

ISOPROPYL ALCOHOL

Version 1.0	Revision Date: 10/24/2019	SDS Number: 5207417-00001	Date of last issue: - Date of first issue: 10/24/2019				
SECTION	1. IDENTIFICATION						
Produ	ict name	: ISOPROPYL	ALCOHOL				
Produ	ict code	: 0890997348	0890997348				
Manu	facturer or supplier'	s details					
Comp	any name of supplier	: Wurth USA In	с.				
Addre	SS	: 93 Grant St. Ramsey, NJ	: 93 Grant St. Ramsey, NJ 07446				
Telep	hone	: (201) 825-271	0				
Telefa	ах	: (201) 825-164	(201) 825-1643				
Emerg	gency telephone	: +1 800 255 39	024				
E-mai	l address	: prodsafe@wu	: prodsafe@wuerth.com				
Reco	mmended use of the	chemical and restr	ictions on use				
Recor	mmended use	: Additive Solvent					

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accord Flammable liquids	dan :	ce with 29 CFR 1910.1200 Category 2
Eye irritation	:	Category 2A
Specific target organ toxicity - single exposure	:	Category 3
GHS label elements Hazard pictograms	:	
Signal Word	:	Danger
Hazard Statements	:	H225 Highly flammable liquid and vapor. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.
Precautionary Statements	:	Prevention: P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P233 Keep container tightly closed.



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		ment. P242 Use only P243 Take pred P261 Avoid bre P264 Wash ski P271 Use only	osion-proof electrical/ ventilating/ lighting/ equip- non-sparking tools. cautionary measures against static discharge. eathing mist or vapors. n thoroughly after handling. outdoors or in a well-ventilated area. tective gloves/ eye protection/ face protection.	
		all contaminate P304 + P340 + and keep comf CENTER/docto P305 + P351 + for several minuto to do. Continue	P361 + P353 IF ON SKIN (or hair): Take off immediately minated clothing. Rinse skin with water/shower. P340 + P312 IF INHALED: Remove person to fresh air comfortable for breathing. Call a POISON R/doctor if you feel unwell. P351 + P338 IF IN EYES: Rinse cautiously with water ral minutes. Remove contact lenses, if present and easy	
		Storage:		
		P403 + P235 S P405 Store locl	tore in a well-ventilated place. Keep cool. ked up.	
		Disposal:		
		P501 Dispose (of contents/ container to an approved waste dis-	

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Substance
Substance name	:	Propan-2-ol
CAS-No.	:	67-63-0

Components

Chemical name	CAS-No.	Concentration (% w/w)					
Propan-2-ol	67-63-0	>= 90 - <= 100					
Actual concentration is withhold as a trade secret							

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	If inhaled, remove to fresh air.



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		G	et medical atten	tion if symptoms occur.		
In case of skin contact		R	 In case of contact, immediately flush skin with plenty of wate Remove contaminated clothing and shoes. Get medical attention if symptoms occur. 			
In case of eye contact		fc If	In case of contact, immediately flush eyes with plenty of wa for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention.			
If swallowed		G	If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.			
and	Most important symptoms and effects, both acute and delayed		auses serious e lay cause drows	ye irritation. iness or dizziness.		
Prote	ection of first-aiders	: First Aid responders should pay attention to self-protection and use the recommended personal protective equipment when the potential for exposure exists (see section 8).				
Note	s to physician	: Т	reat symptomation	cally and supportively.		

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during fire fighting	:	Do not use a solid water stream as it may scatter and spread fire. Flash back possible over considerable distance. Vapors may form explosive mixtures with air. Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
Special protective equipment for fire-fighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.



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SECTION	6. ACCIDENTAL RELE	AS	EMEASURES	
tive e	onal precautions, protec- quipment and emer- y procedures	:		a. otective equipment. Iling advice and personal protective
Envir	onmental precautions	:	Prevent further le Prevent spreadin oil barriers). Retain and dispo	e environment must be avoided. eakage or spillage if safe to do so. Ig over a wide area (e.g., by containment or use of contaminated wash water. should be advised if significant spillages ned.
	ods and materials for inment and cleaning up	:	Soak up with ine Suppress (knock jet. For large spills, p ment to keep ma pumped, store re Clean up remain bent. Local or national sal of this materia ployed in the clea which regulations Sections 13 and	ols should be used. rt absorbent material. a down) gases/vapors/mists with a water spra- provide diking or other appropriate contain- terial from spreading. If diked material can b ecovered material in appropriate container. ing materials from spill with suitable absor- regulations may apply to releases and dispo- al, as well as those materials and items em- anup of releases. You will need to determine s are applicable. 15 of this SDS provide information regarding ational requirements.
SECTION	7. HANDLING AND ST	OR	AGE	
Tech	nical measures	:		measures under EXPOSURE RSONAL PROTECTION section.
			10 00 1 1 11	

Local/Total ventilation :	If sufficient ventilation is unavailable, use with local exhaust ventilation. If advised by assessment of the local exposure potential, use only in an area equipped with explosion-proof exhaust ventila- tion.
Advice on safe handling :	Do not breathe vapors or spray mist. Do not swallow. Do not get in eyes. Avoid prolonged or repeated contact with skin. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment Non-sparking tools should be used. Keep container tightly closed. Keep away from heat and sources of ignition. Take precautionary measures against static discharges.



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		Take care to prevent of the termination of terminatio of termi	vent spills, waste and minimize release to the			
Condi	tions for safe storage	 Keep in properly labeled containers. Store locked up. Keep tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations. Keep away from heat and sources of ignition. 				
Materials to avoid		Strong oxidizing a Organic peroxide Flammable solids Pyrophoric liquids Pyrophoric solids Self-heating subs	es s s stances and mixtures mixtures which in contact with water emit			

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Propan-2-ol	67-63-0	TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
		TWA	400 ppm 980 mg/m³	NIOSH REL
		ST	500 ppm 1,225 mg/m³	NIOSH REL
		TWA	400 ppm 980 mg/m ³	OSHA Z-1

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sam- pling	Permissible concentra-	Basis
				time	tion	
Propan-2-ol	67-63-0	Acetone	Urine	End of shift at end of work- week	40 mg/l	ACGIH BEI

 Engineering measures
 : Minimize workplace exposure concentrations. If sufficient ventilation is unavailable, use with local exhaust ventilation. If advised by assessment of the local exposure potential, use only in an area equipped with explosion-proof exhaust ventilation.





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Perso	onal protective equip	oment		
	iratory protection	:	maintain vapor concentrations unknown, appre Follow OSHA r use NIOSH/MS by air purifying dous chemical respirator if the exposure levels	cal exhaust ventilation is recommended to exposures below recommended limits. Where are above recommended limits or are opriate respiratory protection should be worn. espirator regulations (29 CFR 1910.134) and GHA approved respirators. Protection provided respirators against exposure to any hazar- is limited. Use a positive pressure air supplied re is any potential for uncontrolled release, are unknown, or any other circumstance ving respirators may not provide adequate
	protection aterial	:	butyl-rubber	
Ma	aterial	:	Nitrile rubber	
Ma	aterial	:	Fluorinated rub	ber
Ma	aterial	:	Polyethylene	
Ma	aterial	:	Neoprene	
Ma	aterial	:	Chloroprene	
Re	emarks	:	on the concent applications, we micals of the af manufacturer.	to protect hands against chemicals dependin ration specific to place of work. For special e recommend clarifying the resistance to che- forementioned protective gloves with the glove Wash hands before breaks and at the end of through time is not determined for the pro- ploves often!
Eye p	protection	:	Wear the follow Safety goggles	ving personal protective equipment:
Skin a	and body protection	:	resistance data potential. Wear the follow If assessment of atmospheres o protective cloth Skin contact m	ate protective clothing based on chemical and an assessment of the local exposure ving personal protective equipment: demonstrates that there is a risk of explosive r flash fires, use flame retardant antistatic ing. ust be avoided by using impervious protective s, aprons, boots, etc).
Hygie	ne measures	:		chemical is likely during typical use, provide stems and safety showers close to the wor-



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				ot eat, drink or smoke. ted clothing before re-use.
SECTION	9. PHYSICAL AND CHI	ЕМІС	CAL PROPERTIE	S
Appea	arance	:	liquid	
Color		:	colorless	
Odor		:	alcohol-like, mild	t
Odor	Threshold	:	3 - 610 ppm	
pН		:	No data availabl	e
Meltir	ng point/freezing point	:	-128 °F / -89 °C	
Initial range	boiling point and boiling	:	180 °F / 82 °C (1,013 hPa)	
Flash	point	:	54 °F / 12 °C	
Evapo	oration rate	:	2.3 (Butyl Acetate=1	1.0)
			21 (Diethylether=1.0	0)
Flamr	mability (solid, gas)	:	Not applicable	
Flam	mability (liquids)	:	Ignitable (see fla	ash point)
	r explosion limit / Upper nability limit	:	13 %(V)	
	r explosion limit / Lower nability limit	:	2 %(V)	
Vapo	r pressure	:	44 hPa (68 °F / 2	20 °C)
			229 hPa (122 °F	/ 50 °C)
Relati	ive vapor density	:	2.1 (68 °F / 20 °	C)
Relati	ive density	:	0.8 (68 °F / 20 °	C)
Densi	ity	:	785 kg/m³	
	ility(ies) ater solubility	:	soluble	



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-	Partition coefficient: n- octanol/water	: log Pow: 0.05	
A	Autoignition temperature	: 750 °F / 399 °C	
[Decomposition temperature	: No data available)
١	Viscosity Viscosity, kinematic	: 2.532 mm²/s (77	°F / 25 °C)
E	Explosive properties	: Not explosive	
(Oxidizing properties	: The substance or	r mixture is not classified as oxidizing.
Ν	Minimum ignition energy	: 0.65 mJ	
F	Particle size	: Not applicable	

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac- tions	:	Highly flammable liquid and vapor. Vapors may form explosive mixture with air. Can react with strong oxidizing agents.
Conditions to avoid	:	Heat, flames and sparks.
Incompatible materials	:	Oxidizing agents
Hazardous decomposition products	:	No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes Inhalation Skin contact Ingestion Eye contact	of	exposure
Acute toxicity Not classified based on availa Components:	ble	information.
Propan-2-ol: Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 25 mg/l



rsion)	Revision Date: 10/24/2019	SDS Nui 5207417		Date of last issue: - Date of first issue: 10/24/2019
			sure time: atmosphe	
Acute	dermal toxicity	: LD50) (Rabbit):	> 5,000 mg/kg
	corrosion/irritation assified based on ava	ailable inform	nation.	
Comp	onents:			
Propa	ın-2-ol:			
Specie Result		: Rabb : No s	oit kin irritatio	n
	u s eye damage/eye es serious eye irritatio			
Comp	onents:			
Propa	ın-2-ol:			
Specie Result		: Rabb : Irritat		s, reversing within 21 days
Respi	ratory or skin sens	tization		
	sensitization assified based on ava	ailable inform	nation.	
-	ratory sensitization assified based on ava		nation.	
<u>Comp</u>	onents:			
Propa	ın-2-ol:			
Test T			ler Test	
Specie	s of exposure es		contact ea pig	
Metho	d	: OEC	D Test Gu	ideline 406
Result	t	: nega	tive	
Germ	cell mutagenicity			
Not cla	assified based on av	ailable inform	nation.	
Comp	onents:			
-	in-2-ol:		_	
Genot	oxicity in vitro		Type: Bac Ilt: negative	terial reverse mutation assay (AMES) e
			Type: In vi Ilt: negative	tro mammalian cell gene mutation test e
Genot	oxicity in vivo		Type: Mar genetic ass	nmalian erythrocyte micronucleus test (in vivo ay)



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		Applicat	: Mouse ion Route: Intraperitoneal injection negative
	n ogenicity assified based on ava	ailable information	on.
Comp	oonents:		
Propa	an-2-ol:		
Speci Applic	es cation Route sure time od	: 104 wee	Fest Guideline 451
IARC			ct present at levels greater than or equal to 0.1% is sible or confirmed human carcinogen by IARC.
OSH <i>A</i>		nent of this prod	uct present at levels greater than or equal to 0.1% d carcinogens.
NTP	No inaredie	ent of this produ	ct present at levels greater than or equal to 0.1% is
			nticipated carcinogen by NTP.
Not cl	identified a oductive toxicity assified based on ava	s a known or ar	nticipated carcinogen by NTP.
Not cl	identified a	s a known or ar	nticipated carcinogen by NTP.
Not cl <u>Comp</u> Propa	identified a oductive toxicity assified based on ava	s a known or ar ailable information : Test Typ Species Applicat	nticipated carcinogen by NTP. on. be: Two-generation reproduction toxicity study
Not cl Comr Propa Effect	identified a oductive toxicity assified based on ava <u>oonents:</u> an-2-ol:	ailable information ilable information : Test Type Species Applicat Result: I Species Applicat Species Applicat	on. on. ce: Two-generation reproduction toxicity study : Rat ion Route: Ingestion negative ce: Embryo-fetal development
Not cl Comp Propa Effect	identified a oductive toxicity assified based on ava <u>conents:</u> an-2-ol: s on fertility	ailable information ilable information : Test Type Species Applicat Result: I Species Applicat Species Applicat	nticipated carcinogen by NTP. on. e: Two-generation reproduction toxicity study : Rat ion Route: Ingestion negative pe: Embryo-fetal development : Rat ion Route: Ingestion
Not cl Comp Propa Effect Effect	identified a oductive toxicity assified based on ava <u>conents:</u> an-2-ol: s on fertility s on fetal developmen	ailable information ailable information : Test Type Species Applicat Result: In Species Applicat Result: In Result: I	nticipated carcinogen by NTP. on. e: Two-generation reproduction toxicity study : Rat ion Route: Ingestion negative pe: Embryo-fetal development : Rat ion Route: Ingestion
Not cl Comp Propa Effect Effect STOT May c	identified a oductive toxicity assified based on ava <u>oonents:</u> an-2-ol: s on fertility s on fetal development - single exposure	ailable information ailable information : Test Type Species Applicat Result: In Species Applicat Result: In Result: I	nticipated carcinogen by NTP. on. e: Two-generation reproduction toxicity study : Rat ion Route: Ingestion negative pe: Embryo-fetal development : Rat ion Route: Ingestion
Not cl Comp Propa Effect Effect STOT May c Comp	identified a oductive toxicity assified based on ava <u>conents:</u> an-2-ol: s on fertility s on fetal development -single exposure ause drowsiness or c	ailable information ailable information : Test Type Species Applicat Result: In Species Applicat Result: In Result: I	nticipated carcinogen by NTP. on. e: Two-generation reproduction toxicity study : Rat ion Route: Ingestion negative pe: Embryo-fetal development : Rat ion Route: Ingestion

Not classified based on available information.



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Repe	ated dose toxicity			
Com	oonents:			
Propa	an-2-ol:			
		:	Rat 12.5 mg/l inhalation (vapor) 104 Weeks	
Not cl	ation toxicity assified based on availa			
SECTION	12. ECOLOGICAL INFO	ORM	ATION	
Ecoto	oxicity			
Comp	oonents:			
-	an-2-ol:			
Toxici	ity to fish	:	LC50 (Pimephale: Exposure time: 96	s promelas (fathead minnow)): 9,640 mg/l 3 h
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia m Exposure time: 24	agna (Water flea)): > 10,000 mg/l l h
Toxici	ity to microorganisms	:	EC50 (Pseudomo Exposure time: 16	nas putida): > 1,050 mg/l S h
Persi	stence and degradabili	ity		
Comp	oonents:			
•	a n-2-ol: gradability	:	Result: rapidly de	gradable
BOD/	COD	:	BOD: 1.19 (BOD5	i)COD: 2.23BOD/COD: 53 %
Bioad	cumulative potential			
<u>Com</u>	oonents:			
Partiti	a n-2-ol: on coefficient: n- ol/water	:	log Pow: 0.05	
	l ity in soil Ita available			
	adverse effects Ita available			



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SECTION	13. DISPOSAL CON	SIDERATIC	ONS	
Disp	osal methods			
Wast	e from residues	: Disp	pose of in a	ccordance with local regulations.
		_		
Conta	aminated packaging	: Emp	pty containe	rs should be taken to an approved waste

handling site for recycling or disposal. Empty containers retain residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury and/or death. If not otherwise specified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG UN number Proper shipping name Class Packing group Labels	:	UN 1219 ISOPROPANOL 3 II 3
IATA-DGR UN/ID No. Proper shipping name Class Packing group Labels Packing instruction (cargo aircraft)		UN 1219 Isopropanol 3 II Flammable Liquids 364
Packing instruction (passen- ger aircraft)	:	353
IMDG-Code UN number Proper shipping name	:	UN 1219 ISOPROPANOL
Class Packing group Labels EmS Code Marine pollutant	:	3 II 3 F-E, S-D no
Transport in bulk according	to	Annex II of MARPOL

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

49 CFR

UN/ID/NA number	:	UN 1219
Proper shipping name	:	Isopropanol

: 3

Class



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Labels ERG C		-	II FLAMMABLE LIC 129 no	QUID

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

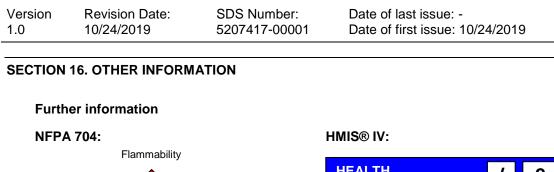
This material does not contain any components with a section 304 EHS RQ.

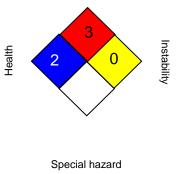
SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	Serious eye dama	s, aerosols, liquids age or eye irritation gan toxicity (single	or solids) or repeated exposure)	
SARA 313 :	5	nponents are subje A Title III, Section 3	ct to reporting levels es- 313:	
	Propan-2-ol	67-63-0	>= 90 - <= 100 %	
Volatile organic compounds (VOC) content	40 CFR Part 59 N sumer Products, VOC content: 100	Subpart C	sion Standard For Con-	
US State Regulations				
Pennsylvania Right To Know				
Propan-2-ol			67-63-0	
California List of Hazardous Su	ubstances			
Propan-2-ol			67-63-0	
California Permissible Exposure Limits for Chemical Contaminants				
Propan-2-ol			67-63-0	
The ingredients of this product are reported in the following inventories:				
TSCA :	All substances lis	ted as active on the	e TSCA inventory	









HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations

ACGIH ACGIH BEI NIOSH REL OSHA Z-1	:	USA. ACGIH Threshold Limit Values (TLV) ACGIH - Biological Exposure Indices (BEI) USA. NIOSH Recommended Exposure Limits USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim- its for Air Contaminants
ACGIH / TWA ACGIH / STEL NIOSH REL / TWA	:	8-hour, time-weighted average Short-term exposure limit Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST	:	STEL - 15-minute TWA exposure that should not be exceeded
OSHA Z-1 / TWA	:	at any time during a workday 8-hour time weighted average

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC -International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse)



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Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Sources of key data used to compile the Material Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

US / Z8