

# **SAFETY DATA SHEET**

## High Solids Polyurethane Gloss Enamel 646-58-7886

# Section 1. Identification

GHS product identifier Other means of identification	<ul> <li>High Solids Polyurethane Gloss Enamel 646-58-7886</li> <li>646-58-7886_White 595C-17886 #G10157</li> </ul>
Relevant identified uses of the	substance or mixture and uses advised against : FOR INDUSTRIAL USE ONLY
Supplier/Manufacturer	: Akzo Nobel Coatings, Inc. 1 East Water Street Waukegan, IL 60085 USA Tel. 1 847 623 4200 Email: customer. service@akzonobel.com
Canadian Supplier	: Akzo Nobel Coatings Ltd. 110 Woodbine Downs Blvd. Unit #4 Etobicoke, Ontario Canada M9W 5S6 +1 (800) 618-1010
Emergency telephone number	: CHEMTREC +1 (800) 424-9300 (Inside the US) CHEMTREC International +1 (703) 527-3887 (Outside the US, collect calls accepted)
Date of issue / Date of revision Safety Data Sheet Version Date of printing	26 October 2017 1 26 October 2017

Akzo Nobel Coatings Inc. encourages and expects you to read and understand this entire MSDS, as there is important information throughout the document. Further, Akzo Nobel Coatings Inc. expects you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

To promote safe handling, each customer or recipient should: 1) Notify its employees, agents, contractors, and others whom it knows or believes will use this material of the information contained in this MSDS and any other information regarding hazards and safety; 2) Furnish this same information to each of its customers for the product; 3) Request its customers to notify their employees, customers, and other users of the product of this information; and 4) Notify its employees, agents, contractors, and others that the precautions identified for this product and any other products with which mixtures may be created are transferable and cumulative to the mixture.

# Section 2. Hazards identification

OSHA/HCS status	<ul> <li>This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).</li> </ul>
Classification of the substance or mixture	: FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 4 CARCINOGENICITY - Category 2

#### **GHS label elements**

For additional information call Akzo Nobel at (847) 625-4200

Hazard pictograms	
Signal word	: Warning
Hazard statements	: Flammable liquid and vapor. Harmful if swallowed. Suspected of causing cancer.
Precautionary statemen	<u>ts</u>
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames an other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionar measures against static discharge. Ground/bond container and receiving equipment. Keep container tightly closed. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.
Response	: IF exposed or concerned: Get medical attention. IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. IF ON SKIN (or hair): Take of immediately all contaminated clothing. Rinse skin with water or shower.
Storage	: Store locked up. Store in a well-ventilated place. Keep cool.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
lazards not otherwise classified	: None known.

# Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Ingredient name	%	CAS number
titanium dioxide	25 - 30	13463-67-7
heptan-2-one	20 - 25	110-43-0
silicon dioxide	1 - 5	7631-86-9
n-butyl acetate	1 - 5	123-86-4
aluminium hydroxide	1 - 5	21645-51-2

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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.

Occupational exposure limits, if available, are listed in Section 8.

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# Section 4. First aid measures

Description of necessar	y first aid measures				
Eye contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.				
Inhalation	<ul> <li>Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.</li> </ul>				
Skin contact	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.				
Ingestion	: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.				

### Most important symptoms/effects, acute and delayed

Potential acute health effects	
Eve contact	No knowr

Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: Harmful if swallowed.
<u>Over-exposure signs/sym</u>	<u>ptoms</u>
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.
Indication of immediate me	dical attention and special treatment needed, if necessary
Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

### See toxicological information (Section 11)

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Section 5. Fire-fig	hting measures
Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Flammable liquid and vapor. 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.
Hazardous thermal decomposition products	<ul> <li>Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides</li> </ul>
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

# Section 6. Accidental release measures

Personal precautions, protect	tive equipment and emergency procedures			
For non-emergency personnel	<ul> <li>No action shall be taken involving any personal risk or without suitable training.</li> <li>Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources.</li> <li>No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.</li> </ul>			
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".			
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).			
Methods and materials for containment and cleaning up				
Cmall anill	Chan lack if without risk. Mays contain on from smill once the small model and			

Small spill: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and<br/>explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively,<br/>or if water-insoluble, absorb with an inert dry material and place in an appropriate waste<br/>disposal container. Dispose of via a licensed waste disposal contractor.

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## Section 6. Accidental release measures

Large spill: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and<br/>explosion-proof equipment. Approach release from upwind. Prevent entry into sewers,<br/>water courses, basements or confined areas. Wash spillages into an effluent treatment<br/>plant or proceed as follows. Contain and collect spillage with non-combustible,<br/>absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in<br/>container for disposal according to local regulations (see Section 13). Dispose of via a<br/>licensed waste disposal contractor. Contaminated absorbent material may pose the<br/>same hazard as the spilled product. Note: see Section 1 for emergency contact<br/>information and Section 13 for waste disposal.

## Section 7. Handling and storage

### Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and 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 only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: 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. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	: Store in accordance with local regulations. Store in a segregated and 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. Store locked up. 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.

# Section 8. Exposure controls/personal protection

#### **Control parameters**

#### Occupational exposure limits

Ingredient name	Exposure limits
titanium dioxide	OSHA PEL (United States, 2/2013). TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust ACGIH TLV (United States, 3/2015).
heptan-2-one	TWA: 10 mg/m <sup>3</sup> 8 hours. <b>ACGIH TLV (United States, 3/2015).</b> TWA: 233 mg/m <sup>3</sup> 8 hours.
	TWA: 50 ppm 8 hours. NIOSH REL (United States, 10/2013).

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High	Solids	Polyur	ethane	Gloss	<b>Enamel</b>	646-58-7886
ingn	Conda	i oiyui	Cunanc	01033	Linamo	040-00-7000

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	TWA: 465 mg/m <sup>3</sup> 10 hours.
	TWA: 100 ppm 10 hours.
	OSHA PEL (United States, 2/2013).
	TWA: 465 mg/m <sup>3</sup> 8 hours.
	TWA: 100 ppm 8 hours.
silicon dioxide	NIOSH REL (United States, 10/2013).
	TWA: 6 mg/m <sup>3</sup> 10 hours.
n-butyl acetate	ACGIH TLV (United States, 3/2015).
	STEL: 200 ppm 15 minutes.
	TWA: 150 ppm 8 hours.
	NIOSH REL (United States, 10/2013).
	STEL: 950 mg/m <sup>3</sup> 15 minutes.
	STEL: 200 ppm 15 minutes.
	TWA: 710 mg/m <sup>3</sup> 10 hours.
	TWA: 150 ppm 10 hours.
	OSHA PEL (United States, 2/2013).
	TWA: 710 mg/m <sup>3</sup> 8 hours.
	TWA: 150 ppm 8 hours.
aluminium hydroxide	ACGIH TLV (United States, 3/2015).
	TWA: 1 mg/m <sup>3</sup> 8 hours. Form: Respirable
	fraction

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Appropriate engineering : controls	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.
Environmental exposure : controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measures	
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.
Eye/face protection :	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, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection	

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# Section 8. Exposure controls/personal protection

Hand protection	: 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.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

# Section 9. Physical and chemical properties

#### Appearance

Physical state	:	Liquid.		
Color	:	White.		
Odor	:	Solvent.		
Odor threshold	:	Not available.		
рН	:	Not available.		
Melting/freezing point	:	Not available.		
Boiling point	:	126°C (258.8°F)		
boiling range	:	Not available.		
Flash point	:	Closed cup: 25°C (77°F)		
Evaporation rate	:	Not available.		
Flammability (solid, gas) : Not available.				
Upper/lower flammability or exp	olc	osive limits		
Upper:	:	Not determined.		
Lower:	:	Not determined.		
Vapor pressure	:	Not available.		
Vapor density	:	Not available.		
Relative density	:	1.324		
Density	:	11.05 lbs/gal 1.324 g/cm <sup>3</sup>		
Solubility	blubility : Not available.			
Solubility in water	:	: Not available.		
Partition coefficient: n- octanol/water	:	Not available.		
Auto-ignition temperature	:	: Not available.		

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Section 9. Physica	Section 9. Physical and chemical properties				
Decomposition temperature Viscosity	<ul> <li>Not available.</li> <li>Kinematic (room temperature): 2.19 cm²/s (219 cSt)</li> </ul>				
Weight Volatiles Volume Volatiles	: 26.26% (w/w) : 42.14 %(v/v)				
Weight Solids	: 73.74 %(w/w)				
Volume Solids Regulatory VOC VOC Actual	: 57.86 %(v/v) : 2.9 lbs/gal 348 g/l minus water and exempt solvents : 2.9 lbs/gal 348 g/l				
Section 10. Stability and reactivity					
Reactivity	: No specific test data related to reactivity available for this product or its ingredients.				
Chemical stability	: The product is stable.				
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.				
Conditions to avoid	: 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.				
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials				
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products shou not be produced.				

# Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
heptan-2-one n-butyl acetate	LD50 Oral LC50 Inhalation Vapor LD50 Dermal LD50 Oral	Rat Rat Rabbit Rat	1600 mg/kg 390 ppm >17600 mg/kg 10768 mg/kg	- 4 hours - -

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
titanium dioxide	Skin - Mild irritant	Human	-	72 hours 300 Micrograms Intermittent	-
heptan-2-one	Skin - Mild irritant	Rabbit	-	24 hours 14 milligrams	-
silicon dioxide	Eyes - Mild irritant	Rabbit	-	24 hours 25 milligrams	-
n-butyl acetate	Eyes - Moderate irritant	Rabbit	-	100	-

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igh Solids Polyurethane Glo	ss Enamel 64	46-58-7886					Page: 9/13
Section 11. Toxico	ological	inform	natio	n			
	Skin - Mo	Skin - Moderate irritantRabbit-milligrams 24 hours 500 milligrams					-
<u>Sensitization</u>							
Not available.							
<u>Mutagenicity</u> Not available.							
Carcinogenicity Not available.							
<b>Classification</b>							
Product/ingredient name	OSHA	IARC	NTP				
titanium dioxide silicon dioxide	-	2B 3					
<b>Reproductive toxicity</b> Not available.							
<u>Teratogenicity</u> Not available.							
Specific target organ toxici Not available.	<u>ty (single ex</u>	<u>posure)</u>					
<b>Specific target organ toxici</b> Not available.	<u>ty (repeated</u>	exposure	)				
Aspiration hazard Not available.							
nformation on the likely outes of exposure	: Not avai	lable.					
otential acute health effect	<u>s</u>						
Eye contact		0		ts or critical haz			
Inhalation	: No known significant effects or critical hazards.						
Skin contact	: No known significant effects or critical hazards.						
Ingestion	: Harmful if swallowed.						
ymptoms related to the phy	sical, chem	ical and to	xicolo	gical characte	ristics		
Eye contact	: No spec						
Inhalation	: No spec						
Skin contact	: No spec						
Ingestion	: No spec						
elayed and immediate effec	cts and also	<u>chronic ef</u>	ffects f	rom short and	long term e	<u>xposure</u>	

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Section	11.	I OXICO	logical	Intorn	ation

<u>Short term exposure</u>		
Potential immediate	:	Not available.
effects		
Potential delayed effects	:	Not available.
Long term exposure		
Potential immediate	:	Not available.
effects		
Potential delayed effects	:	Not available.
Potential chronic health effe	ect	<u>s</u>

Not available.

General	: No known significant effects or critical hazards.
Carcinogenicity	: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

### Numerical measures of toxicity

### Acute toxicity estimates

Route	ATE value
Oral	1868.1 mg/kg

# Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
	15	Fish - Pimephales promelas	96 hours
	Fresh water Acute LC50 62000 µg/l	Fish - Danio rerio	96 hours

### Persistence and degradability

Not available.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
heptan-2-one	2.26	-	low
n-butyl acetate	2.3		low

### Mobility in soil

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Section 12. Ecol	ogical information
Soil/water partition coefficient (Koc)	: Not available.
Other adverse effects	: No known significant effects or critical hazards.
Section 13. Disp	osal considerations
Disposal methods	: 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 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.

Section 14. Transport information

**Special precautions for user** : Please Note: The information provided in section 14 is based on a bulk package shipment via ground transport in North America. All shippers are responsible for ensuring the proper transportation classification and package/container requirements are followed for the relevant mode of transport.

**Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

	DOT Classification	TDG Classification	Mexico Classification	IMDG	ΙΑΤΑ
UN number	UN1263	UN1263	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT	PAINT	PAINT
Transport hazard class(es)		3	3	3	3
Packing group	III	Ш	Ш	III	III
Environmental hazards	No.	No.	No.	No.	No.

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# Section 15. Regulatory information

#### **U.S. Federal regulations**

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

#### SARA 311/312

Classification

: Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard

### California Prop. 65

**WARNING:** This product contains a chemical known to the State of California to cause cancer. **WARNING:** This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

International lists	
National inventory	
Australia	: All components are listed or exempted.
Canada	: At least one component is not listed in DSL but all such components are listed in NDSL.
China	: All components are listed or exempted.
Europe	<ul> <li>At least one component is not listed in EINECS but all such components are listed in ELINCS.</li> </ul>
	Please contact your supplier for information on the inventory status of this material.
Japan	: Japan inventory (ENCS): At least one component is not listed. Japan inventory (ISHL): At least one component is not listed.
Malaysia	: At least one component is not listed.
New Zealand	: All components are listed or exempted.
Philippines	: All components are listed or exempted.
Republic of Korea	: All components are listed or exempted.
Taiwan	: All components are listed or exempted.
Turkey	: At least one component is not listed.

## Section 16. Other information

#### Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

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

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**Section 16. Other information** 

National Fire Protection Association (U.S.A.)

Health 4 0 Instability/Reactivity Special

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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

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Date of issue/Date of revision Version MSDS #	:	26 October 2017 1 008511	0004	0036376500
Key to abbreviations	:	IATA = International Air T IBC = Intermediate Bulk ( IMDG = International Mar LogPow = logarithm of th	Factor zed System of Class ransport Associatio Container ritime Dangerous G e octanol/water par Convention for the	oods tition coefficient Prevention of Pollution From Ships, 1973 as

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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# **SAFETY DATA SHEET**

## High Solids Polyurethane Enamel Gloss X-501 Curing Solution

## **Section 1. Identification**

GHS product identifier Other means of identification	<ul> <li>High Solids Polyurethane Enamel Gloss X-501 Curing Solution</li> <li>X-501_Curing Solution</li> </ul>
Relevant identified uses of the	substance or mixture and uses advised against : FOR INDUSTRIAL USE ONLY
Supplier/Manufacturer	: Akzo Nobel Coatings, Inc. 1 East Water Street Waukegan, IL 60085 USA Tel. 1 847 623 4200 Email: customer. service@akzonobel.com
Canadian Supplier	: Akzo Nobel Coatings Ltd. 110 Woodbine Downs Blvd. Unit #4 Etobicoke, Ontario Canada M9W 5S6 +1 (800) 618-1010
Emergency telephone number	: CHEMTREC +1 (800) 424-9300 (Inside the US) CHEMTREC International +1 (703) 527-3887 (Outside the US, collect calls accepted)
Date of issue / Date of revision Safety Data Sheet Version Date of printing	: 1 June 2020 : 6.13 : 1 June 2020

Akzo Nobel Coatings Inc. encourages and expects you to read and understand this entire MSDS, as there is important information throughout the document. Further, Akzo Nobel Coatings Inc. expects you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

To promote safe handling, each customer or recipient should: 1) Notify its employees, agents, contractors, and others whom it knows or believes will use this material of the information contained in this MSDS and any other information regarding hazards and safety; 2) Furnish this same information to each of its customers for the product; 3) Request its customers to notify their employees, customers, and other users of the product of this information; and 4) Notify its employees, agents, contractors, and others that the precautions identified for this product and any other products with which mixtures may be created are transferable and cumulative to the mixture.

# Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 4

#### **GHS label elements**

For additional information call Akzo Nobel at (847) 625-4200

Section 2. Hazards identification Hazard pictograms Signal word : Warning Hazard statements : Flammable liquid and vapor. Harmful if swallowed. Precautionary statements Prevention : Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosionproof electrical, ventilating, lighting and all material-handling equipment. Use only nonsparking tools. Take precautionary measures against static discharge. Ground/bond container and receiving equipment. Keep container tightly closed. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Response : IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Storage : Store in a well-ventilated place. Keep cool. Disposal Dispose of contents and container in accordance with all local, regional, national and international regulations. Hazards not otherwise : None known. classified

# Section 3. Composition/information on ingredients

: Mixture

Substance/mixture

Ingredient name	%	CAS number
	45 - 50 45 - 50 1 - 5	110-43-0 28182-81-2 123-54-6

Any concentration shown as a range is to protect confidentiality or is due to batch variation. 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.

Occupational exposure limits, if available, are listed in Section 8.

# Section 4. First aid measures

### Description of necessary first aid measures

Eye contact

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

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# Section 4. First aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	<ul> <li>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.</li> </ul>
Ingestion	: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

## Most important symptoms/effects, acute and delayed

Most important sympto	oms/effects, acute and delayed
Potential acute health	<u>n effects</u>
Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: Harmful if swallowed.
Over-exposure signs	/symptoms
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.

### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

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Section 5. Fire-fighting measures		
Extinguishing media		
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.	
Unsuitable extinguishing media	: Do not use water jet.	
Specific hazards arising from the chemical	: Flammable liquid and vapor. 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.	
Hazardous thermal decomposition products	<ul> <li>Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides</li> </ul>	
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.	
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.	

# Section 6. Accidental release measures

Personal precautions, protec	tive equipment and emergency procedures			
For non-emergency personnel	<ul> <li>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. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.</li> </ul>			
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".			
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).			
Methods and materials for containment and cleaning up				
Small snill	Stop look if without rick. Move containers from spill area. Use spark proof tools and			

Small spill: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and<br/>explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively,<br/>or if water-insoluble, absorb with an inert dry material and place in an appropriate waste<br/>disposal container. Dispose of via a licensed waste disposal contractor.

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## Section 6. Accidental release measures

Large spill: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and<br/>explosion-proof equipment. Approach release from upwind. Prevent entry into sewers,<br/>water courses, basements or confined areas. Wash spillages into an effluent treatment<br/>plant or proceed as follows. Contain and collect spillage with non-combustible,<br/>absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in<br/>container for disposal according to local regulations (see Section 13). Dispose of via a<br/>licensed waste disposal contractor. Contaminated absorbent material may pose the<br/>same hazard as the spilled product. Note: see Section 1 for emergency contact<br/>information and Section 13 for waste disposal.

## Section 7. Handling and storage

Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and 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 only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: 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. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	: Store in accordance with local regulations. Store in a segregated and 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.

## Section 8. Exposure controls/personal protection

### **Control parameters**

#### **Occupational exposure limits**

Ingredient name	Exposure limits
heptan-2-one	ACGIH TLV (United States, 3/2016). TWA: 50 ppm 8 hours. TWA: 233 mg/m <sup>3</sup> 8 hours. NIOSH REL (United States, 10/2016). TWA: 100 ppm 10 hours. TWA: 465 mg/m <sup>3</sup> 10 hours. OSHA PEL (United States, 6/2016). TWA: 100 ppm 8 hours. TWA: 465 mg/m <sup>3</sup> 8 hours.
Hexamethylene diisocyanate, oligomers	None.

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pentane-2,4-dione	Ure controls/personal protection (United States, 3/2018). Absorbed through
pentane-2,4-dione	skin.
	TWA: 25 ppm 8 hours.
<u></u>	
Appropriate engineering controls	: 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.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measu	Ires
Hygiene measures	<ul> <li>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.</li> <li>Appropriate techniques should be used to remove potentially contaminated clothing.</li> <li>Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.</li> </ul>
Eye/face protection	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, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side- shields.
Skin protection	
Hand protection	: 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.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

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# Section 9. Physical and chemical properties

### Appearance

Physical state	:	Liquid.
Color	-	Yellowish.
Odor	:	Solvent.
Odor threshold	:	Not available.
рН	:	Not available.
Melting/freezing point	:	Not available.
Boiling point	:	140°C (284°F)
boiling range	:	Not available.
Flash point	:	Closed cup: 34°C (93.2°F)
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	
Upper/lower flammability or exp	plo	sive limits
Upper:	:	Not determined.
Lower:	:	Not determined.
Vapor pressure	:	Not available.
Vapor density	:	Not available.
Relative density	:	0.957
Density	:	7.99 lbs/gal 0.957 g/cm <sup>3</sup>
Solubility	:	Not available.
Solubility in water	:	Not available.
Partition coefficient: n- octanol/water	:	Not available.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
Viscosity	:	Kinematic (room temperature): 1.15 cm²/s (115 cSt)
Weight Volatiles	:	50.93% (w/w)
Volume Volatiles	:	59.55 %(v/v)
Weight Solids	:	49.07 %(w/w)
Volume Solids	:	40.45 %(v/v)
Regulatory VOC	:	4.1 lbs/gal 487 g/l minus water and exempt solvents
VOC Actual	:	4.1 lbs/gal 487 g/l

# Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.

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# Section 10. Stability and reactivity

Conditions to avoid	:	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.
Incompatible materials	:	Reactive or incompatible with the following materials: oxidizing materials
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# Section 11. Toxicological information

### Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
heptan-2-one	LD50 Oral	Rat	1600 mg/kg	-
Hexamethylene diisocyanate, oligomers	LC50 Inhalation	Rat	18500 mg/m³	1 hours
pentane-2,4-dione	LD50 Oral	Rat	570 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation	
heptan-2-one	Skin - Mild irritant	Rabbit	-	24 hours 14 milligrams	-	
Hexamethylene diisocyanate, oligomers	Eyes - Moderate irritant	Rabbit	-	100 milligrams	-	
	Skin - Moderate irritant	Rabbit	-	500 milligrams	-	
pentane-2,4-dione	Eyes - Severe irritant	Rabbit	-	20 milligrams	-	
	Skin - Mild irritant	Rabbit	-	488 milligrams	-	
	Skin - Mild irritant	Rabbit	-	6 hours 11.2 Mililiters Intermittent	-	
	Skin - Moderate irritant	Rabbit	-	48 hours 11. 2 Mililiters Intermittent	-	
	Skin - Moderate irritant	Rabbit	-	6 hours 33.6 Mililiters Intermittent	-	

### **Sensitization**

Not available.

#### **Mutagenicity**

Not available.

#### **Carcinogenicity**

Not available.

#### Reproductive toxicity

Not available.

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High Solids Polyurethane Enamel Gloss X-501 Curing Solution				
Section 11. Toxico	logical information			
<u>Teratogenicity</u> Not available.				
<u>Specific target organ toxicit</u> Not available.	<u>y (single exposure)</u>			
Specific target organ toxicit Not available.	y (repeated exposure)			
Aspiration hazard Not available.				
Information on the likely routes of exposure	: Not available.			
Potential acute health effects				
Eye contact	: No known significant effects or critical hazards.			
Inhalation	: No known significant effects or critical hazards.			
Skin contact	: No known significant effects or critical hazards.			
Ingestion	: Harmful if swallowed.			
Symptoms related to the phy	sical, chemical and toxicological characteristics			
Eye contact	: No specific data.			
Inhalation	: No specific data.			
Skin contact	: No specific data.			
Ingestion	: No specific data.			
Delayed and immediate effec	ts and also chronic effects from short and long term exposure			
<u>Short term exposure</u> Potential immediate effects	: Not available.			
Potential delayed effects	: Not available.			
Long term exposure				
Potential immediate effects	: Not available.			
Potential delayed effects	: Not available.			
Potential chronic health effe	ects			
Not available.				
General	· No known significant effects or critical bazards			

General	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

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Section 11. Toxicological information

#### Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	1523.2 mg/kg

# Section 12. Ecological information

Toxicity			
Product/ingredient name	Result	Species	Exposure
heptan-2-one	Acute LC50 131000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
pentane-2,4-dione	Acute EC50 75000 µg/l Fresh water	Crustaceans - Ceriodaphnia reticulata - Larvae	48 hours
	Acute LC50 47600 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 60100 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours

### Persistence and degradability

Not available.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
heptan-2-one Hexamethylene diisocyanate, oligomers	2.26 5.54	- 367.7	low low
pentane-2,4-dione	0.68	-	low

#### Mobility in soil

Soil/water partition : Not available. coefficient (Koc)

Other adverse effects

: No known significant effects or critical hazards.

# Section 13. Disposal considerations

Disposal methods: The generation of waste should be avoided or minimized wherever possible. Disposal<br/>of this product, solutions and any by-products should at all times comply with the<br/>requirements of environmental protection and waste disposal legislation and any<br/>regional local authority requirements. Dispose of surplus and non-recyclable products<br/>via a licensed waste disposal contractor. Waste should not be disposed of untreated to<br/>the sewer unless fully compliant with the requirements of all authorities with jurisdiction.<br/>Waste packaging should be recycled. Incineration or landfill should only be considered<br/>when recycling is not feasible. This material and its container must be disposed of in a<br/>safe way. Care should be taken when handling emptied containers that have not been<br/>cleaned or rinsed out. Empty containers or liners may retain some product residues.

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## Section 13. Disposal considerations

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.

# Section 14. Transport information

**Special precautions for user** : Please Note: The information provided in section 14 is based on a bulk package shipment via ground transport in North America. All shippers are responsible for ensuring the proper transportation classification and package/container requirements are followed for the relevant mode of transport.

**Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

	DOT Classification	TDG Classification	Mexico Classification	IMDG	ΙΑΤΑ
UN number	UN1263	UN1263	UN1263	UN1263	UN1263
UN proper shipping name	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL
Transport hazard class(es)	3	3	3	3	3
Packing group	Ш	Ш	Ш	Ш	III
Environmental hazards	No.	No.	No.	No.	No.

# Section 15. Regulatory information

#### **U.S. Federal regulations**

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

#### SARA 311/312

Classification

: Fire hazard Immediate (acute) health hazard

#### California Prop. 65

Based on available information, no listed components are known to be present.

#### International lists

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# Section 15. Regulatory information

National inventory	
Australia	: All components are listed or exempted.
Canada	: All components are listed or exempted.
China	: All components are listed or exempted.
Europe	: All components are listed or exempted.
Japan	: Japan inventory (ENCS): All components are listed or exempted. Japan inventory (ISHL): At least one component is not listed.
Malaysia	: At least one component is not listed.
New Zealand	: All components are listed or exempted.
Philippines	: All components are listed or exempted.
Republic of Korea	: All components are listed or exempted.
Taiwan	: All components are listed or exempted.
Turkey	: At least one component is not listed.

# Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health *		
Flammability		3
Physical hazards		

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

#### National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

#### **History**

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Section 16. Other information					
Date of issue/Date of revision	:	1 June 2020			
Version	:	6.13			
MSDS #	:	007975	0008	0001DC1300	
Key to abbreviations	:	IATA = Internatio IBC = Internedia IMDG = Internati LogPow = logarit MARPOL = Inter	ntration Factor Harmonized System of nal Air Transport Ass te Bulk Container onal Maritime Danger hm of the octanol/wa national Convention f Protocol of 1978. ("Ma		3 as

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.