4h ^[2] Oral (Rat) LD50: 5800 mg/kg ^[2] TOXICITY Dermal (rabbit) LD50: 12124 mg/kg ^[2] Inhalation (Rat) LC50: >13350 ppm4h ^[2]	duction workers. appetite, excess fatigue, loss of a suppress bone-cause damage to the suppress bone-cause d	pretite and lassitude with incipient blood effects including anaemia and marrow cell proliferation and to induce haematologic disorders in onerve ends in extremities, e.g. finger, toes with loss of sensation. IRRITATION Not Available ATION Human): 186300ppm - Mild Human): 500ppm Rodent - rabbit): 10uL - Mild Rodent - rabbit): 20mg - Severe Rodent - rabbit): 20mg/24H - Moderate adverse effect observed (irritating) ^[1] Rodent - rabbit): 395mg - Mild Rodent - rabbit): 500mg/24H - Mild Rodent - rabbit): 500mg/34H - Mild Rodent - rabbit): 500mg/34H - Mild Rodent - rabbit): 0.1mL (Rodent - rabbit): 0.1mL (Rodent - rabbit): 0.1mL - Severe (Rodent - rabbit): 100mg/30S - Mild (Rodent - rabbit): 2mg/24H - Severe
PermaGrip PG-107XM, PermaGrip PG-107XMG, PermaGrip PG107XMR	childbirth have also been recorded in polystyrene proc Chronic exposure to alkyl ethers may result in loss of Chronic exposure to benzene may cause headache, to blood changes. Benzene is a myelotoxicant known to humans and animals. Chronic inhalation or skin exposure to n-hexane may TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: 20000 mg/kg ^[2] Inhalation (Mouse) LC50: 44 mg/L4h ^[2] Oral (Rat) LD50: 5800 mg/kg ^[2] TOXICITY Dermal (rabbit) LD50: 12124 mg/kg ^[2] Inhalation (Rat) LC50: >13350 ppm4h ^[2]	duction workers. appetite, excess fatigue, loss of a suppress bone-cause damage to the suppress bone-cause d	pretite and lassitude with incipient blood effects including anaemia and marrow cell proliferation and to induce haematologic disorders in onerve ends in extremities, e.g. finger, toes with loss of sensation. IRRITATION Not Available ATION Human): 186300ppm - Mild Human): 500ppm Rodent - rabbit): 10uL - Mild Rodent - rabbit): 20mg - Severe Rodent - rabbit): 20mg/24H - Moderate adverse effect observed (irritating) ^[1] Rodent - rabbit): 500mg/24H - Mild Rodent - rabbit): 500mg/34H - Mild Rodent - rabbit): 500mg/34H - Mild Rodent - rabbit): 0.1mL (Rodent - rabbit): 0.1mL - Severe (Rodent - rabbit): 0.1mL - Severe (Rodent - rabbit): 100mg/30S - Mild (Rodent - rabbit): 2mg/24H - Severe (Rodent - rabbit): 2mg/24H - Severe (Rodent - rabbit): 870ug - Mild

Skin (Mammal - pig): 250uL/24H - Mild Skin (Rodent - rabbit): 20mg/24H - Moderate Skin (Rodent - rabbit): 435mg - Mild Version No: 5.6 Page 10 of 24

PermaGrip PG-107XM, PermaGrip PG-107XMG, PermaGrip PG107XMR

Initial Date: **03/01/2025** Revision Date: **06/18/2025** Print Date: **06/18/2025**

		Sk	in (Rodent - rabbit): 500mg - N	Moderate	
			in: adverse effect observed (iri		
			in: no adverse effect observed		
	TOXICITY		IRRITATION		
	dermal (mouse) LD50: 48 mg/kg ^[2]		Eye (Rodent - rabbit): 0.1mL		
	Inhalation (Rat) LC50: 43.767 mg/L4h ^[1]		Eye (Rodent - rabbit): 0.1mL -		
	Oral (Rat) LD50: 930 mg/kg ^[2]		Eye (Rodent - rabbit): 2mg/24		
benzene			Eye (Rodent - rabbit): 88mg -		
			Eye: adverse effect observed		
			Skin (Rodent - rabbit): 15mg/2 Skin (Rodent - rabbit): 20mg/2		
			Skin (Rodent - rat): 60uL/8H -		
			Skin: adverse effect observed	***	
	TOXICITY		IRRITATION		
	Dermal (rabbit) LD50: 17800 mg/kg ^[2]		Eye (Rodent - rabbit): 500m	ng - Severe	
ethylbenzene	Inhalation (Rat) LC50: 17.2 mg/l4h ^[2] Skin (Rodent - rabbit			g/24H - Mild	
	Oral (Rat) LD50: 3500 mg/kg ^[2]				
	TOXICITY	IRRIT	ATION		
	Dermal (rabbit) LD50: 2000 mg/kg ^[2]	Eye (F	Rodent - rabbit): 500mg/24H -	Mild	
	Inhalation (Rat) LC50: 39 mg/L4h ^[2]	Eye (F	Rodent - rabbit): 86mg - Mild		
cumene	Oral (Rat) LD50: 1400 mg/kg ^[2]	Eye: r	no adverse effect observed (no	ot irritating) ^[1]	
		Skin (Rodent - rabbit): 100mg/24H -	Moderate	
		Skin (Rodent - rabbit): 10mg/24H - N	Mild	
		Skin: no adverse effect observed (not irritating) ^[1]			
	TOXICITY	IDDI	TATION		
				not irritation [1]	
Naphtha (petroleum), hydrotreated light	Inhalation (Rat) LC50: 0.26 mg/L4h ^[2]	Eye: no adverse effect observed (not irritating) ^[1] Skin: adverse effect observed (irritating) ^[1]			
	Oral (Rat) LD50: 16.75 mg/kg ^[2]	OKIII	. adverse enect observed (into	aurig)	
	Oral (Nat) ED30. 10:73 Highly				
	TOXICITY	IRR	ITATION		
	Dermal (rabbit) LD50: >2000 mg/kg ^[1]	Eye	(Rodent - rabbit): 10mg - Mild	ı	
n-hexane	Inhalation (Rat) LC50: 48000 ppm4h ^[2]	Eve	: no adverse effect observed (not irritating) ^[1]	
	Oral (Rat) LD50: 28710 mg/kg ^[2]		n: no adverse effect observed		
	Clark (valy as of active value)			((101)	
	TOXICITY			IRRITATION	
p-tert-butylphenol/	dermal (rat) LD50: >2000 mg/kg ^[1]			Not Available	
formaldehyde resin	Oral (Rat) LD50: >2000 mg/kg ^[1]				
	TOXICITY			IRRITATION	
water	Oral (Rat) LD50: >90000 mg/kg ^[2]			Not Available	
toluene	TOXICITY	IR	RITATION		
	Dermal (rabbit) LD50: 12124 mg/kg ^[2]	Ey	ve (Human): 300ppm		
	Inhalation (Human) TCLo: 100 ppm ^[2]	Ey	ve (Rodent - rabbit): 0.1mL		
	Inhalation (man) TCLo: 200 ppm ^[2]	Ey	ve (Rodent - rabbit): 0.1mL - Se	evere	
	Inhalation (Rat) LC50: >26700 ppm/1h ^[2]	Ey	ve (Rodent - rabbit): 100mg/30	S - Mild	
	Oral (Human)LDLo: 50 mg/kg ^[2]	Ev	ve (Rodent - rabbit): 2mg/24H	- Severe	
	Oral (Rat) LD50: 636 mg/kg ^[2]		ve (Rodent - rabbit): 870ug - M		
	(,		ve: adverse effect observed (irr		
			kin (Mammal - pig): 250uL/24H		
			kin (Rodent - rabbit): 20mg/24h		

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Skin (Rodent - rabbit): 435mg - Mild Skin (Rodent - rabbit): 500mg - Moderate Skin: adverse effect observed (irritating)[1] Skin: no adverse effect observed (not irritating)^[1] TOXICITY IRRITATION styrene/ isoprene copolymer Not Available Not Available TOXICITY IRRITATION Not Available isoprene homopolymer Skin: adverse effect observed (irritating)^[1] Skin: no adverse effect observed (not irritating)^[1] TOXICITY IRRITATION Solvent(n-hexane) Not Available Not Available TOXICITY IRRITATION Antioxidant(2,6-di-t-butyl-4cresol) Not Available Not Available TOXICITY IRRITATION hydrocarbon resin, postpolymerised with maleic Oral (Rat) LD50: >2000 mg/kg^[1] Eye: no adverse effect observed (not irritating)^[1] anhydride Skin: no adverse effect observed (not irritating)^[1] TOXICITY IRRITATION Eye: no adverse effect observed (not irritating) $^{[1]}$ dermal (rat) LD50: >2000 mg/kg *[2] 3.5-bis(butvl)-4-Skin: no adverse effect observed (not irritating)^[1] Inhalation (Rat)LC50: >1800 mg/m3^[2] hydroxyhydrocinnamic Inhalation (Rat)LCLo: >1.3 mg/l/4h $^{*[2]}$ stearate Intraperitoneal (rat) LD50: >1000 mg/kg $^{\star[2]}$ Oral (Rat) LD50: >10000 mg/kg $^{\star[2]}$ TOXICITY IRRITATION **Proprietary Rosin Phenolic** Not Available Not Available TOXICITY IRRITATION **Proprietary Antioxidant** Not Available Not Available TOXICITY IRRITATION Dermal (rabbit) LD50: >2000 mg/kg^[1] Eye (Rodent - rabbit): 0.1mL Inhalation (Rat) LC50: 2.18 mg/l4h^[2] Eye: no adverse effect observed (not irritating) $^{[1]}$ naphthenic distillate, light, hydrotreated (mild) Skin (Rodent - rabbit): 0.5mL/24H - Moderate Oral (Rat) LD50: >5000 mg/kg^[2] Skin (Rodent - rabbit): 500mg - Severe Skin: no adverse effect observed (not irritating)^[1] TOXICITY IRRITATION Dermal (rabbit) LD50: >10200 mg/kg^[1] Eye: no adverse effect observed (not irritating)^[1] C.I. Solvent Red 164 Oral (Rat) LD50: >5000 mg/kg^[1] Skin: no adverse effect observed (not irritating)^[1] TOXICITY IRRITATION propane Inhalation (Rat) LC50: 364726.819 ppm4h^[2] Not Available TOXICITY IRRITATION Inhalation (Rat) LC50: 658 mg/l4h^[2] Eye: no adverse effect observed (not irritating)^[1] butane Skin: no adverse effect observed (not irritating)[1] dimethyl ether TOXICITY IRRITATION Inhalation (Rat) LC50: >20000 ppm4h^[1] Skin: no adverse effect observed (not irritating)^[1]

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Legend:

1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

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Occupational exposures in the rubber-manufacturing industry are carcinogenic to humans (Group 1).IARC Working Groups
There is sufficient evidence in humans for the carcinogenicity of occupational exposures in the rubber-manufacturing industry. Occupational
exposures in the rubber-manufacturing industry cause leukaemia, lymphoma, and cancers of the urinary bladder, lung, and stomach.
Also, a positive association has been observed between occupational exposures in the rubber-manufacturing industry and cancers of the
prostate, oesophagus, and larynx.IARC Working Group.

The multiple genetic and cytogenetic effects observed among workers employed in the rubber-manufacturing industry provide strong evidence to support genotoxicity as one mechanism for the observed increase in cancer risks. However, due to the complexity and changing nature of the exposure mixture and the potential interactions between exposures in the rubber-manufacturing industry, other mechanisms are also likely to play a role.

ACETONE

For acetone:

The acute toxicity of acetone is low. Acetone is not a skin irritant or sensitizer, but it removes fat from the skin, and it also irritates the eye. Animal testing shows acetone may cause anaemia.

BENZENE

Inhalation (man) TCLo: 150 ppm/1y - I

Data demonstrate that during inhalation exposure, aromatic hydrocarbons undergo substantial partitioning into adipose tissues. Following cessation of exposure, the level of aromatic hydrocarbons in body fats rapidly declines. Thus, the aromatic hydrocarbons are unlikely to bioaccumulate in the body.

ETHYLBENZENE

Liver changes, utheral tract, effects on fertility, foetotoxicity, specific developmental abnormalities (musculoskeletal system) recorded. The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.

Ethylbenzene is readily absorbed when inhaled, swallowed or in contact with the skin. It is distributed throughout the body, and passed out

through urine. It may irritate the skin, eyes and may cause hearing loss if exposed to high doses.

NOTE: Substance has been shown to be mutagenic in at least one assay or belongs to a family of chemicals producing damage or change

NOTE: Substance has been shown to be mutagenic in at least one assay, or belongs to a family of chemicals producing damage or change to cellular DNA.

CUMENE

Cumene is reasonably anticipated to be a human carcinogen based on sufficient evidence of carcinogenicity from studies in experimental animals. Cumene caused tumours at several tissue sites, including lung and liver in mice and kidney in male rats. Several proposed mechanisms of carcinogenesis support the relevance to humans of lung and liver tumours in experimental animals. similar metabolic pathways. There is also evidence that cumene is genotoxic in some tissues, based on findings of DNA damage in rodent lung and liver. Furthermore, mutations of the K-ras oncogene and p53 tumor-suppressor gene observed in cumene-induced lung tumours in mice, along with altered expression of many other genes, resemble molecular alterations found in human lung and other cancers. The relevance of the kidney tumors to cancer in humans is uncertain; there is evidence that a species-specific mechanism not relevant to humans contributes to their induction, but it is possible that other mechanisms relevant to humans, such as genotoxicity, may also contribute to kidney-tumour formation in male rats.

Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant.

For aromatic terpenes: p-cymene and cumene have low toxic potential and are excreted in the urine. At very high doses in animal testing, inco-ordination, damage to the kidneys and lung inflammation, with decrease in thymus weight, occurred. This group of substances does not seem to cause cancer, genetic damage or developmental toxicity and has low potential for reproductive toxicity.

Tenth Annual Report on Carcinogens: Substance anticipated to be Carcinogen

[National Toxicology Program: U.S. Dep. of Health & Human Services 2002]

Most Low Boiling Point Naphthas (LBPNs) have low actute toxicity to oral, dermal and inhalation routes of exposure, and mild to moderate skin and eye irritating effects. However, some heavier 'cracked' LBPNs (LKBPNs with greater olefinic content) have been found to be more irritating to the skin and eyes compared to non-cracked LBPNs.

LBPNs are not known to be sensitising to the skin.

Animal studies examined the effects of short-term and longer-term exposure to LBPNs through inhalation or oral routes. In male rats specifically, exposure to LBPNs resulted in kidney-related issues like increased kidney weight, kidney lesions, and hyaline droplet formation. Animal studies indicate that normal, branched and cyclic paraffins are absorbed from the gastrointestinal tract and that the absorption of n-paraffins is inversely proportional to the carbon chain length, with little absorption above C30. With respect to the carbon chain lengths likely to be present in mineral oil, n-paraffins may be absorbed to a greater extent than iso- or cyclo-paraffins.

The major classes of hydrocarbons are well absorbed into the gastrointestinal tract in various species. In many cases, the hydrophobic hydrocarbons are ingested in association with fats in the diet.

Naphtha (petroleum), hydrotreated light

The High Benzene Naphthas (HBNs) contain mainly benzene but its adverse health effect is more with other components, which may cause adverse health effects involving a variety of organs. They may produce genetic damage as well as effects on reproduction and the unborn baby (generally at levels toxic to the mother). They may also cause cancers.

Petroleum contains aromatic (benzene, toluene, ethyl benzene, napthalene) and aliphatic hydrocarbons (n-hexane), which can result in

Petroleum contains aromatic (benzene, toluene, ethyl benzene, napthalene) and aliphatic hydrocarbons (n-nexane), which can result i many detrimental health effects, including, cancer, tumour formation, hearing loss, and nervous system toxicity.

Animal testing shows breathing in petroleum causes tumours of the liver and kidney; these are however not considered to be relevant in humans. Similarly, exposure to gasoline over a lifetime can cause kidney cancer in animals, but the relevance in humans is questionable. Most studies involving gasoline have shown that gasoline does not cause genetic mutation, including all recent studies in living human subjects (such as in petrol service station attendants).

Animal studies show concentrations of toluene (>0.1%) can cause developmental effects such as lower birth weight and developmental toxicity to the nervous system of the foetus. Other studies show no adverse effects on the foetus.

Prolonged contact with petroleum may result in skin inflammation and make the skin more sensitive to irritation and penetration by other materials.

DHC Solvent Chemie (for EC No.: 926-605-8)

N-HEXANE

The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.

Allergic reactions involving the respiratory tract are usually due to interactions between IgE antibodies and allergens and occur rapidly.

isoprene homopolymer

Allergic potential of the allergen and period of exposure often determine the severity of symptoms. Some people may be genetically more prone than others, and exposure to other irritants may aggravate symptoms.

Attention should be paid to atopic diathesis, characterised by increased susceptibility to nasal inflammation, asthma and eczema.

Exogenous allergic alveolitis is induced essentially by allergen specific immune-complexes of the IgG type; cell-mediated reactions (T lymphocytes) may be involved. Such allergy is of the delayed type with onset up to four hours following exposure.

HYDROCARBON RESIN, POSTPOLYMERISED WITH MALEIC ANHYDRIDE

Oral (-) LD50: 7000-10000 mg/kg Nil reported. [Manufacturer]

3,5-bis(butyl)-4hydroxyhydrocinnamic stearate

For 3,5-bis(butyl)-4-hydroxyhydrocinnamic stearate Teratogenicity/Reproductive Toxicity: 2-Generation study (Rats): The test substance was fed in the diet at concentrations of 0, 500, 1,500 and 5,000 ppm. Treatment of the F0 males and females began when they were six weeks of age, and continued until all F1 litters had been weaned. Direct treatment of the F1 males and females began when they were 4 weeks of age, and continued until all F2 litters had been weaned. Segment II study (Rats): Test substance was administered by gavage to pregnant rats from day 6 to 15 of gestation, inclusive. The concentrations were 0, 150, 500 and 1,000 mg/kg. Bodyweight gain was slightly depressed in the 500 and 1,000 mg/kg dose levels and reduced feed intake was registered in a dose related fashion during the period of administration of

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the test substance. Segment II study (Mice): Test substance was administered by gavage to pregnant mice from day 6 to 15 of gestation, inclusive. The concentrations were 150, 500 and 1,000 mg/kg. The average bodyweight gain as well as feed intake were comparable for all groups. Subchronic Toxicity: (Dogs): In a 3-month toxicity study, Beagle dogs were fed a diet containing 0, 1,000, 3,000 and 10,000 ppm of the test substance. No clinical symptoms or signs of systemic toxicity were observed and no deaths occurred during the experiment. Ophthalmic inspection, hearing test, food consumption, bodyweight gain, mean food conversion, haematology, blood chemistry, gross pathology and histopathology revealed no treatment related effects. (Rats): The test substance was administered to rats as an aerosol (dust) for 6 hours/day, 5 days/week for 3 weeks. The animals were exposed to mean gravimetric concentrations of 23 and 543 mg/m3. There were no reactions to treatment for any of the parameters investigated. Chronic Toxicity/Carcinogenicity: (Mice): Mice were administered 0, 5, 50, 500 ppm of the test substance in the feed, corresponding to a mean daily intake of about 56 mg/kg/day for the highest dose group for 24 months. The only difference seen was reduced survival time for the high dose animals. There was no evidence of an increased tumor incidence. (Rats): In a 104 week/feeding study, rats were treated with the test substance in the diet at levels of 0, 500, 1,500, 5,000 ppm. Reaction to treatment at the various dietary levels was as follows: At 5,000 ppm: a. A higher survival rate among females (Mindfully note: which means a lower survival rate for males). Absorption/Distribution/Excretion Metabolism 10 mg/kg of radiolabeled test substance was administered by gavage to 4 albino rats after a 12-hour fast (water permitted). The animals were then placed in metabolism cages for 168 hours and urine and feces samples were collected. Within 0-48 hours after administration about 73%n of the radioactivity was eliminated from the body. Other Toxicity Data: 4-week oral toxicity study (Young rats): Fifty young (4 week old) rats were treated by gavage with single daily doses of 0, 5, 30, 100 and 300 mg/kg of the test substance for 28 days. The liver was the target organ as indicated by a dose-dependent organ weight increase and by histopathology: at 300 mg/kg a minimal centrilobular hepatocytic hypertrophy was observed. A small number of high dose animals showed clinical chemistry changes, including elevated transaminase activities and cholesterol levels Data show that acute toxicity following oral and topical use of hindered phenols is low. They are not proven to cause mutations. However, long term use may affect the liver, thyroid, kidney and lymph nodes The materials included in the Lubricating Base Oils category are related from both process and physical-chemical perspectives; The potential toxicity of a specific distillate base oil is inversely related to the severity or extent of processing the oil has undergone, since: • The adverse effects of these materials are associated with undesirable components, and • The levels of the undesirable components are inversely related to the degree of processing: • Distillate base oils receiving the same degree or extent of processing will have similar toxicities; • The potential toxicity of residual base oils is independent of the degree of processing the oil receives. NAPHTHENIC DISTILLATE, • The reproductive and developmental toxicity of the distillate base oils is inversely related to the degree of processing. LIGHT, HYDROTREATED Unrefined & mildly refined distillate base oils contain the highest levels of undesirable components, have the largest variation of hydrocarbon (MILD) molecules and have shown the highest potential cancer-causing and mutation-causing activities. Highly and severely refined distillate base oils are produced from unrefined and mildly refined oils by removing or transforming undesirable components. In comparison to unrefined and mildly refined base oils, the highly and severely refined distillate base oils have a smaller range of hydrocarbon molecules and have demonstrated very low mammalian toxicity. The material may cause severe skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin. Repeated exposures may produce severe ulceration. For unrefined and mildly refined distillate base oils: Acute toxicity: Animal testing showed high semilethal doses of >5000 mg/kg body weight and >2 g/kg body weight for exposure by PermaGrip PG-107XM, swallowing or skin contact, respectively. The same material was also reported to be moderately irritating to skin, while not being sensitizing. PermaGrip PG-107XMG, Repeat dose toxicity: Animal testing showed that repeat dose toxicity was mild to moderate to the skin. PermaGrip PG107XMR & Reproductive / developmental toxicity. No studies on developmental toxicity or reproduction are available. Animal testing shows that high NAPHTHENIC DISTILLATE, doses may reduce the body weight of both the mother and the foetus, and increase the rate of soft tissue malformations LIGHT, HYDROTREATED Genetic toxicity: These oils have been found to cause mutations. (MILD) Cancer-causing potential: The general conclusion that can be drawn from animal testing is that these oils may potentially cause skin cancer; however, they have not been found to be associated with an increase in tumours elsewhere in the body. **ACETONE & TOLUENE &** The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the **BENZENE & ETHYLBENZENE** production of vesicles, scaling and thickening of the skin. & CUMENE & toluene Acute toxicity: Humans exposed to high levels of toluene for short periods of time experience adverse central nervous system effects ranging **TOLUENE & toluene** from headaches to intoxication, convulsions, narcosis (sleepiness) and death. When inhaled or swallowed, toluene can cause severe central nervous system depression, and in large doses has a narcotic effect. 60mL has caused death. **BENZENE & NAPHTHENIC** DISTILLATE, LIGHT, WARNING: This substance has been classified by the IARC as Group 1: CARCINOGENIC TO HUMANS. HYDROTREATED (MILD) **ETHYLBENZENE & CUMENE** WARNING: This substance has been classified by the IARC as Group 2B: Possibly Carcinogenic to Humans. p-tert-butylphenol/ formaldehyde resin & The following information refers to contact allergens as a group and may not be specific to this product. isoprene homopolymer & 3,5-Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of bis(butyl)-4contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. hydroxyhydrocinnamic stearate p-tert-butylphenol/ formaldehyde resin & WATER & STYRENE/ ISOPRENE COPOLYMER & isoprene No significant acute toxicological data identified in literature search. homopolymer & C.I. SOLVENT RED 164 & PROPANE **Acute Toxicity** Carcinogenicity Skin Irritation/Corrosion J Reproductivity Serious Eye J v STOT - Single Exposure Damage/Irritation Respiratory or Skin

Legend:

🗶 – Data either not available or does not fill the criteria for classification

✓ – Data available to make classification

STOT - Repeated Exposure

Aspiration Hazard

SECTION 12 Ecological information

sensitisation Mutagenicity ×

Toxicity

PermaGrip PG-107XM,							
PermaGrip PG-107XMG,	Ш	Endpoint	Test Duration (hr)	Species	Value	Source	
•							

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PermaGrip PG107XMR Not Available Not Available Not Available Not Available Not Available Endpoint Test Duration (hr) Species Value Source EC50 48h Crustacea 6098.4mg/L 5 EC50 72h Algae or other aquatic plants 5600-10000mg/L acetone LC50 96h Fish 3744.6-5000.7mg/L 4 96h 9.873-27.684mg/l EC50 Algae or other aquatic plants 4 NOEC(ECx) 12h 0.001mg/L 4 Value **Endpoint** Test Duration (hr) **Species** Source EC50 48h Crustacea 3.78mg/L EC50 72h Algae or other aquatic plants 12.5mg/L 4 toluene EC50 96h Algae or other aquatic plants >376.71mg/L 4 2 NOEC(ECx) 168h 0.74mg/l Crustacea LC50 96h Fish 5-35mg/l 4 Endpoint Test Duration (hr) Species Value Source EC50 48h Crustacea 7.578-13.983mg/L 4 EC50(ECx) 24h Algae or other aquatic plants <0.001mg/L EC50 72h 1 benzene Algae or other aquatic plants 29mg/l 72h 1 ErC50 Algae or other aquatic plants >1360mg/l EC50 96h Algae or other aquatic plants >1360mg/l LC50 96h 2.54-7.217mg/L Test Duration (hr) Value Source Endpoint EC50 48h Crustacea 1.37-4.4mg/l EC50 72h 2.4-9.8ma/L Algae or other aquatic plants 4 ethylbenzene EC50(ECx) 24h Algae or other aquatic plants 0.02-938mg/L 4 EC50 96h Algae or other aquatic plants 1.7-7.6mg/L 4 LC50 96h 3.381-4.075mg/L Endpoint Test Duration (hr) Species Value Source EC50 48h Crustacea 4mg/l 72h 2 EC50 Algae or other aquatic plants 1.29ma/l cumene Crustacea NOEC(ECx) 96h 0.4mg/l 1 LC50 96h Fish 2.7mg/l 2 **Endpoint** Test Duration (hr) **Species** Value Source EC50 Crustacea 0.64mg/l Naphtha (petroleum), LC50 96h Fish 0.11mg/l 2 hydrotreated light EC50 96h 64mg/l 2 Algae or other aquatic plants NOEC(ECx) 504h Crustacea 0.17mg/l 2 Endpoint Test Duration (hr) Species Value Source n-hexane EC50(ECx) 4h Algae or other aquatic plants 0.12mg/L 4 96h 4 LC50 113mg/L Endpoint Test Duration (hr) Species Value Source EC50 48h Crustacea >1.4mg/l 2 p-tert-butylphenol/ EC50 72h 2 Algae or other aquatic plants 1.1ma/l formaldehyde resin NOEC(ECx) 96h Fish 0.18mg/l 2 LC50 96h Fish 0.26mg/l 2 **Endpoint** Test Duration (hr) Species Value Source Not Available Not Available Not Available Not Available Not Available toluene **Endpoint** Test Duration (hr) **Species** Value Source EC50 48h 3.78mg/L 5 EC50 72h Algae or other aquatic plants 12.5mg/L

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	EC50	96	Sh	Alga	e or other aquatic plant	S	>376.71m	g/L	4	
	NOEC(ECx)	16	88h	Crus	tacea		0.74mg/l		2	
	LC50	96	Sh	Fish			5-35mg/l		4	
	Endpoint		Test Duration (hr)		Species	Value		Source	a	
tyrene/ isoprene copolymer	Not Available		Not Available		Not Available	Not Availab	ماد	Not Av		
	Not Available		Not Available		Not Available	TVOCAVAIIAL	ЛС	NOLAV	allabic	
	Endpoint Test Duration (hr)			Species	Value		Source	e		
isoprene homopolymer	Not Available		Not Available		Not Available	Not Availab	ole	Not Av	ailable	
	Endpoint		Test Duration (hr)		Species	Value		Source	e	
Solvent(n-hexane)	Not Available		Not Available		Not Available	Not Availab	ole	Not Av	ailable	
Antioxidant(2,6-di-t-butyl-4-	Endpoint		Test Duration (hr)		Species	Value		Sourc	е	
cresol)	Not Available		Not Available		Not Available	Not Availab	ole	Not Av	ailable	
hooden and an araba	Endpoint		est Duration (hr)		pecies		Value		Source	
hydrocarbon resin, ostpolymerised with maleic	EC50		8h		rustacea		>100r		2	
anhydride	EC50		2h		gae or other aquatic pla		>100r		2	
	NOEC(ECx)	7	2h	Al	gae or other aquatic pla	ints	<1mg	/I	2	
	Endpoint	To	st Duration (hr)	Spec	ies		Value	80.	ırce	
	EC50	72					>30mg/l	1		
3,5-bis(butyl)-4- hydroxyhydrocinnamic	NOEC(ECx)				Algae or other aquatic plants		30mg/l	1		
stearate	LC50	72h 96h		Fish	Algae or other aquatic plants				Available	
	BCF	1008h		Fish			>100mg/l	7	Available	
	ВОГ	10	risii			<1.2-8.4				
Proprietary Posin Phonolic	Endpoint	Test Duration (hr)			Species	Value		Source	e	
Proprietary Rosin Phenolic Resin	Not Available				Not Available Not Availa			Not Av	ailable	
Danwinton, Antionidant	Endpoint Test Duration (hr)				Species		Source	е		
Proprietary Antioxidant	Not Available	e Not Available			Not Available Not Availa		ole	Not Av	ailable	
	Endpoint	To	est Duration (hr)	Sp	ecies		Value		Source	
and the second of the second o	EC50	48	8h	Cru	ustacea		>1000n	ng/l	1	
naphthenic distillate, light, hydrotreated (mild)	ErC50	7:	2h	Alg	Algae or other aquatic plants		>1000mg/l		1	
	EC50	9	6h	Alg	Algae or other aquatic plants			ng/l	1	
	NOEC(ECx)	50	04h	Cru	ustacea		>1mg/l		1	
	Ender - inf		Tool Describe # 1		Punni	1/-1		0		
C.I. Solvent Red 164	Endpoint Not Available		Test Duration (hr)		·				Source Not Available	
	Not Available		Not Available		INUL AVAIIADIE	NOT AVAIIAL	л е	NOT AV	aliable	
	Endpoint		Test Duration (hr)		Species	Value		Source	e	
propane	Not Available		Not Available		Not Available		ole	Not Available		
						Not Availab	-	1.101714		
	Endpoint	Те	st Duration (hr)	Spe	ecies		Value		Source	
	EC50(ECx)	96	h	Alg	ae or other aquatic plar	nts	7.71mg	g/l	2	
butane	EC50	96	h		ae or other aquatic plar		7.71mg		2	
	LC50	96	h	Fis	h		24.11n	ng/l	2	
				Sno	cies	;			Source	
	Endpoint	Te	est Duration (hr)	Spe	Species Crustacea					
	Endpoint EC50	Te		-	stacea		>4400mg	/L	2	
dimethyl ether	-		Bh	Crus	stacea ne or other aquatic plan	ts	>4400mg 154.917n		2	
dimethyl ether	EC50	48	Bh	Crus		ts		ng/l		

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Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

Most ethers are very resistant to hydrolysis, and the rate of cleavage of the carbon-oxygen bond by abiotic processes is expected to be insignificant.

Direct photolysis will not be an important removal process since aliphatic ethers do not absorb light at wavelengths >290 nm

For n-Hexane: Log Kow: 3.17-3.94; Henry s Law Constant: 1.69 atm-m3 mol; Vapor Pressure: 150 mm Hg @ 25 C; Log Koc: 2.90 to 3.61. BOD 5, (if unstated): 2.21; COD: 0.04; ThOD: 3.52.

Atmospheric Fate: n-Hexane is not expected to be directly broken down by sunlight.

For Ketones: Ketones, unless they are alpha, beta--unsaturated ketones, can be considered as narcosis or baseline toxicity compounds.

Aquatic Fate: Hydrolysis of ketones in water is thermodynamically favourable only for low molecular weight ketones. Reactions with water are reversible with no permanent change in the structure of the ketone substrate.

For Butane (Synonym: n-Butane): Log Kow: 2.89; Koc: 450-900; Henry s Law Constant: 0.95 atm-cu m/mole, Vapor Pressure: 1820 mm Hg; BCF: 1.9.

Atmospheric Fate: Butane is expected to exist only as a gas in the ambient atmosphere. Gas-phase n-butane is degraded in the atmosphere by reaction with hydroxyl radicals; the half-life for this reaction in air is estimated to be 6.3 days, (@ 25 C).

For Propane: Koc 460. log

Kow 2.36.

Henry's Law constant of 7.07x10-1 atm-cu m/mole, derived from its vapour pressure, 7150 mm Hg, and water solubility, 62.4 mg/L.

For Acetone:

log Kow : -0.24;

Half-life (hr) air : 312-1896; Half-life (hr) H2O surface water : 20; Henry's atm m3 /mol : 3.67E-05 BOD 5: 0.31-1.76,46-55%

COD: 1.12-2.07 ThOD: 2.2BCF: 0.69

Environmental Fate: The relatively long half-life allows acetone to be transported long distances from its emission source.

Atmospheric Fate: Acetone preferentially locates in the air compartment when released to the environment.

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
acetone	LOW (Half-life = 14 days)	MEDIUM (Half-life = 116.25 days)
toluene	LOW (Half-life = 28 days)	LOW (Half-life = 4.33 days)
benzene	HIGH (Half-life = 720 days)	LOW (Half-life = 20.88 days)
ethylbenzene	HIGH (Half-life = 228 days)	LOW (Half-life = 3.57 days)
cumene	HIGH	HIGH
n-hexane	LOW	LOW
water	LOW	LOW
toluene	LOW (Half-life = 28 days)	LOW (Half-life = 4.33 days)
isoprene homopolymer	LOW	LOW
3,5-bis(butyl)-4- hydroxyhydrocinnamic stearate	HIGH	HIGH
propane	LOW	LOW
butane	LOW	LOW
dimethyl ether	LOW	LOW

Bioaccumulative potential

po	
Ingredient	Bioaccumulation
acetone	LOW (BCF = 0.69)
toluene	LOW (BCF = 90)
benzene	HIGH (BCF = 4360)
ethylbenzene	LOW (BCF = 79.43)
cumene	LOW (BCF = 35.5)
n-hexane	MEDIUM (LogKOW = 3.9)
water	LOW (LogKOW = -1.38)
toluene	LOW (BCF = 90)
isoprene homopolymer	LOW (LogKOW = 2.5803)
3,5-bis(butyl)-4- hydroxyhydrocinnamic stearate	LOW (BCF = 12)
propane	LOW (LogKOW = 2.36)
butane	LOW (LogKOW = 2.89)
dimethyl ether	LOW (LogKOW = 0.1)

Mobility in soil

Ingredient	Mobility
acetone	HIGH (Log KOC = 1.981)
toluene	LOW (Log KOC = 268)
benzene	LOW (Log KOC = 165.5)
ethylbenzene	LOW (Log KOC = 517.8)
cumene	LOW (Log KOC = 817.2)
n-hexane	LOW (Log KOC = 149)
toluene	LOW (Log KOC = 268)

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Ingredient	Mobility
isoprene homopolymer	LOW (Log KOC = 67.7)
3,5-bis(butyl)-4- hydroxyhydrocinnamic stearate	LOW (Log KOC = 734400000)
propane	LOW (Log KOC = 23.74)
butane	LOW (Log KOC = 43.79)
dimethyl ether	HIGH (Log KOC = 1.292)

Other adverse effects

One or more ingredients within this SDS has the potential of causing ozone depletion and/or photochemical ozone creation.

SECTION 13 Disposal considerations

Waste treatment methods

Product / Packaging disposal

- ▶ Recycle wherever possible or consult manufacturer for recycling options.
- Consult State Land Waste Authority for disposal.
- ▶ Bury or incinerate residue at an approved site.

SECTION 14 Transport information

Labels Required



Marine Pollutant



Shipping container, transport vehicle placarding, and labeling may vary from the below information. This depends on the quantity shipped, the applicability of excepted quantity requirements, limited quantity requirements, and/or special provisions according to US DOT, IATA and IMDG regulations. In case of reshipment, it is the responsibility of the shipper to determine the appropriate labels and markings in accordance with applicable transport regulations.

Land transport (DOT)

14.1. UN number or ID number	3501				
14.2. UN proper shipping name	Chemical under pressu	Chemical under pressure, flammable, n.o.s. (contains dimethyl ether, butane and propane)			
14.3. Transport hazard class(es)	Class Subsidiary Hazard				
14.4. Packing group	Not Applicable				
14.5. Environmental hazard	Environmentally hazardous				
14.6. Special precautions for user	Hazard Label Special provisions	2.1 362, T50, TP40			

Air transport (ICAO-IATA / DGR)

	,			
14.1. UN number	3501			
14.2. UN proper shipping name	Chemical under pressure, flammable, n.o.s. * (contains dimethyl ether, butane and propane)			
	ICAO/IATA Class	2.1		
14.3. Transport hazard class(es)	ICAO / IATA Subsidiary Hazard	Not Applicable		
Class(es)	ERG Code	10L		
14.4. Packing group	Not Applicable			
14.5. Environmental hazard	Environmentally hazardous	Environmentally hazardous		
	Special provisions		A1 A187	
	Cargo Only Packing Instructions		218	
	Cargo Only Maximum Qty / Pack		75 kg	
14.6. Special precautions for user	Passenger and Cargo Packing Instructions		Forbidden	
usei	Passenger and Cargo Maximum Qty / Pack		Forbidden	
	Passenger and Cargo Limited Quantity Packing Instructions		Forbidden	
	Passenger and Cargo Limited Maximum Qty / Pack		Forbidden	

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14.1. UN number	3501			
14.2. UN proper shipping name	CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. (contains dimethyl ether, butane and propane)			
14.3. Transport hazard class(es)	IMDG Class	2.1		
	IMDG Subsidiary Ha	zard Not A	pplicable	
14.4. Packing group	Not Applicable			
14.5 Environmental hazard	Marine Pollutant	Marine Pollutant		
14.6. Special precautions for user	EMS Number	F-D , S-U		
	Special provisions	274 362		
	Limited Quantities	0		

14.7. Maritime transport in bulk according to IMO instruments

14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
acetone	Not Available
toluene	Not Available
benzene	Not Available
ethylbenzene	Not Available
cumene	Not Available
Naphtha (petroleum), hydrotreated light	Not Available
n-hexane	Not Available
p-tert-butylphenol/ formaldehyde resin	Not Available
water	Not Available
toluene	Not Available
styrene/ isoprene copolymer	Not Available
isoprene homopolymer	Not Available
Solvent(n-hexane)	Not Available
Antioxidant(2,6-di-t-butyl-4-cresol)	Not Available
hydrocarbon resin, postpolymerised with maleic anhydride	Not Available
3,5-bis(butyl)-4- hydroxyhydrocinnamic stearate	Not Available
Proprietary Rosin Phenolic Resin	Not Available
Proprietary Antioxidant	Not Available
naphthenic distillate, light, hydrotreated (mild)	Not Available
C.I. Solvent Red 164	Not Available
propane	Not Available
butane	Not Available
dimethyl ether	Not Available

14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
acetone	Not Available
toluene	Not Available
benzene	Not Available
ethylbenzene	Not Available
cumene	Not Available
Naphtha (petroleum), hydrotreated light	Not Available
n-hexane	Not Available
p-tert-butylphenol/ formaldehyde resin	Not Available
water	Not Available
toluene	Not Available
styrene/ isoprene copolymer	Not Available
isoprene homopolymer	Not Available
Solvent(n-hexane)	Not Available

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Product name	Ship Type
Antioxidant(2,6-di-t-butyl-4-cresol)	Not Available
hydrocarbon resin, postpolymerised with maleic anhydride	Not Available
3,5-bis(butyl)-4- hydroxyhydrocinnamic stearate	Not Available
Proprietary Rosin Phenolic Resin	Not Available
Proprietary Antioxidant	Not Available
naphthenic distillate, light, hydrotreated (mild)	Not Available
C.I. Solvent Red 164	Not Available
propane	Not Available
butane	Not Available
dimethyl ether	Not Available

SECTION 15 Regulatory information

Safety, health and environmental regulations / legislation specific for the substance or mixture

acetone is found on the following regulatory lists

- US Massachusetts Right To Know Listed Chemicals
- US New Jersey Right to Know Special Health Hazard Substance List (SHHSL): Flammables
- US New Jersey Right to Know Hazardous Substances
- US Pennsylvania Hazardous Substance List
- US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs)
- US DOE Temporary Emergency Exposure Limits (TEELs)
- US Drug Enforcement Administration (DEA) List I and II Regulated Chemicals
- US EPA Integrated Risk Information System (IRIS)
- US New York City Community Right-to-Know: List of Hazardous Substances
- US NIOSH Recommended Exposure Limits (RELs)
- US OSHA Permissible Exposure Limits (PELs) Table Z-1
- US Toxic Substances Control Act (TSCA) Chemical Substance Inventory
- US TSCA Section 4/12 (b) Sunset Dates/Status

toluene is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic

- US California Hazardous Air Pollutants Identified as Toxic Air Contaminants
- US California Proposition 65 Maximum Allowable Dose Levels (MADLs) for Chemicals Causing Reproductive Toxicity
- US California Proposition 65 Reproductive Toxicity
- US California Safe Drinking Water and Toxic Enforcement Act of 1986 Proposition 65 List
- US Massachusetts Right To Know Listed Chemicals
- US New Jersey Right to Know Hazardous Substances
- US Pennsylvania Hazardous Substance List
- US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs)
- US Clean Air Act Hazardous Air Pollutants
- US CWA (Clean Water Act) List of Hazardous Substances
- US CWA (Clean Water Act) Priority Pollutants
- US CWA (Clean Water Act) Toxic Pollutants
- ${\tt US\ DOE\ Temporary\ Emergency\ Exposure\ Limits\ (TEELs)}$
- US Drug Enforcement Administration (DEA) List I and II Regulated Chemicals
- US EPA Integrated Risk Information System (IRIS)
- US EPCRA Section 313 Chemical List
- US New York City Community Right-to-Know: List of Hazardous Substances
- US NIOSH Recommended Exposure Limits (RELs)
- US OSHA Permissible Exposure Limits (PELs) Table Z-2
- US Toxic Substances Control Act (TSCA) Chemical Substance Inventory

benzene is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 1: Carcinogenic to humans

- US California Hazardous Air Pollutants Identified as Toxic Air Contaminants
- US California Proposition 65 Carcinogens
- US California Proposition 65 Maximum Allowable Dose Levels (MADLs) for Chemicals Causing Reproductive Toxicity
- US California Proposition 65 No Significant Risk Levels (NSRLs) for Carcinogens
- US California Proposition 65 Reproductive Toxicity
- US California Safe Drinking Water and Toxic Enforcement Act of 1986 Proposition 65 List
- US California Substances Identified As Toxic Air Contaminants
- US Massachusetts Right To Know Listed Chemicals
- US New Jersey Right to Know Special Health Hazard Substance List (SHHSL): Carcinogens
- US New Jersey Right to Know Special Health Hazard Substance List (SHHSL): Flammables
- ${\tt US-New\ Jersey\ Right\ to\ Know-Special\ Health\ Hazard\ Substance\ List\ (SHHSL):\ Mutagens}$
- US New Jersey Right to Know Hazardous Substances
- US Pennsylvania Hazardous Substance List
- US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs)

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US Clean Air Act - Hazardous Air Pollutants

US CWA (Clean Water Act) - List of Hazardous Substances

US CWA (Clean Water Act) - Priority Pollutants

US CWA (Clean Water Act) - Toxic Pollutants

US DOE Temporary Emergency Exposure Limits (TEELs)

US EPA Carcinogens Listing

US EPA Drinking Water Treatability Database

US EPA Integrated Risk Information System (IRIS)

US EPA IRIS Carcinogens

US EPCRA Section 313 Chemical List

US National Toxicology Program (NTP) 15th Report Part A Known to be Human Carcinogens

US New York City Community Right-to-Know: List of Hazardous Substances

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Carcinogens Listing

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US OSHA Permissible Exposure Limits (PELs) Table Z-2

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

ethylbenzene is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 2B: Possibly carcinogenic to humans

US - California Hazardous Air Pollutants Identified as Toxic Air Contaminants

US - California Proposition 65 - Carcinogens

US - California Proposition 65 - No Significant Risk Levels (NSRLs) for Carcinogens

US - California Safe Drinking Water and Toxic Enforcement Act of 1986 - Proposition 65 List

US - Massachusetts - Right To Know Listed Chemicals

US - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL): Carcinogens

US - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL): Flammables

US - New Jersey Right to Know Hazardous Substances

US - Pennsylvania - Hazardous Substance List

US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs)

US Clean Air Act - Hazardous Air Pollutants

US CWA (Clean Water Act) - List of Hazardous Substances

US CWA (Clean Water Act) - Priority Pollutants

US CWA (Clean Water Act) - Toxic Pollutants

US DOE Temporary Emergency Exposure Limits (TEELs)

US EPA Integrated Risk Information System (IRIS)

US EPCRA Section 313 Chemical List

US New York City Community Right-to-Know: List of Hazardous Substances

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

cumene is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 2B: Possibly carcinogenic to humans

US - California Hazardous Air Pollutants Identified as Toxic Air Contaminants

US - California Proposition 65 - Carcinogens

US - California Safe Drinking Water and Toxic Enforcement Act of 1986 - Proposition 65 List US - Massachusetts - Right To Know Listed Chemicals

US - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL); Flammables

US - New Jersey Right to Know Hazardous Substances

US - Pennsylvania - Hazardous Substance List

US Clean Air Act - Hazardous Air Pollutants

US DOE Temporary Emergency Exposure Limits (TEELs)

US EPA Integrated Risk Information System (IRIS)

US EPCRA Section 313 Chemical List

US National Toxicology Program (NTP) 15th Report Part B. Reasonably Anticipated to be a Human Carcinogen

US New York City Community Right-to-Know: List of Hazardous Substances

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US TSCA Section 4/12 (b) - Sunset Dates/Status

Naphtha (petroleum), hydrotreated light is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic

US DOE Temporary Emergency Exposure Limits (TEELs)

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

n-hexane is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

US - California Hazardous Air Pollutants Identified as Toxic Air Contaminants

US - California Proposition 65 - Maximum Allowable Dose Levels (MADLs) for Chemicals Causing Reproductive Toxicity

US - California Proposition 65 - Reproductive Toxicity

US - California Safe Drinking Water and Toxic Enforcement Act of 1986 - Proposition 65 List

US - Massachusetts - Right To Know Listed Chemicals

US - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL): Flammables

US - New Jersey Right to Know Hazardous Substances

US - Pennsylvania - Hazardous Substance List

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US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs)

US Clean Air Act - Hazardous Air Pollutants

US DOE Temporary Emergency Exposure Limits (TEELs)

US EPA Integrated Risk Information System (IRIS)

US EPCRA Section 313 Chemical List

US New York City Community Right-to-Know: List of Hazardous Substances

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

p-tert-butylphenol/ formaldehyde resin is found on the following regulatory lists

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

US - Alaska Air Quality Control - Concentrations Triggering an Air Quality Episode for Air Pollutants Other Than PM-2.5

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US OSHA Permissible Exposure Limits (PELs) Table Z-3

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

water is found on the following regulatory lists

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

toluene is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic

US - California Hazardous Air Pollutants Identified as Toxic Air Contaminants

US - California Proposition 65 - Maximum Allowable Dose Levels (MADLs) for Chemicals Causing Reproductive Toxicity

US - California Proposition 65 - Reproductive Toxicity

US - California Safe Drinking Water and Toxic Enforcement Act of 1986 - Proposition 65 List

US - Massachusetts - Right To Know Listed Chemicals

US - New Jersey Right to Know Hazardous Substances

US - Pennsylvania - Hazardous Substance List

US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs)

US Clean Air Act - Hazardous Air Pollutants

US CWA (Clean Water Act) - List of Hazardous Substances

US CWA (Clean Water Act) - Priority Pollutants

US CWA (Clean Water Act) - Toxic Pollutants

US DOE Temporary Emergency Exposure Limits (TEELs)

US Drug Enforcement Administration (DEA) List I and II Regulated Chemicals

US EPA Integrated Risk Information System (IRIS)

US EPCRA Section 313 Chemical List

US New York City Community Right-to-Know: List of Hazardous Substances

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Permissible Exposure Limits (PELs) Table Z-2

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

styrene/ isoprene copolymer is found on the following regulatory lists

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

isoprene homopolymer is found on the following regulatory lists

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

US - Alaska Air Quality Control - Concentrations Triggering an Air Quality Episode for Air Pollutants Other Than PM-2.5

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US OSHA Permissible Exposure Limits (PELs) Table Z-3

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

Solvent(n-hexane) is found on the following regulatory lists

Not Applicable

Antioxidant(2,6-di-t-butyl-4-cresol) is found on the following regulatory lists

Not Applicable

hydrocarbon resin, postpolymerised with maleic anhydride is found on the following regulatory lists

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

US - Alaska Air Quality Control - Concentrations Triggering an Air Quality Episode for Air Pollutants Other Than PM-2.5

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US OSHA Permissible Exposure Limits (PELs) Table Z-3

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

3,5-bis(butyl)-4-hydroxyhydrocinnamic stearate is found on the following regulatory lists

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

US - Alaska Air Quality Control - Concentrations Triggering an Air Quality Episode for Air Pollutants Other Than PM-2.5

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US OSHA Permissible Exposure Limits (PELs) Table Z-3

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

Proprietary Rosin Phenolic Resin is found on the following regulatory lists

Not Applicable

Proprietary Antioxidant is found on the following regulatory lists

Not Applicable

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naphthenic distillate, light, hydrotreated (mild) is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 1: Carcinogenic to humans

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic

US - Massachusetts - Right To Know Listed Chemicals

US - Pennsylvania - Hazardous Substance List

US DOE Temporary Emergency Exposure Limits (TEELs)

US National Toxicology Program (NTP) 15th Report Part A Known to be Human Carcinogens

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

C.I. Solvent Red 164 is found on the following regulatory lists

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

US - Alaska Air Quality Control - Concentrations Triggering an Air Quality Episode for Air Pollutants Other Than PM-2.5

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US OSHA Permissible Exposure Limits (PELs) Table Z-3

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

propane is found on the following regulatory lists

US - Massachusetts - Right To Know Listed Chemicals

US - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL): Flammables

US - New Jersey Right to Know Hazardous Substances

US - Pennsylvania - Hazardous Substance List

US Department of Homeland Security (DHS) - Chemical Facility Anti-Terrorism Standards (CFATS) - Chemicals of Interest

US DOE Temporary Emergency Exposure Limits (TEELs)

US New York City Community Right-to-Know: List of Hazardous Substances

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

butane is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

US - Massachusetts - Right To Know Listed Chemicals

US - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL): Flammables

US - New Jersey Right to Know Hazardous Substances

US - Pennsylvania - Hazardous Substance List

US Department of Homeland Security (DHS) - Chemical Facility Anti-Terrorism Standards (CFATS) - Chemicals of Interest

US DOE Temporary Emergency Exposure Limits (TEELs)

US New York City Community Right-to-Know: List of Hazardous Substances

US NIOSH Recommended Exposure Limits (RELs)

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

dimethyl ether is found on the following regulatory lists

US - Massachusetts - Right To Know Listed Chemicals

US - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL): Flammables

US - New Jersey Right to Know Hazardous Substances

US - Pennsylvania - Hazardous Substance List

US AIHA Workplace Environmental Exposure Levels (WEELs)

US Department of Homeland Security (DHS) - Chemical Facility Anti-Terrorism Standards (CFATS) - Chemicals of Interest

US DOE Temporary Emergency Exposure Limits (TEELs)

US New York City Community Right-to-Know: List of Hazardous Substances

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US Toxicology Excellence for Risk Assessment (TERA) Workplace Environmental Exposure Levels (WEEL)

Additional Regulatory Information

Not Applicable

Federal Regulations

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 311/312 hazard categories

Flammable (Gases, Aerosols, Liquids, or Solids)	No
Gas under pressure	Yes
Explosive	No
Self-heating	No
Pyrophoric (Liquid or Solid)	No
Pyrophoric Gas	No
Corrosive to metal	No
Oxidizer (Liquid, Solid or Gas)	No
Organic Peroxide	No
Self-reactive	No
In contact with water emits flammable gas	No
Combustible Dust	No
Carcinogenicity	No
Acute toxicity (any route of exposure)	No

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Reproductive toxicity	
Skin Corrosion or Irritation	Yes
Respiratory or Skin Sensitization	No
Serious eye damage or eye irritation	
Specific target organ toxicity (single or repeated exposure)	
Aspiration Hazard	No
Germ cell mutagenicity	No
Simple Asphyxiant	Yes
Hazards Not Otherwise Classified	No

US. EPA CERCLA Hazardous Substances and Reportable Quantities (40 CFR 302.4)

Name	Reportable Quantity in Pounds (lb)	Reportable Quantity in kg	
acetone	5000	2270	
toluene	1000	454	
benzene	10	4.54	
ethylbenzene	1000	454	
cumene	5000	2270	
n-hexane	5000	2270	
toluene	1000	454	

US. EPCRA Section 313 Toxic Release Inventory (TRI) (40 CFR 372)

This product contains the following EPCRA section 313 chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know-Act of 1986 (40 CFR 372):

%[weight]	%[weight] Name			
<0.025197	toluene			
<0.000252	benzene			
0.000266-0.000311	ethylbenzene			
<0.000252	cumene			
<0.025197	n-hexane			
3.110822	toluene			
	<0.025197 <0.000252 0.000266-0.000311 <0.000252 <0.025197			

This information must be included in all SDSs that are copied and distributed for this material.

Additional Federal Regulatory Information

Not Applicable

State Regulations

US. California Proposition 65



MARNING: This product can expose you to chemicals including benzene, ethylbenzene, cumene, which are known to the State of California to cause cancer, and toluene, benzene, n-hexane, toluene, which are known to the State of California to cause birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov

Additional State Regulatory Information

Not Applicable

National Inventory Status

National Inventory	Status		
Australia - AIIC / Australia Non- Industrial Use	Yes		
Canada - DSL	Yes		
Canada - NDSL	No (acetone; toluene; benzene; ethylbenzene; cumene; Naphtha (petroleum), hydrotreated light; n-hexane; p-tert-butylphenol/ formaldehyde resin; water; toluene; styrene/ isoprene copolymer; isoprene homopolymer; hydrocarbon resin, postpolymerised with maleic anhydride; 3,5-bis(butyl)-4-hydroxyhydrocinnamic stearate; naphthenic distillate, light, hydrotreated (mild); C.I. Solvent Red 164; propane; butane; dimethyl ether)		
China - IECSC	Yes		
Europe - EINEC / ELINCS / NLP	No (styrene/ isoprene copolymer; isoprene homopolymer)		
Japan - ENCS	No (Naphtha (petroleum), hydrotreated light; C.I. Solvent Red 164)		
Korea - KECI	Yes		
New Zealand - NZIoC	Yes		
Philippines - PICCS	Yes		
USA - TSCA	All chemical substances in this product have been designated as TSCA Inventory 'Active'		
Taiwan - TCSI	Yes		
Mexico - INSQ	No (p-tert-butylphenol/ formaldehyde resin; styrene/ isoprene copolymer; naphthenic distillate, light, hydrotreated (mild); C.I. Solvent Red 164)		
Vietnam - NCI	Yes		
Russia - FBEPH	No (C.I. Solvent Red 164)		
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.		

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SECTION 16 Other information

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CONTACT POINT

SDS Version Summary

Version	Date of Update	Sections Updated
4.6	06/18/2025	Toxicological information - Acute Health (eye), Toxicological information - Acute Health (inhaled), Toxicological information - Acute Health (swallowed), Toxicological information - Chronic Health, Hazards identification - Classification, Disposal considerations - Disposal, Exposure controls / personal protection - Engineering Control, Ecological Information - Environmental, Exposure controls / personal protection - Exposure Standard, Firefighting measures - Fire Fighter (extinguishing media), Firefighting measures - Fire Fighter (fire/explosion hazard), Firefighting measures - Fire Fighter (fire fighting), First Aid measures - First Aid (eye), First Aid measures - First Aid (inhaled), First Aid measures - First Aid (skin), First Aid measures - First Aid (swallowed), Handling and storage - Handling Procedure, Composition / information on ingredients - Ingredients, Stability and reactivity - Instability Condition, Exposure controls / personal protection (other), Exposure controls / personal protection (exposure controls / personal protection (exposure controls / personal protection (hands/feet), Accidental release measures - Spills (major), Accidental release measures - Spills (minor), Handling and storage - Storage (suitable container), Transport information - Transport

Other information

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios.

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