

SAFETY DATA SHEET

646-58 Topcoat GL 041517 FSB 14090 Green

Section 1. Identification

GHS product identifier Other means of identification	 646-58 Topcoat GL 041517 FSB 14090 Green 772747 041517 GRN SBTC 58SR 646 GL \$ FSB 14090
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 May 2023 : 1 : 1 May 2023

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 CARCINOGENICITY - Category 2

GHS label elements

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Hazard pictograms : Signal word : Hazard statements : Warning Hazard statements : Flammable liquid and vapor. Harmful if swallowed. Suspected of causing cancer. Precautionary statements	
Hazard statements : Flammable liquid and vapor. Harmful if swallowed. Suspected of causing cancer.	
Harmful if swallowed. Suspected of causing cancer.	
Precautionary statements	
Prevention : Obtain special instructions before use. Do not handle un been read and understood. Wear protective gloves. We Wear protective clothing. Keep away from heat, hot surfaction sources. No smoking. Use explosion-proof and all material-handling equipment. Use only non-spark measures against static discharge. Ground/bond contair Keep container tightly closed. Do not eat, drink or smoke Wash hands thoroughly after handling.	ear eye or face protection. aces, sparks, open flames and electrical, ventilating, lighting king tools. Take precautionary ner and receiving equipment.
Response : IF exposed or concerned: Get medical attention. IF SW, CENTER or physician if you feel unwell. Rinse mouth. Il immediately all contaminated clothing. Rinse skin with w	F ON SKIN (or hair): Take off
Storage : Store locked up. Store in a well-ventilated place. Keep of	cool.
Disposal : Dispose of contents and container in accordance with all international regulations.	local, regional, national and
Hazards not otherwise : None known. classified	

Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Ingredient name	%	CAS number
heptan-2-one	25 - 30	110-43-0
aluminium hydroxide	15 - 20	21645-51-2
titanium dioxide	1 - 5	13463-67-7
polychloro copper phthalocyanine	1 - 5	1328-53-6
ethylbenzene	0 - 1	100-41-4
carbon black, respirable powder	0 - 1	1333-86-4

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 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. 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 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 : 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		
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 ₂ , 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	 Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides
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	 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.
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 co	ntainment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste

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
explosion-proof equipment. Approach release from upwind. Prevent entry into sewers,
water courses, basements or confined areas. Wash spillages into an effluent treatment
plant or proceed as follows. 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). Dispose of via a
licensed waste disposal contractor. Contaminated absorbent material may pose the
same hazard as the spilled product. Note: see Section 1 for emergency contact
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
heptan-2-one	ACGIH TLV (United States, 3/2016). TWA: 233 mg/m ³ 8 hours. TWA: 50 ppm 8 hours. NIOSH REL (United States, 10/2016). TWA: 465 mg/m ³ 10 hours. TWA: 100 ppm 10 hours. OSHA PEL (United States, 6/2016). TWA: 465 mg/m ³ 8 hours.

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Section 8. Exposure controls/personal protection

aluminium hydroxide	TWA: 100 ppm 8 hours. ACGIH TLV (United States, 3/2016).
	TWA: 1 mg/m ³ 8 hours. Form: Respirable
	fraction
titanium dioxide	OSHA PEL (United States, 6/2016).
	TWA: 15 mg/m ³ 8 hours. Form: Total dust
	ACGIH TLV (United States, 3/2016).
	TWA: 10 mg/m ³ 8 hours.
polychloro copper phthalocyanine	
ethylbenzene	ACGIH TLV (United States, 3/2016).
	TWA: 20 ppm 8 hours. NIOSH REL (United States, 10/2016).
	STEL: 545 mg/m ³ 15 minutes.
	STEL: 125 ppm 15 minutes.
	TWA: 435 mg/m ³ 10 hours.
	TWA: 100 ppm 10 hours.
	OSHA PEL (United States, 6/2016).
	TWA: 435 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
carbon black, respirable powder	ACGIH TLV (United States, 3/2016).
	TWA: 3 mg/m ³ 8 hours. Form: Inhalable
	fraction
	NIOSH REL (United States, 10/2016).
	TWA: 3.5 mg/m ³ 10 hours.
	TWA: 0.1 mg of PAHs/cm ³ 10 hours.
	OSHA PEL (United States, 6/2016).
	TWA: 3.5 mg/m ³ 8 hours.

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 measure	<u>es</u>	
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.

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Section 8. Exposure controls/personal protection

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.

Section 9. Physical and chemical properties

Appearance

Appearance				
Physical state	:	Liquid.		
Color		Green.		
Odor	:	Typical.		
Odor threshold	:	Not available.		
рН	:	Not available.		
Melting/freezing point	:	Not available.		
Boiling point	:	139°C (282.2°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		osive limits		
Upper:	:	Not determined.		
Lower:	:	Not determined.		
Vapor pressure	:	Not available.		
Vapor density	:	Not available.		
Relative density	:	1.143		
Density	ensity : 9.54 lbs/gal 1.143 g/			
Solubility	: Not available.			
Solubility in water	: Not available.			
Partition coefficient: n- octanol/water		Not available.		

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Section 9. Physical and chemical properties Auto-ignition temperature : Not available. **Decomposition temperature** : Not available. Viscosity : Kinematic (room temperature): 3.5 cm²/s (350 cSt) Weight Volatiles : 30.64% (w/w) Volume Volatiles : 42.04 %(v/v) Weight Solids : 69.36 %(w/w) **Volume Solids** : 57. %(v/v) 959202972 **Regulatory VOC** : 2.9 lbs/gal 350 g/l minus water and exempt solvents **VOC Actual** : 2.9 lbs/gal 350 g/l Section 10. Stability and reactivity : No specific test data related to reactivity available for this product or its ingredients. Reactivity **Chemical stability** : The product is stable. Possibility of hazardous : Under normal conditions of storage and use, hazardous reactions will not occur. reactions 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. : Reactive or incompatible with the following materials: Incompatible materials oxidizing materials Hazardous decomposition : Under normal conditions of storage and use, hazardous decomposition products should products not be produced.

Section 11. Toxicological information

Information on toxicological effects

Product/ingredient name	Result	Species	Dose	Exposure
heptan-2-one	LD50 Oral	Rat	1600 mg/kg	-
ethylbenzene	LD50 Dermal	Rabbit	>5000 mg/kg	-
5	LD50 Oral	Rat	3500 mg/kg	-
carbon black, respirable	LD50 Oral	Rat	>15400 mg/kg	-
powder				

Irritation/Corrosion

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To request an updated SDS please visit http://www.formstack.com/forms/AkzoNobel-document_request_form

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Section 11. Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
heptan-2-one	Skin - Mild irritant	Rabbit	-	24 hours 14 milligrams	-
titanium dioxide	Skin - Mild irritant	Human	-	72 hours 300 Micrograms Intermittent	-
ethylbenzene	Eyes - Severe irritant	Rabbit	-	500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 15 milligrams	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
titanium dioxide ethylbenzene carbon black, respirable powder	- -	2B 2B 2B	

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure) Not available.

Aspiration hazard

Name	Result
ethylbenzene	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure : Not available. Potential acute health effects : No known significant effects or critical hazards. Eye contact : No known significant effects or critical hazards.

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Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.

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Section 11. Toxico	ological information	
Ingestion	: Harmful if swallowed.	
Symptoms related to the phy	vsical, 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 effe	cts and also chronic effects from short and long term exposure	
Short term exposure		
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 ef	ects	
Not available.		
General	: No known significant effects or critical hazards.	
Carcinogenicity	: Suspected of causing cancer. Risk of cancer depends on duration exposure.	and level of
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	1879.2 mg/kg

Section 12. Ecological information

<u>Toxicity</u>

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Section 12. Ecological information

Product/ingredient name	Result	Species	Exposure
heptan-2-one	Acute LC50 131000 to 137000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
ethylbenzene	Acute EC50 4600 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 3600 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 2930 to 4400 μg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 40000 µg/l Marine water	Crustaceans - Cancer magister - Zoea	48 hours
	Acute LC50 4200 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
carbon black, respirable powder	Acute EC50 37.563 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
heptan-2-one	2.26	-	low
ethylbenzene	3.6	-	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 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	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
		Delayed (chronic) health hazard

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	ethylbenzene	100-41-4	0.1 - 1

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

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.

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To request an updated SDS please visit http://www.formstack.com/forms/AkzoNobel-document_request_form

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Section 15. Regulatory information

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
titanium dioxide	Yes.	No.	No.	No.
ethylbenzene	Yes.	No.	No.	No.
carbon black, respirable powder	Yes.	No.	No.	7000 µg/day
toluene	No.	Yes.	No.	(ingestion)

International lists

National inventory	
Australia	: All components are listed or exempted.
Canada	: All components are listed or exempted.
China	: All components are listed or exempted.
Europe	: At least one component is not listed in EINECS but all such components are listed in ELINCS.
	Please contact your supplier for information on the inventory status of this material.
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	*	2
Flammability		3
Physical hazards		0

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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Section 16. Other information



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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.

<u>History</u>

Date of issue/Date of revision Version MSDS #	:	1	008
Key to abbreviations	:	IATA = International Air Tra IBC = Internediate Bulk Co IMDG = International Maritin LogPow = logarithm of the of MARPOL = International Co	ctor d System of Classification and Labelling of Chemicals Insport Association Intainer

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.

AkzoNobel

SAFETY DATA SHEET

High Solids Polyurethane Enamel Gloss X-501 Curing Solution

Section 1. Identification

GHS product identifier Other means of identification	 High Solids Polyurethane Enamel Gloss X-501 Curing Solution X-501_Curing Solution
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	: 14 April 2023 : 15.46 : 14 April 2023

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 SKIN SENSITIZATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

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

Section 2. Hazards identification				
GHS label elements Hazard pictograms				
Signal word Hazard statements	 Warning Flammable liquid and vapor. May cause an allergic skin reaction. May cause respiratory irritation. 			
Precautionary statements	2			
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 explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Ground/bond container and receiving equipment. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Contaminated work clothing must not be allowed out of the workplace.			
Response	: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention.			
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.			
Hazards not otherwise classified	: None known.			

Section 3. Composition/information on ingredients

Substance/mixture

: 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.

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Section 4. First aid measures

Description of neces	sary 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.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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 necessary, call a poison center or physician. 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	: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. 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 adverse health effects persist or are severe. 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	
Eye contact	No known significant effects or critical hazards.
Inhalation :	May cause respiratory irritation.
Skin contact	May cause an allergic skin reaction.
Ingestion :	No known significant effects or critical hazards.
Over-exposure signs/sympton	<u>ns</u>
Eye contact	No specific data.
Inhalation :	Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	Adverse symptoms may include the following: irritation redness
Ingestion :	No specific data.
Indication of immediate medica	I 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.

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Section 4. First aid measures

Specific treatments	: No specific treatment.
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.

See toxicological information (Section 11)

Section 5. Fire-fighting measures		
Extinguishing media		
Suitable extinguishing media	: Use dry chemical, CO ₂ , 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	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides	
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, protective equipment and emergency procedures		
For non-emergency personnel	: 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.	
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

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Section 6. Accidental release measures

Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. 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). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact 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). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. 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

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Section 8. Exposure controls/personal protection

Ingredient name	Exposure limits
heptan-2-one	ACGIH TLV (United States, 3/2016). TWA: 50 ppm 8 hours. TWA: 233 mg/m ³ 8 hours. NIOSH REL (United States, 10/2016). TWA: 100 ppm 10 hours. TWA: 465 mg/m ³ 10 hours. OSHA PEL (United States, 6/2016). TWA: 100 ppm 8 hours. TWA: 465 mg/m ³ 8 hours.
Hexamethylene diisocyanate, oligomers pentane-2,4-dione	None. (United States, 3/2018). Absorbed through skin. TWA: 25 ppm 8 hours.

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 measure	<u>S</u>
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. Contaminated work clothing should not be allowed out of the workplace. 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	
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.

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Section 8. Exposure controls/personal protection

	thing
Other skin protection : Appropriate footwear and any additional skin protection measures should be sele based on the task being performed and the risks involved and should be approve 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 importa aspects of use.	

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)	:	Not available.
Upper/lower flammability or exp	olo	osive limits
Upper:	:	Not determined.
Lower:	:	Not determined.
Vapor pressure	:	Not available.
Vapor density	:	Not available.
Relative density	:	0.96
Density	:	8.01 lbs/gal 0.96 g/cm ³
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 cm ² /s (115 cSt)
Weight Volatiles	:	50.93% (w/w)
Volume Volatiles	:	59.76 %(v/v)
Weight Solids	:	49.07 %(w/w)
Volume Solids	:	40.24 %(v/v)

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High Solids Polyurethane En	amel Gloss X-501 Curing Solution Pa	age: 8/14	
Section 9. Physic	al and chemical properties		
Regulatory VOC	: 4.1 lbs/gal 489 g/l minus water and exempt solvents		
VOC Actual	: 4.1 lbs/gal 489 g/l		
Section 10. Stability and reactivity			
Reactivity	: No specific test data related to reactivity available for this product or its ingred	dients.	
Chemical stability	: The product is stable.		
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occ	ur.	
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut braze, solder, drill, grind or expose containers to heat or sources of ignition.	, weld,	
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials		
Hazardous decomposition products	 Under normal conditions of storage and use, hazardous decomposition produnot be produced. 	ucts should	

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
heptan-2-one Hexamethylene diisocyanate, oligomers	LD50 Oral LC50 Inhalation		1600 mg/kg 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	-

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High Solids Polyurethane Enamel Gloss X-501 Curing Solution Section 11. Toxicological information Mililiters Intermittent **Sensitization**

Not available.

Mutagenicity

Not available.

Carcinogenicity Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name		Category	Route of exposure	Target organs	
Hexamethylene diisocyana	te, oligomers	Category 3	Not applicable.	Respiratory trac irritation	
Specific target organ toxi	<u>city (repeated exposure)</u>		L	•	
Not available.					
Aspiration hazard					
Not available.					
formation on the likely outes of exposure	: Not available.				
otential acute health effec	<u>ets</u>				
Eye contact	: No known significant effects or critical hazards.				
Inhalation	: May cause respiratory irritation.				
Skin contact	: May cause an allergic skin reaction.				
Ingestion	: No known significant effects or critical hazards.				
ymptoms related to the pl	oveical chemical and tovi	icological characteris	tics		
Eve contact	: No specific data.				
Inhalation	 Adverse symptoms may include the following: respiratory tract irritation coughing 				
Skin contact	: Adverse symptoms may include the following: irritation redness				
Ingestion	: No specific data.				

Delayed and immediate effects and also chronic effects from short and long term exposure

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Section 11. Toxicological information

Short term exposure						
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 effects						
Not available.						
a .						

General	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
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.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	2975.2 mg/kg
Inhalation (vapors)	22.54 mg/l

Section 12. Ecological information

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

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Section 12. Ecological information

Product/ingredient name	LogPow	BCF	Potential
heptan-2-one Hexamethylene diisocyanate,	2.26 5.54		low low
oligomers 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

ration of waste should be avoided or minimized wherever possible. Disposal oduct, solutions and any by-products should at all times comply with the
ents of environmental protection and waste disposal legislation and any ocal authority requirements. Dispose of surplus and non-recyclable products used waste disposal contractor. Waste should not be disposed of untreated to unless fully compliant with the requirements of all authorities with jurisdiction.
ckaging should be recycled. Incineration or landfill should only be considered ycling is not feasible. This material and its container must be disposed of in a Care should be taken when handling emptied containers that have not been or rinsed out. Empty containers or liners may retain some product residues. m product residues may create a highly flammable or explosive atmosphere container. Do not cut, weld or grind used containers unless they have been horoughly internally. Avoid dispersal of spilled material and runoff and contact
е

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

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Section 14.	Transpo	rt informa	tion		
Transport hazard class(es)	3	3	3	3	3
Packing group	111	III	III	111	Ш
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	
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.

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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 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

Date of issue/Date of revision Version MSDS #	:	14 April 2023 15.46 007975	0008
Key to abbreviations	:	 ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 19 modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations 	

Notice to reader

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Section 16. Other information

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.