

Date of issue

Prepared by

: 2/13/2015

I	Product and company identification
	Prena

: 2/13/2015.

Date of printing

1.

Prepared forAkzo Nobel Coatings Inc.ATTN:1431 Progress Ave.ATTN:High Point, NC 27261 USWurth Louis and Company
9826 SOUTH PROSPERITY(336) 841-5111
In case of emergency (Health or Spills):WEST JORDAN, UT 84081 USCHEMTREC (US and Canada) (800) 424-9300

Product no.	: 441-2135
Container Code(s)	: 441-2135-D1CG, 441-2135-D55OA1, 441-2135-D5PRS
Product - Class	: 441-2135 CHEMLACK T/C
Customer Part Number	1
Customer ShipTo ID	: 0000108963

2. Hazards identification

Material Safety Data Shee	t	Continued on next page
Ingestion	:	Harmful if swallowed.
		Other effects of inhalation may include: blood effects, CNS effects, confusion, cough, depression, diarrhea, dizziness, drowsiness, excitation, fatigue, headache, incoordination, irregular heartbeat, narcosis, nausea, pulmonary edema, vomiting, weakness,
Inhalation		Toxic by inhalation. Irritating to respiratory system.
Potential acute health effe		,
Routes of entry		Dermal contact. Eye contact. Inhalation. Ingestion.
		Keep away from heat, sparks and flame. Do not breathe vapor or mist. Do not ingest. Do not get in eyes. Avoid contact with skin and clothing. Avoid exposure during pregnancy. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.
		EXTREMELY FLAMMABLE LIQUID AND VAPOR. FLAMMABLE. VAPOR MAY CAUSE FLASH FIRE. CAUSES SEVERE SKIN IRRITATION. HARMFUL IF INHALED OR SWALLOWED. CAUSES RESPIRATORY TRACT AND EYE IRRITATION. MAY BE HARMFUL IF ABSORBED THROUGH SKIN. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA. POSSIBLE CANCER HAZARD - CONTAINS MATERIAL WHICH MAY CAUSE CANCER, BASED ON ANIMAL DATA. POSSIBLE BIRTH DEFECT HAZARD - CONTAINS MATERIAL WHICH MAY CAUSE BIRTH DEFECTS, BASED ON ANIMAL DATA.
Emergency overview	:	DANGER!
OSHA/HCS status	:	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Physical state		Liquid.

0000108963

2. Hazards identification

		Other effects of ingestion may include : cardiovascular effects, CNS effects, diarrhea, dizziness, drowsiness, fatigue, gastric disturbances, gastroenteritis, headache, high blood sugar, irritation, kidney damage, liver damage, nausea, vomiting, weakness,
Skin		Harmful in contact with skin. Severely irritating to the skin. Other effects of skin contact may include: dehydration, dermatitis, discoloration, Effects due to absorption through skin may include: blood effects, CNS effects, depression, diarrhea, dizziness, drowsiness, fatigue, headache, incoordination, kidney damage, narcosis, nausea, vomiting, weakness,
Eyes	:	Irritating to eyes.
		Other effects of eye contact may include : burning, eye damage, redness, swelling, tearing,
Potential chronic health eff	ects	
Carcinogenicity		Contains material which may cause cancer, based on animal data. Risk of cancer depends on duration and level of exposure.
Mutagenicity	1	No known significant effects or critical hazards.
Teratogenicity	1	Contains material which may cause birth defects, based on animal data.
Target organs		Contains material which may cause damage to the following organs: blood, kidneys, the reproductive system, liver, heart, brain, upper respiratory tract, skin, eyes, central nervous system (CNS), ears.
Medical conditions aggravated by over- exposure		pulmonary conditions, skin disorders, liver conditions, kidney conditions, respiratory conditions, neurological disorders, cardiovascular diseases, reproductive system disorders, hearing disorders,

NOTICE: Reports have associated repeated and prolonged OVEREXPOSURE to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents of this package may be harmful or fatal.

See toxicological information (Section 11)

3. Composition/information on ingredients

Name isobutyl acetate	CAS number % by weigh 110-19-0	1.7 kPa (12.5 mm Hg) [room	Exposure limits ACGIH TLV (United States). TWA: 150 ppm 8 hours.
toluene	108-88-3	temperature] Not available.	OSHA PEL (United States). TWA: 150 ppm 8 hours. ACGIH TLV (United States). TWA: 20 ppm 8 hours. OSHA PEL (United States).
			CEIL: 500 ppm TWA: 200 ppm 8 hours. STEL: 300 ppm 15 minutes.
xylene, mixed isomers	1330-20-7	0.68 kPa (5.1 mm Hg) [room temperature]	ACGIH TLV (United States). TWA: 100 ppm 8 hours. STEL: 150 ppm 15 minutes. OSHA PEL (United States). TWA: 100 ppm 8 hours.
nitrocellulose butyl acetate	9004-70-0 123-86-4	Not available. 1.3 kPa (10 mm Hg) [room temperature]	ACGIH TLV (United States). TWA: 150 ppm 8 hours. STEL: 200 ppm 15 minutes. OSHA PEL (United States). TWA: 150 ppm 8 hours.
proprietary n-butanol	- 71-36-3	Not available. 0.73 kPa (5.5 mm Hg) [room	ACGIH TLV (United States). TWA: 20 ppm 8 hours.

Material Safety Data Sheet

0000108963

2/13/2015.

3. Composition/information on ingredients

		temperature]	OSHA PEL (United States). TWA: 100 ppm 8 hours.
propan-2-ol	67-63-0	4.4 kPa (33 mm Hg) [room temperature]	ACGIH TLV (United States). TWA: 200 ppm 8 hours. STEL: 400 ppm 15 minutes. OSHA PEL (United States). TWA: 400 ppm 8 hours.
isobutyl isobutyrate	97-85-8	0.43 kPa (3.2 mm Hg) [room temperature]	
propan-2-one	67-64-1	24.7 kPa (185 mm Hg) [room temperature]	ACGIH TLV (United States). TWA: 500 ppm 8 hours. STEL: 750 ppm 15 minutes. OSHA PEL (United States). TWA: 1000 ppm 8 hours.
2-methoxy-1-methylethyl acetate	108-65-6	0.49 kPa (3.7 mm Hg) [room temperature]	
ethyl benzene	100-41-4	0.95 kPa (7.1 mm Hg) [room temperature]	ACGIH TLV (United States). TWA: 20 ppm 8 hours. STEL: 125 ppm 15 minutes. OSHA PEL (United States). TWA: 100 ppm 8 hours.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures			
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.	
Eye contact	:	Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately if symptoms occur.	
Skin contact	:	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately if symptoms occur.	
Inhalation	:	Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately if symptoms occur.	
Ingestion	:	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.	
5. Fire-fighting	n	neasures	
Flammability of the produc	;t	: Extremely flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard. DANGER - Rags, steel wool or waste soaked with this product may spontaneously catch fire if improperty discarded.	

catch fire if improperly discarded. Immediately after use, place rags, steel wool or waste in a sealed water-filled metal container. Waste should be understood to include contaminated articles, including spray booth filters and strippings.

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Flash point : Closed cup: -20℃ (-4年)
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4/10

441-2135	0000108963	2/13/2015.	4/10
5. Fire-fighting	measures		
Flammable limits	: Lower: 1% Upper: 13%		
Extinguishing media			
Suitable	: Use dry chemical, CO2, water spr	ay (fog) or foam.	
Not suitable	: Do not use water jet.		
Special exposure hazards	there is a fire. No action shall be training. Move containers from fir spray to keep fire-exposed contain	noving all persons from the vicinity of the ir taken involving any personal risk or withou e area if this can be done without risk. Us ners cool. Fire water contaminated with th from being discharged to any waterway, s	ut suitable se water his material
Hazardous thermal decomposition products	: Decomposition products may inclu carbon dioxide carbon monoxide nitrogen oxides halogenated compounds	ude the following materials:	
Special protective equipment for fire-fighters		ate protective equipment and self-contain piece operated in positive pressure mode	
		ng emergency conditions, overexposure to azard; symptoms may not be immediately	
Special remarks on fire	 Not available 		

Special remarks on fire : Not available. . hazards

Special remarks on : Not available. explosion hazards

Accidental release measures 6.

Personal precautions	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
Methods for cleaning up		
Small spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

7. Handling and storage

Handling	:	Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Avoid exposure during pregnancy. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Do not enter confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.
Storage	:	Store in accordance with local regulations. Store in approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away

Store in accordance with local regulations. Store in approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. Exposure controls/personal protection

Engineering measures	:	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Personal protection		Selection of personal protective equipment (PPE) is to be established by the employer performing a PPE hazard assessment. In the U.S.A, OSHA requires completion of a documented PPE hazard assessment as described in 29 CFR 1910.132.
Respiratory	:	Use properly fitted respiratory protection complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Dry sanding, flame cutting and/or welding of the dry paint film will give rise to dust and/ or hazardous fumes. Wet sanding/flatting should be used wherever possible. If exposure cannot be avoided by the provision of local exhaust ventilation, suitable respiratory protective equipment should be used.
Hands	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Eyes	:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

441-	2135	0000108963	2/13/2015.	6/10
8.	Exposure	controls/personal protecti	on	
Skin		performed and the risks involved a handling this product. When there is a risk of ignition from	the body should be selected based on th nd should be approved by a specialist be n static electricity, wear anti-static protec atic discharges, clothing should include a	efore tive clothing.
Other	protection	: Not available.		

9. Physical and chemical properties

Physical state	: Liquid.
Burning time	: Not applicable.
Burning rate	: Not applicable.
Color	: Not available.
Odor	: Not available.
Taste	: Not available.
Molecular weight	: Not applicable.
Molecular formula	: Not applicable.
рН	: Not available.
Boiling/condensation point	: 56 to 151°C (132.8 to 303.8°F)
Melting/freezing point	: Not available.
Critical temperature	: Not available.
Relative density	: 0.928
Vapor density	: Heavier than air
Volatility	: 74.89% (w/w)
Odor threshold	: Not available.
Evaporation rate	: Highest known value: Greater than 1. (isobutyl acetate) compared with butyl acetate
Viscosity	: Not available.
lonicity (in water)	: Not available.
Dispersibility properties	: Not available.
Solubility	: Not available.

10. Stability and reactivity

: The product is stable, under normal conditions of storage and use.
: Will not undergo hazardous polymerization.
: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Other Conditions to avoid: temperatures above 140 degrees, high humidity, light, moisture, allow air blanket above liquid, drying out,
: Reactive or incompatible with the following materials: oxidizing materials, reducing materials, acids and alkalis.
: Not available.
: Under normal conditions of storage and use, hazardous reactions will not occur.

2/13/2015.

11. Toxicological information

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Product/ingredient name	Result	Species	Dose	Exposure	
isobutyl acetate	LC50 Inhalation Vapor	Rat	3500 ppm	4 hours	
xylene, mixed isomers	LD50 Oral	Rat	4300 mg/kg	-	
, ,	LC50 Inhalation Vapor	Rat	5000 ppm	4 hours	
toluene	LD50 Dermal	Rabbit	12124 mg/kg	-	
	LD50 Oral	Rat	636 mg/kg	-	
	LC50 Inhalation Vapor	Rat	49000 mg/m ³	4 hours	
butyl acetate	LD50 Oral	Rat	10768 mg/kg	-	
	LC50 Inhalation Vapor	Rat	390 ppm	4 hours	
propan-2-one	LD50 Oral	Rat	5800 mg/kg	-	
	LC50 Inhalation Vapor	Rat	50100 mg/m ³	8 hours	
isobutyl isobutyrate	LC50 Inhalation Vapor	Rat	5000 ppm	6 hours	
2-methoxy-1-methylethyl acetate	LD50 Oral	Rat	8532 mg/kg	-	
n-butanol	LD50 Dermal	Rabbit	3400 mg/kg	-	
	LD50 Oral	Rat	790 mg/kg	-	
	LC50 Inhalation Vapor	Rat	8000 ppm	4 hours	
propan-2-ol	LD50 Dermal	Rabbit	12800 mg/kg	-	
	LD50 Oral	Rat	5000 mg/kg	-	
	LC50 Inhalation Vapor	Rat	12000 ppm	8 hours	
ethyl benzene	LD50 Dermal	Rabbit	15486 mg/kg	-	
	LD50 Oral	Rat	3500 mg/kg	-	
	LC50 Inhalation Vapor	Rat	55000 mg/m³	2 hours	
Carcinogenicity					
Product/ingredient name ethyl benzene		IARC 2B	NTP -	OSHA -	
<u>Mutagenicity</u>					
Product/ingredient name Not available.	Test	Experin	nent Re	Result	
<u>Feratogenicity</u>					
Product/ingredient name toluene	Result Positive - Unreported	Species Mammal - species unspecified	Dose -	Exposure -	

12. Ecological information

Data available upon request.

13. Disposal considerations

Waste disposal

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a

13. Disposal considerations

safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. Transport information

Note: Information contained in this section may vary from the actual shipping description depending on quantity in containers, mode of shipment and use of exemptions.

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	UN1263	Paint. Marine pollutant (proprietary) RQ (xylene, mixed isomers, toluene)	3	II		RQ: 1128.88lbs (511. 965kgs) [xylene, mixed isomers] RQ: 11190.7lbs (5075. 15kgs) [toluene]
TDG Classification	UN1263	Paint. Marine pollutant (chlorinated paraffins)	3	11		The marine pollutant mark is not required when transported by road or rail.
IMDG Class	UN1263	Paint	3	11	×	-
IATA-DGR Class	UN1263	Paint	3	11		The environmentally hazardous substance mark may appear if required by other transportation regulations.

PG* : Packing group

15. Regulatory information

United States

U.S. Federal regulations

: United States inventory (TSCA 8b) : All components are listed or exempted.

(HAPS) Clean Air Act (CAA) 112 regulated toxic substances: xylene, mixed isomers; ethyl benzene; toluene; cumene

SARA 313

	Product name	CAS number	Concentration
Form R - Reporting	: toluene	108-88-3	8.95
requirements	xylene, mixed isomers	1330-20-7	8.87
-	n-butanol	71-36-3	6.19
	ethyl benzene	100-41-4	2.08

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

Material Safety Data Sheet	Continued on next page
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15. Regulatory information

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

Ingredient name	<u>Cancer</u>	<u>Reproductive</u>	<u>No significant risk</u> level	<u>Maximum</u> acceptable dosage level
toluene	No.	Yes.	No.	No.
ethyl benzene	Yes.	No.	No.	No.
cumene	Yes.	No.	No.	No.

<u>Canada</u>

Canada inventory

: All components of this product are on the CEPA DSL inventory.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

International regulations	
International lists	: Australia inventory (AICS): Not determined.
	China inventory (IECSC): All components are listed or exempted.
	Japan inventory: Not determined.
	Korea inventory: All components are listed or exempted.
	Malaysia Inventory (EHS Register): Not determined.
	New Zealand Inventory of Chemicals (NZIoC): Not determined.
	Philippines inventory (PICCS): Not determined.
	Taiwan inventory (CSNN): Not determined.

** All values in this section reported as percentage by weight, unless otherwise specified.

16. Other information

HMIS III ® Hazardous Material Information System (U.S.A.)

Health	*	2
Flammability		3
Physical hazards		
Personal protection		

Caution: HMIS III ® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risk, and 4 representing severe hazards or risk. Although HMIS III ® ratings are not required on MSDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS III ® ratings are to be used with a fully implemented HMIS III ® program. HMIS III ® is a registered mark of the National Paint & Coatings Association (NPCA).

The customer is responsible for determining the PPE code for this material.

Other special considerations

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: Not available.
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Notice to reader

IMPORTANT NOTE The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. Always read the Material Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. All products supplied and technical advice given are subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in the light of experience and our policy of continuous

Material Safety Data Sheet

441-2135

0000108963

2/13/2015.

16. Other information

development. It is the user's responsibility to verify that this data sheet is current prior to using the product.

Brand names mentioned in this data sheet are trademarks of or are licensed to Akzo Nobel.