SAFETY DATA SHEET

MH-062

Section 1. Identification		
Product name	: PREMIUM HARDENER - NORMAL	
Product code	: MH-062	
Other means of identification	: Not available.	
Product type	: Liquid.	
Relevant identified uses of t	he substance or mixture and uses advised against	
Paint or paint related material.		
Manufacturer	: Valspar Automotive 101 W. Prospect Ave., Cleveland, OH 44115 USA	
Emergency telephone number of the company	: US / Canada: (216) 566-2917 Mexico: 55-4160-8800 / 55-4160-8819 Monday to Friday from 8:30 a.m. to 5:30 p.m.	
Product Information Telephone Number	: US / Canada: 1-800-844-3691 Option 3 Mexico: 55-5333-1500	
Transportation Emergency Telephone Number	: US / Canada: (800) 424-9300 Mexico: SETIQ 800-00-214-00 / 55-5559-1588 Available 24 hours and 365 days a year	
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 2 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A RESPIRATORY SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 9.1%
	(oral), 9.1% (dermal), 9.1% (inhalation)
GHS label elements	
Hazard pictograms	

Signal word

: Danger



Section 2. Hazards identification

Hazard statements	 Highly flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. 		
Precautionary statements			
Prevention	: Wear protective gloves, protective clothing, eye protection, face protection, or hearing protection. Wear respiratory protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Wash thoroughly after handling. Contaminated work clothing should 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 doctor if you feel unwell. If experiencing respiratory symptoms: Call a POISON CENTER or doctor. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.		
Storage	: Store locked up. Store in a well-ventilated place. Keep container tightly closed.		
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.		
Supplemental label elements	DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. FOR PROFESSIONAL USE ONLY. This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS. VAPOR AND SPRAY MIST HARMFUL. Gives off harmful vapor of solvents and isocyanates. DO NOT USE IF YOU HAVE CHRONIC (LONG-TERM) LUNG OR BREATHING PROBLEMS, OR IF YOU HAVE EVER HAD A REACTION TO ISOCYANATES. USE ONLY WITH ADEQUATE VENTILATION. WHERE OVERSPRAY IS PRESENT, A POSITIVE PRESSURE AIR SUPPLIED RESPIRATOR (NIOSH approved) SHOULD BE WORN TO PREVENT EXPOSURE. IF UNAVAILABLE, AN APPROPRIATE PROPERLY FITTED APPROVED NIOSH VAPOR/PARTICULATE RESPIRATOR MAY BE EFFECTIVE. Follow directions for respirator use. Wear the respirator for the whole time of spraying and until all vapors and mists are gone. If you have any breathing problems during use, LEAVE THE AREA and get fresh air. If problems remain or happen later, IMMEDIATELY call a doctor - If not available get emergency medical treatment. Have this label with you. Reacts with water in closed container to produce pressure which may cause container to burst.		
	Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage.		
Hazards not otherwise classified	: None known.		

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of	• Not avai

Other means of identification

: Not available.

CAS number/other identifiers

Date of issue/Date of revision Date of previous issue : 4/9/2025 MH-062 PREMIUM HARDENER - NORMAL

: 12/14/2024

Section 3. Composition/information on ingredients

Ingredient name	% by weight	Identifiers
Hexamethylene Diisocyanate Polymer	≥50 - ≤75	28182-81-2
Methyl Ethyl Ketone	≥25 - ≤50	78-93-3
Isophorone Diisocyanate Polymer	≤10	53880-05-0
n-Butyl Acetate	≤5	123-86-4
Light Aromatic Hydrocarbons	≤5	64742-95-6
trimethylbenzene	<1	25551-13-7
1,3,5-Trimethylbenzene	≤0.3	108-67-8
1,2,4-Trimethylbenzene	≤0.3	95-63-6
Hexamethylene Diisocyanate (max.)	≤0.3	822-06-0

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 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.
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. In the event of any complaints or symptoms, avoid further exposure.
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. 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.
Moot important cumptoms/off	acta couta and delayed

Most important symptoms/effects, acute and delayed						
Potential acute health ef	<u>fects</u>					
Eye contact	: Causes seri	ous eye irritation.				
Inhalation	dizziness. N	central nervous system (/ay cause respiratory irri fficulties if inhaled.				ns or
Skin contact	: Causes skin	irritation. May cause ar	n allergic skin reactio	n.		
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Section 4. First aid measures

Investion	· Con source control nonvous sustant (CNC) demassion		
Ingestion	: Can cause central nervous system (CNS) depression.		
Over-exposure signs/sym			
Eye contact	Adverse symptoms may include the following: pain or irritation watering redness		
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing wheezing and breathing difficulties asthma nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness		
Skin contact	: Adverse symptoms may include the following: irritation redness		
Ingestion	: No specific data.		
Indication of immediate me	edical 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. 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

: Use dry chemical, CO ₂ , water spray (fog) or foam.
: Do not use water jet.
: Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.
: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides

Section 5. Fire-fighting measures

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 Remark	 Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Flammable liquid.

Section 6. Accidental release measures

Personal precautions, protect	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	ontainment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Absorb with an inert 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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. 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.

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 or asthma, allergies or chronic or recurrent respiratory disease 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.
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Section 7. Handling and storage

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-ventilat 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.	

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits (OSHA United States)

Ingredient name	CAS #	Exposure limits
Hexamethylene Diisocyanate Polymer Methyl Ethyl Ketone	28182-81-2 78-93-3	None. ACGIH TLV (United States, 1/2024) Absorbed through skin. TWA 8 hours: 75 ppm. STEL 15 minutes: 150 ppm. NIOSH REL (United States, 10/2020) TWA 10 hours: 200 ppm. TWA 10 hours: 590 mg/m ³ . STEL 15 minutes: 300 ppm. STEL 15 minutes: 885 mg/m ³ . OSHA PEL (United States, 5/2018) TWA 8 hours: 200 ppm. TWA 8 hours: 590 mg/m ³ .
Isophorone Diisocyanate Polymer n-Butyl Acetate	53880-05-0 123-86-4	None. ACGIH TLV (United States, 1/2024) [Butyl acetates] STEL 15 minutes: 150 ppm. TWA 8 hours: 50 ppm. NIOSH REL (United States, 10/2020) TWA 10 hours: 150 ppm. TWA 10 hours: 710 mg/m ³ . STEL 15 minutes: 200 ppm. STEL 15 minutes: 950 mg/m ³ . OSHA PEL (United States, 5/2018) TWA 8 hours: 150 ppm. TWA 8 hours: 710 mg/m ³ .
Light Aromatic Hydrocarbons trimethylbenzene	64742-95-6 25551-13-7	None. ACGIH TLV (United States, 1/2024) [trimethyl benzene, isomers] TWA 8 hours: 10 ppm.
1,3,5-Trimethylbenzene	108-67-8	ACGIH TLV (United States, 1/2024) [trimethyl benzene, isomers] TWA 8 hours: 10 ppm. NIOSH REL (United States, 10/2020) TWA 10 hours: 25 ppm. TWA 10 hours: 125 mg/m ³ .
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Section 8. Exposure controls/personal protection

,2,4-Trimethylbenzene	95-63-6	ACGIH TLV (United States, 1/2024) A4.
		TWA 8 hours: 10 ppm.
		NIOSH REL (United States, 10/2020)
		TWA 10 hours: 25 ppm.
		TWA 10 hours: 125 mg/m ³ .
lexamethylene Diisocyanate (max.)	822-06-0	ACGIH TLV (United States, 1/2024)
		TWA 8 hours: 0.005 ppm.
		TWA 8 hours: 0.03 mg/m ³ .
		NIOSH REL (United States, 10/2020)
		TWA 10 hours: 0.005 ppm.
		TWA 10 hours: 0.035 mg/m ³ .
		CEIL 10 minutes: 0.02 ppm.
		CEIL 10 minutes: 0.14 mg/m ³ .

Occupational exposure limits (Canada)

Ingredient name	CAS #	Exposure limits	
Methyl ethyl ketone	78-93-3	 CA Saskatchewan Provincial (Canada, 4/2021) STEL 15 minutes: 300 ppm. TWA 8 hours: 200 ppm. CA British Columbia Provincial (Canada, 4/2024) Repr. Absorbed through skin. TWA 8 hours: 50 ppm. STEL 15 minutes: 100 ppm. CA Ontario Provincial (Canada, 6/2019) TWA 8 hours: 200 ppm. STEL 15 minutes: 300 ppm. CA Quebec Provincial (Canada, 2/2024) TWAEV 8 hours: 50 ppm. TWAEV 8 hours: 150 mg/m³. STEV 15 minutes: 100 ppm. STEV 15 minutes: 300 mg/m³. CA Alberta Provincial (Canada, 3/2023) OEL 15 minutes: 300 ppm. OEL 8 hours: 590 mg/m³. OEL 15 minutes: 885 mg/m³. 	
lsophorone Diisocyanate Polymer n-butyl acetate	53880-05-0 123-86-4	 OEL 15 minutes: 885 mg/m³. CA Quebec Provincial (Canada, 2/2024) [Isocyanate oligomers] Sensitizer. CA Saskatchewan Provincial (Canada, 4/2021) STEL 15 minutes: 200 ppm. TWA 8 hours: 150 ppm. CA British Columbia Provincial (Canada, 4/2024) [butyl acetate, all isomers] STEL 15 minutes: 150 ppm. TWA 8 hours: 50 ppm. CA Ontario Provincial (Canada, 6/2019) [butyl acetates, all isomers] STEL 15 minutes: 150 ppm. TWA 8 hours: 50 ppm. CA Quebec Provincial (Canada, 2/2024) [butyl acetates] STEV 15 minutes: 150 ppm. TWAEV 8 hours: 50 ppm. CA Alberta Provincial (Canada, 3/2023) 	

Section 8. Exposure controls/personal protection

		-
		OEL 15 minutes: 200 ppm. OEL 15 minutes: 950 mg/m ³ . OEL 8 hours: 150 ppm. OEL 8 hours: 713 mg/m ³ .
Hexamethylene diisocyanate	822-06-0	 CA Saskatchewan Provincial (Canada, 4/2021) STEL 15 minutes: 0.015 ppm. TWA 8 hours: 0.005 ppm. CA British Columbia Provincial (Canada, 4/2024) Inhalation sensitizer. TWA 8 hours: 0.005 ppm. C: 0.01 ppm. CA Ontario Provincial (Canada, 6/2019) [Isocyanates, organic compounds] Ceiling Limit: 0.02 ppm. TWA 8 hours: 0.005 ppm. CA Quebec Provincial (Canada, 2/2024) Sensitizer. TWAEV 8 hours: 0.005 ppm. TWAEV 8 hours: 0.005 ppm. TWAEV 8 hours: 0.034 mg/m³. CA Alberta Provincial (Canada, 3/2023) OEL 8 hours: 0.03 mg/m³.

Occupational exposure limits (Mexico)

Ingredient name	CAS #	Exposure limits
Methyl Ethyl Ketone n-Butyl Acetate	78-93-3 123-86-4	NOM-010-STPS-2014 (Mexico, 4/2016) TWA 8 hours: 200 ppm. STEL 15 minutes: 300 ppm. NOM-010-STPS-2014 (Mexico, 4/2016) TWA 8 hours: 150 ppm. STEL 15 minutes: 200 ppm.

Biological exposure indices (United States)

Ingredient name	Exposure indices
Methyl Ethyl Ketone	ACGIH BEI (United States, 1/2024) BEI: 2 mg/l, methyl ethyl ketone [in urine]. Sampling time: end of shift.
Hexamethylene Diisocyanate (max.)	ACGIH BEI (United States, 1/2024) BEI: 15 μg/g creatinine, 1,6-hexamethylene diamine [in urine]. Sampling time: end of shift.

Biological exposure indices (Canada)

No exposure indices known.

Biological exposure indices (Mexico)

Ingredient name	Exposure indices
Methyl Ethyl Ketone	Official Mexican STANDARD NOM- 047-SSA1-2011, Environmental Health- Biological exposure indices for personnel occupationally exposed to chemical substances. (Mexico, 6/2012) BEI: 2 mg/L, MEK [in urine]. Sampling time: at the end of the work shift.

Section 8. Exposure controls/personal protection

Appropriate engineering controls	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation other engineering controls to keep worker exposure to airborne contaminants below a 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. 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		
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: chemical splash goggles.	
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 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.	is
Body protection	Personal protective equipment for the body should be selected based on the task bein 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 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

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

<u>Appearance</u>		
Physical state	:	Liquid.
Color	:	Clear.
Odor	:	Not available.
Odor threshold	:	Not available.
рН	:	Not applicable.
Melting point/freezing point	:	Not available.

Section 9. Physical and chemical properties

Boiling point or initial boiling point and boiling range	: 78°C (172.4°F)	
Flash point	: Closed cup: 18°C (64.4°F) [Pensky-Martens Closed Cup]	
Evaporation rate	: 5.6 (butyl acetate = 1)	
Flammability	: Flammable liquid.	
Lower and upper explosion limit/flammability limit	: Lower: 0.7% Upper: 10%	
Vapor pressure	: 12.1 kPa (90.6 mm Hg)	
Relative vapor density	: 2.48 [Air = 1]	
Relative density	: 0.99	
Density	: 0.99 g/cm ³	
Solubility(ies)	:	
Media	Result	
cold water	Not soluble	
Partition coefficient: n- octanol/water	: Not applicable.	
Auto-ignition temperature	: Not available.	
Decomposition temperature	: Not available.	
Viscosity	 Dynamic (room temperature): Not available. Kinematic (room temperature): Not available. Kinematic (40°C (104°F)): >20.5 mm²/s (>20.5 cSt) 	
Molecular weight	: Not applicable.	
Particle characteristics		
Median particle size	: Not applicable.	
Heat of combustion	: 12.689 kJ/g	

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. Do not allow vapor to accumulate in low or confined areas.
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.

formation on toxicological effects	
Acute toxicity	
Product/ingredient name	Result
Hexamethylene Diisocyanate Polymer	Rat - Inhalation - LC50 Dusts and mists
	18500 mg/m ³ [1 hours]
Methyl Ethyl Ketone	Rabbit - Dermal - LD50
	6480 mg/kg Rat - Oral - LD50
	2737 mg/kg
n-Butyl Acetate	Rat - Oral - LD50
	10768 mg/kg
	<u>Toxic effects</u> : Behavioral - Somnolence (general depressed
	activity) Lung, Thorax, or Respiration - Other changes Liver -
	Other changes
	Rabbit - Dermal - LD50 >17600 mg/kg
Light Aromatic Hydrocarbons	Rat - Oral - LD50
	8400 mg/kg
	Toxic effects: Behavioral - Somnolence (general depressed
	activity) Behavioral - Tremor Lung, Thorax, or Respiration - Othe
	changes
trimethylbenzene	Rat - Oral - LD50
1,3,5-Trimethylbenzene	8970 mg/kg Rat - Oral - LD50
	5000 mg/kg
	Rat - Inhalation - LC50 Vapor
	24000 mg/m³ [4 hours]
1,2,4-Trimethylbenzene	Rat - Oral - LD50
	5 g/kg
	Rat - Inhalation - LC50 Vapor
Hexamethylene Diisocyanate (max.)	18000 mg/m³ [4 hours] Rat - Inhalation - LC50 Dusts and mists
	124 mg/m ³ [4 hours]
Conclusion/Summary [Product] : Not	t available.
Skin corrosion/irritation	
Product/ingredient name	Result
Hexamethylene Diisocyanate Polymer	Rabbit - Skin - Moderate irritant
	Amount/concentration applied: 500 milligrams
Methyl Ethyl Ketone	Rabbit - Skin - Mild irritant
	Duration of treatment/exposure: 24 hours
	<u>Amount/concentration applied</u> : 14 mg Rabbit - Skin - Mild irritant
	Duration of treatment/exposure: 24 hours
	Amount/concentration applied: 402 mg
	Rabbit - Skin - Moderate irritant
	Duration of treatment/exposure: 24 hours
	Amount/concentration applied: 500 mg
n-Butyl Acetate	Rabbit - Skin - Moderate irritant
	Duration of treatment/exposure: 24 hours
trimethylhenzone	Amount/concentration applied: 500 mg
trimethylbenzene	Rabbit - Skin - Moderate irritant Duration of treatment/exposure: 24 hours

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Date of previous issue

: 12/14/2024

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Conclusion/Summary [Product]	:	Not available.				
Not available.						
Carcinogenicity						
Conclusion/Summary [Product]	:	Not available.				
<u>Germ cell mutagenicity</u> Not available.						
Conclusion/Summary [Product]	:	Not available.				
Respiratory						
Skin Conclusion/Summary [Product]	:	Not available.				
Not available.						
Respiratory or skin sensitization						
Conclusion/Summary [Product]	:	Not available.				
Not available.						
Respiratory corrosion/irritation						
Conclusion/Summary [Product]	:	Not available.				
			<u>eatment/exposure</u> : 24 hour <u>entration applied</u> : 500 mg	S		
1,3,5-Trimethylbenzene		Amount/conc	entration applied: 500 mg s - Mild irritant	-		
trimethylbenzene		Rabbit - Eye	s - Mild irritant eatment/exposure: 24 hour	s		
Light Aromatic Hydrocarbons		Duration of tr	s - Mild irritant <u>eatment/exposure</u> : 24 hour entration applied: 100 uL	S		
n-Butyl Acetate		Amount/conc	s - Moderate irritant entration applied: 100 mg			
Hexamethylene Diisocyanate Polymer		-	s - Moderate irritant entration applied: 100 millig	grams		
Product/ingredient name		Result				
Serious eye damage/eye irritation						
Conclusion/Summary [Product]	:	Not available.				
			eatment/exposure: 24 hour entration applied: 20 mg	S		
1,3,5-Trimethylbenzene		Rabbit - Skir	entration applied: 500 mg n - Moderate irritant			

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Reproductive toxicity

Not available.

Conclusion/Summary [Product] : Not available.

Specific target organ toxicity (single exposure)	
Product/ingredient name	Result
Hexamethylene Diisocyanate Polymer	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
Methyl Ethyl Ketone	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
Isophorone Diisocyanate Polymer	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
n-Butyl Acetate	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
Light Aromatic Hydrocarbons	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
1,3,5-Trimethylbenzene	(Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
1,2,4-Trimethylbenzene	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
Hexamethylene Diisocyanate (max.)	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Product/ingredient name

Light Aromatic Hydrocarbons trimethylbenzene 1,3,5-Trimethylbenzene 1,2,4-Trimethylbenzene

Result

ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

Not available.

Potential acute health effects

Eye contact	: Causes serious eye irritation.
Inhalation	 Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Ingestion	: Can cause central nervous system (CNS) depression.

Symptoms related to the physical, chemical and toxicological characteristics

	-
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing wheezing and breathing difficulties asthma nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
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

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 effe	octs	2

Not available.

Conclusion/Summary [F	Product] : Not available.
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.
Reproductive toxicity	: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
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9260.2	N/A	N/A	N/A	9.0
N/A	N/A	N/A	N/A	4.625
2737	6480	N/A	N/A	N/A
10768	N/A	N/A	N/A	N/A
8400	N/A	N/A	N/A	N/A
500	N/A	N/A	11	N/A
5000	N/A	N/A	24	N/A
5000	N/A	N/A	18	N/A
N/A	N/A	N/A	N/A	0.124
	N/A 2737 10768 8400 500 5000 5000	N/A N/A 2737 6480 10768 N/A 8400 N/A 500 N/A 5000 N/A 5000 N/A	N/AN/AN/A27376480N/A10768N/AN/A8400N/AN/A500N/AN/A5000N/AN/A5000N/AN/A	N/AN/AN/AN/A27376480N/AN/A10768N/AN/AN/A8400N/AN/AN/A500N/AN/A115000N/AN/A245000N/AN/A18

Section 12. Ecological information

Toxicity	
Product/ingredient name	Result
Methyl Ethyl Ketone	Acute - EC50 - Fresh water
	Daphnia - Water flea - <i>Daphnia magna</i> - Larvae
	Age: <24 hours
	5091 mg/l [48 hours]
	Effect: Intoxication
	Acute - LC50 - Fresh water
	Fish - Fathead minnow - Pimephales promelas
	<u>Age</u> : 31 days; <u>Size</u> : 22 mm; <u>Weight</u> : 0.167 g
	3220 mg/l [96 hours]
	Effect: Mortality
	Acute - EC50 - Marine water
	Algae - Diatom - <i>Skeletonema costatum</i>
	>500 mg/l [96 hours]
	Effect: Population
n-Butyl Acetate	Acute - LC50 - Fresh water
	Fish - Fathead minnow - <i>Pimephales promelas</i>
	Age: 31 to 32 days; <u>Size</u> : 21.6 mm; <u>Weight</u> : 0.175 g
	18 mg/l [96 hours] <u>Effect</u> : Mortality
	Acute - LC50 - Marine water
	Crustaceans - Brine shrimp - Artemia salina
	32 mg/l [48 hours]
	Effect: Mortality
trimethylbenzene	Acute - LC50 - Marine water
	Crustaceans - Daggerblade grass shrimp - Palaemon pugio
	5600 µg/l [48 hours]
	Effect: Mortality
1,3,5-Trimethylbenzene	Acute - LC50 - Marine water
·,-,-	Crustaceans - Dungeness or edible crab - Cancer magister - Zoea
	Age: 1
	13 mg/l [48 hours]
	Effect: Mortality
	Acute - LC50 - Fresh water
	Fish - Goldfish - Carassius auratus
	<u>Age</u> : 1 to 1.5 years; <u>Size</u> : 13 to 20 cm; <u>Weight</u> : 20 to 80 g
	12.52 mg/l [96 hours]
	<u>Effect</u> : Mortality
	Chronic - NOEC - Fresh water
	Daphnia - Water flea - <i>Daphnia magna</i>
	<u>Age</u> : ≤24 hours
	0.4 mg/l [21 days]
	Effect: Reproduction

1,2,4-Trimethylbenzene

Acute - LC50 - Marine water

Crustaceans - Scud - *Elasmopus pectenicrus* - Adult 4910 µg/l [48 hours] <u>Effect</u>: Mortality **Acute - LC50 - Fresh water** Fish - Fathead minnow - *Pimephales promelas* <u>Age</u>: 34 days 7720 µg/l [96 hours] <u>Effect</u>: Mortality

Conclusion/Summary [Product]

: Not available.

Persistence and degradability

Not available.

Conclusion/Summary [Product] : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Methyl Ethyl Ketone n-Butyl Acetate Light Aromatic Hydrocarbons		-	Readily Readily Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Light Aromatic Hydrocarbons	-	10 to 2500	High
1,3,5-Trimethylbenzene	-	161	Low
1,2,4-Trimethylbenzene	-	243	Low
Hexamethylene Diisocyanate	-	57.63	Low
(max.)			

Mobility in soil

Soil/Water partition : Not available.

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

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Section 13. Disposal considerations

with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	ΙΑΤΑ	IMDG
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	II	11	П	11	П
Environmental hazards	No.	No.	No.	No.	No.
Additional information	- ERG No. 128	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3). ERG No. 128	- <u>ERG No.</u> 128		<u>Emergency</u> <u>schedules</u> F-E, S E
Special precautions ransport in bulk ac o IMO instruments	conside mode o suitably to shipr of the p danger and on	odal shipping descrip er container sizes. The of transport (sea, air, of or that mode of tran- ment, and compliance person offering the pro- ous goods must be to all actions in case of lable.	e presence of a ship etc.), does not indic nsport. All packaging e with the applicable oduct for transport. I rained on all of the ri	pping description for ate that the product g must be reviewed to regulations is the se People loading and sks deriving from th	a particular is packaged for suitability prior ole responsibility unloading

Proper shipping name : Not available.

17/19

Section 15. Regulatory information

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U.S. Federal regulations

California Prop. 65

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

International regulations

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

International lists	: Australia inventory (AIIC): Not determined.
	China inventory (IECSC): Not determined.
	Japan inventory (CSCL): Not determined.
	Japan inventory (ISHL): Not determined.
	Korea inventory (KECI): Not determined.
	New Zealand Inventory of Chemicals (NZIoC): Not determined.
	Philippines inventory (PICCS): Not determined.
	Taiwan Chemical Substances Inventory (TCSI): Not determined.
	Thailand inventory: Not determined.
	Turkey inventory: Not determined.
	Vietnam inventory: Not determined.

Section 16. Other information

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



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.

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.

Procedure used to derive the classification

Classification	Justification
FLAMMABLE LIQUIDS - Category 2	On basis of test data
SKIN CORROSION/IRRITATION - Category 2	Calculation method
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A	Calculation method
RESPIRATORY SENSITIZATION - Category 1	Calculation method
SKIN SENSITIZATION - Category 1	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract	Calculation method
irritation) - Category 3	
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -	Calculation method
Category 3	
History	

Date of printing

: 4/9/2025

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: 4/9/2025
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Section 16. Other information

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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, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group UN = United Nations

✓ Indicates information that has changed from previously issued version.

Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.

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