SAFETY DATA SHEET

Section 1. Identification

Product name	: FAST ACTIVATOR FOR UNIVERSAL URETHANE CLEARCOAT 4.2 VOC
Product code	: 12
Other means of identification	: Not available.
Product type	: Liquid.
Relevant identified uses of t	ne substance or mixture and uses advised against
Paint or paint related material.	
Manufacturer	: U.S. CHEMICAL & PLASTICS 600 Nova Dr. S.E. Massillon, OH 44646 USA
Emergency telephone number of the company	: (888) 345-5732
Product Information Telephone Number	: (800) 845-2000
Regulatory Information Telephone Number	: (216) 566-2902
Transportation Emergency Telephone Number	: (800) 424-9300

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 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A RESPIRATORY SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 11.5% (oral), 37.7% (dermal), 11.5% (inhalation)
GHS label elements	
Hazard pictograms	
Signal word	: Danger

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Section 2. Hazards identification

Causes skin irritation. May cause an allergic skin reaction.	
Causes serious eye irritation. Harmful if inhaled.	
May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
May cause respiratory irritation. May cause drowsiness or dizziness.	
Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.	
Precautionary statements	
 Prevention : Obtain special instructions before use. Do not handle until all safety precaution been read and understood. Wear protective gloves, protective clothing and ever protection. Wear respiratory protection. Keep away from heat, hot surfaces, s open flames and other ignition sources. No smoking. Use explosion-proof election ventilating or lighting equipment. Use non-sparking tools. Take action to prever discharges. Use only outdoors or in a well-ventilated area. Do not breathe vap Wash thoroughly after handling. Contaminated work clothing must not be allow the workplace. 	e or face parks, ctrical, ent static por.
 Response IF exposed or concerned: Get medical advice or attention. IF INHALED: Remore person to fresh air and keep comfortable for breathing. Call a POISON CENTEr doctor if you feel unwell. If experiencing respiratory symptoms: Call a POISON CENTER or doctor. IF ON SKIN (or hair): Take off immediately all contaminate clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF Wash with plenty of water. If skin irritation or rash occurs: Get medical advice attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get advice or attention. 	ER or l ed ON SKIN: or e contact
Storage : Store locked up. Store in a well-ventilated place. Keep container tightly closed. cool.	Кеер
Disposal : Dispose of contents and container in accordance with all local, regional, national international regulations.	al and
Supplemental label DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solve	
elementscan cause permanent brain and nervous system damage. Intentional misuse b deliberately concentrating and inhaling the contents can be harmful or fatal. W This product contains chemicals known to the State of California to cause canc birth defects or other reproductive harm. FOR PROFESSIONAL USE ONLY. 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 an isocyanates. DO NOT USE IF YOU HAVE CHRONIC (LONG-TERM) LUNG O 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 RESPI (NIOSH approved) SHOULD BE WORN TO PREVENT EXPOSURE. IF UNAV AN APPROPRIATE PROPERLY FITTED APPROVED NIOSH VAPOR/PARTIC RESPIRATOR MAY BE EFFECTIVE. Follow directions for respirator use. Wear respirator for the whole time of spraying and until all vapors and mists are gone have any breathing problems during use, LEAVE THE AREA and get fresh air. problems remain or happen later, IMMEDIATELY call a doctor - If not available emergency medical treatment. Have this label with you. Reacts with water in cl container to produce pressure which may cause container to burst.Please refer to the SDS for additional information. Keep out of reach of children transfer contents to other containers for storage.	ARNING: cer and This 3. d R RATOR (AILABLE, CULATE or the e. If you If get osed
Hazards not otherwise : None known.	

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Section 3. Composition/information on ingredients

Substance/mixture

- : Mixture
- Other means of identification
- : Not available.

CAS number/other identifiers

Ingredient name	% by weight	CAS number
Hexamethylene Diisocyanate Polymer	≥25 - ≤50	28182-81-2
Methyl Isobutyl Ketone	≥25 - ≤36	108-10-1
n-Butyl Acetate	≥10 - ≤25	123-86-4
Isophorone Diisocyanate Polymer	≥10 - ≤25	53880-05-0
Light Aromatic Hydrocarbons	≤10	64742-95-6
trimethylbenzene	<1	25551-13-7
1,3,5-Trimethylbenzene	<1	108-67-8
1,2,4-Trimethylbenzene	<1	95-63-6
Xylene, mixed isomers	≤0.3	1330-20-7
1,2,3-Trimethylbenzene	≤0.3	526-73-8
Cumene	≤0.3	98-82-8
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 as hazardous to health and hence require reporting in this section.

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

Section 4. First aid measures

CLEARCOAT 4.2 VOC

Description of necessary first aid measures

Eye contact	: Immediately flush eyes with plenty of water, occasionally life eyelids. Check for and remove any contact lenses. Contin minutes. Get medical attention.	
Inhalation	: Remove victim to fresh air and keep at rest in a position co is suspected that fumes are still present, the rescuer shoul or self-contained breathing apparatus. If not breathing, if b respiratory arrest occurs, provide artificial respiration or ox may be dangerous to the person providing aid to give mou Get medical attention. If necessary, call a poison center o place in recovery position and get medical attention immed airway. Loosen tight clothing such as a collar, tie, belt or w inhalation of decomposition products in a fire, symptoms n person may need to be kept under medical surveillance for any complaints or symptoms, avoid further exposure.	d wear an appropriate mask preathing is irregular or if ygen by trained personnel. It th-to-mouth resuscitation. r physician. If unconscious, diately. Maintain an open vaistband. In case of nay be delayed. The exposed
Skin contact	: Wash with plenty of soap and water. Remove contaminate contaminated clothing thoroughly with water before removi Continue to rinse for at least 10 minutes. Get medical atte complaints or symptoms, avoid further exposure. Wash cl shoes thoroughly before reuse.	ng it, or wear gloves. ntion. In the event of any
Ingestion	: Wash out mouth with water. Remove dentures if any. Refixed parts in a position comfortable for breathing. If mate the exposed person is conscious, give small quantities of wexposed person feels sick as vomiting may be dangerous. Unless directed to do so by medical personnel. If vomiting kept low so that vomit does not enter the lungs. Get medic call a poison center or physician. Never give anything by r person. If unconscious, place in recovery position and get immediately. Maintain an open airway. Loosen tight clothing or waistband.	erial has been swallowed and vater to drink. Stop if the Do not induce vomiting occurs, the head should be cal attention. If necessary, nouth to an unconscious medical attention
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Most important symptoms/e	effects, acute and delayed
Potential acute health effect	<u>cts</u>
Eye contact	: Causes serious eye irritation.
Inhalation	: Harmful if inhaled. 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.
<u>Over-exposure signs/symp</u>	<u>otoms</u>
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 may	diast attention and analist treatment peopled, if people and
	dical 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

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.

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Section 5. Fire-fighting measures

Specific hazards arising from the chemical	: 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.
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 indequate ventilation. Wear appropriate respirator when ventilation is inadequate. Pur on appropriate personal protective equipment.	t
For emergency responders	f specialized clothing is required to deal with the spillage, take note of any information Section 8 on suitable and unsuitable materials. See also the information in "For non- emergency personnel".	ı in
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	nment 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. Alternative or if water-insoluble, absorb with an inert dry material and place in an appropriate was lisposal 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 sewer vater courses, basements or confined areas. Wash spillages into an effluent treatmendant 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 censed waste disposal contractor. Contaminated absorbent material may pose the name hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.	ent

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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. 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 breathe vapor or mist. Do not ingest. 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. 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 Isobutyl Ketone	28182-81-2 108-10-1	None. ACGIH TLV (United States, 3/2020). TWA: 20 ppm 8 hours. STEL: 75 ppm 15 minutes. NIOSH REL (United States, 10/2016). TWA: 50 ppm 10 hours. TWA: 205 mg/m ³ 10 hours. STEL: 75 ppm 15 minutes. STEL: 300 mg/m ³ 15 minutes. OSHA PEL (United States, 5/2018). TWA: 100 ppm 8 hours. TWA: 410 mg/m ³ 8 hours.
n-Butyl Acetate	123-86-4	 NIOSH REL (United States, 10/2016). TWA: 150 ppm 10 hours. TWA: 710 mg/m³ 10 hours. STEL: 200 ppm 15 minutes. STEL: 950 mg/m³ 15 minutes. OSHA PEL (United States, 5/2018). TWA: 150 ppm 8 hours. TWA: 710 mg/m³ 8 hours. ACGIH TLV (United States, 3/2020).
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		STEL: 150 ppm 15 minutes.
		TWA: 50 ppm 8 hours.
Isophorone Diisocyanate Polymer	53880-05-0	None.
Light Aromatic Hydrocarbons	64742-95-6	
trimethylbenzene	25551-13-7	ACGIH TLV (United States, 3/2020).
		TWA: 25 ppm 8 hours.
		TWA: 123 mg/m ³ 8 hours.
1,3,5-Trimethylbenzene	108-67-8	ACGIH TLV (United States, 3/2020).
		TWA: 25 ppm 8 hours.
		TWA: 123 mg/m ³ 8 hours.
		NIOSH REL (United States, 10/2016).
		TWA: 25 ppm 10 hours.
		TWA: 125 mg/m ³ 10 hours.
1,2,4-Trimethylbenzene	95-63-6	ACGIH TLV (United States, 3/2020).
		TWA: 25 ppm 8 hours.
		TWA: 123 mg/m ³ 8 hours.
		NIOSH REL (United States, 10/2016).
		TWA: 25 ppm 10 hours.
		TWA: 125 mg/m ³ 10 hours.
Xylene, mixed isomers	1330-20-7	ACGIH TLV (United States, 3/2020).
		TWA: 100 ppm 8 hours.
		TWA: 434 mg/m ³ 8 hours.
		STEL: 150 ppm 15 minutes.
		STEL: 651 mg/m ³ 15 minutes.
		OSHA PEL (United States, 5/2018).
		TWA: 100 ppm 8 hours.
		TWA: 435 mg/m ³ 8 hours.
1,2,3-Trimethylbenzene	526-73-8	ACGIH TLV (United States, 3/2020).
		TWA: 25 ppm 8 hours.
		TWA: 123 mg/m ³ 8 hours.
		NIOSH REL (United States, 10/2016).
		TWA: 25 ppm 10 hours.
		TWA: 125 mg/m ³ 10 hours.
Cumene	98-82-8	ACGIH TLV (United States, 3/2020).
		TWA: 50 ppm 8 hours.
		NIOSH REL (United States, 10/2016).
		Absorbed through skin.
		TWA: 50 ppm 10 hours.
		TWA: 245 mg/m ³ 10 hours.
		OSHA PEL (United States, 5/2018).
		Absorbed through skin.
		TWA: 50 ppm 8 hours.
		TWA: 245 mg/m ³ 8 hours.
Hexamethylene Diisocyanate (max.)	822-06-0	ACGIH TLV (United States, 3/2020).
		TWA: 0.005 ppm 8 hours.
		TWA: 0.03 mg/m ³ 8 hours.
		NIOSH REL (United States, 10/2016).
		TWA: 0.005 ppm 10 hours.
		TWA: 0.005 ppm 10 hours.
		CEIL: 0.02 ppm 10 minutes.
		CEIL: 0.14 mg/m^3 10 minutes.
		OSHA PEL (United States, 5/2018).
		Absorbed through skin.
		TWA: 5 mg/m ³ , (as CN) 8 hours.
Occupational exposure limits (Canada)		

Occupational exposure limits (Canada)

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Ingredient name	CAS #	Exposure limits
Methyl isobutyl ketone	108-10-1	 CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 205 mg/m³ 8 hours. 8 hrs OEL: 50 ppm 8 hours. 15 min OEL: 75 ppm 15 minutes. 15 min OEL: 307 mg/m³ 15 minutes. CA British Columbia Provincial (Canada, 1/2020). TWA: 20 ppm 8 hours. STEL: 75 ppm 15 minutes. CA Ontario Provincial (Canada, 6/2019). TWA: 20 ppm 8 hours. STEL: 75 ppm 15 minutes. CA Quebec Provincial (Canada, 7/2019). TWAEV: 50 ppm 8 hours. STEV: 75 ppm 15 minutes. STEV: 75 ppm 15 minutes. STEV: 307 mg/m³ 15 minutes. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 75 ppm 15 minutes. TWA: 50 ppm 8 hours.
n-butyl acetate	123-86-4	 CA Alberta Provincial (Canada, 6/2018). 15 min OEL: 200 ppm 15 minutes. 15 min OEL: 950 mg/m³ 15 minutes. 8 hrs OEL: 150 ppm 8 hours. 8 hrs OEL: 713 mg/m³ 8 hours. CA British Columbia Provincial (Canada, 1/2020). TWA: 20 ppm 8 hours. CA Ontario Provincial (Canada, 6/2019). TWA: 150 ppm 8 hours. STEL: 200 ppm 15 minutes. CA Quebec Provincial (Canada, 7/2019). TWAEV: 150 ppm 8 hours. STEV: 200 ppm 15 minutes. STEV: 200 ppm 15 minutes. STEV: 950 mg/m³ 15 minutes. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 200 ppm 15 minutes. TWA: 150 ppm 8 hours.
Xylene	1330-20-7	CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 100 ppm 8 hours. 15 min OEL: 651 mg/m ³ 15 minutes. 15 min OEL: 150 ppm 15 minutes. 8 hrs OEL: 434 mg/m ³ 8 hours. CA British Columbia Provincial (Canada, 1/2020). TWA: 100 ppm 8 hours. STEL: 150 ppm 15 minutes. CA Quebec Provincial (Canada, 7/2019). TWAEV: 100 ppm 8 hours. TWAEV: 100 ppm 8 hours. STEV: 150 ppm 15 minutes. STEV: 150 ppm 15 minutes. STEV: 651 mg/m ³ 15 minutes.
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		CA Ontario Provincial (Canada, 6/2019). STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours.
Cumene	98-82-8	CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 50 ppm 8 hours. 8 hrs OEL: 246 mg/m ³ 8 hours. CA British Columbia Provincial (Canada, 1/2020). TWA: 25 ppm 8 hours. STEL: 75 ppm 15 minutes. CA Ontario Provincial (Canada, 6/2019). TWA: 50 ppm 8 hours. CA Quebec Provincial (Canada, 7/2019). TWAEV: 50 ppm 8 hours. TWAEV: 246 mg/m ³ 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 74 ppm 15 minutes. TWA: 50 ppm 8 hours.
Hexamethylene diisocyanate	822-06-0	CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 0.005 ppm 8 hours. 8 hrs OEL: 0.03 mg/m ³ 8 hours. CA British Columbia Provincial (Canada, 1/2020). Inhalation sensitizer. TWA: 0.005 ppm 8 hours. C: 0.01 ppm CA Quebec Provincial (Canada, 7/2019). Skin sensitizer. TWAEV: 0.005 ppm 8 hours. TWAEV: 0.034 mg/m ³ 8 hours. CA Ontario Provincial (Canada, 6/2019). TWA: 0.03 mg/m ³ 8 hours. TWA: 0.01 ppm 8 hours. TWA: 0.01 ppm 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 0.015 ppm 15 minutes. TWA: 0.005 ppm 8 hours.

Occupational exposure limits (Mexico)

	CAS #	Exposure limits
Methyl Isobutyl Ketone	108-10-1	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 50 ppm 8 hours. STEL: 75 ppm 15 minutes.
n-Butyl Acetate	123-86-4	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 150 ppm 8 hours. STEL: 200 ppm 15 minutes.

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.

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Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measu	<u>res</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: 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 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

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Vapor density	: 3.45 [Air = 1]		
Vapor pressure	: 2.1 kPa (16 mm Hg) [at 20°C]		
Lower and upper explosive (flammable) limits	: Lower: 0.7% Upper: 7.6%		
Flammability (solid, gas)	: Not available.		
Evaporation rate	: 1.62 (butyl acetate = 1)		
Flash point	: Closed cup: 16°C (60.8°F) [Pensky-Martens Closed Cup]		
Boiling point/boiling range	: 113°C (235.4°F)		
Melting point/freezing point	: Not available.		
рН	: Not applicable.		
Odor threshold	: Not available.		
Odor	: Not available.		
Color	: Not available.		
Physical state	: Liquid.		
<u>Appearance</u>			

Section 9. Physical and chemical properties

Relative density	:	0.96
Solubility	:	Not available.
Partition coefficient: n- octanol/water	1	Not available.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
Viscosity	:	Kinematic (40°C (104°F)): >0.205 cm²/s (>20.5 cSt)
Molecular weight	:	Not applicable.
Aerosol product		
Heat of combustion	:	18.259 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.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Hexamethylene Diisocyanate Polymer	LC50 Inhalation Vapor	Rat	18500 mg/m ³	1 hours
Methyl Isobutyl Ketone	LD50 Oral	Rat	2080 mg/kg	_
n-Butyl Acetate	LD50 Dermal	Rabbit	>17600 mg/kg	-
,	LD50 Oral	Rat	10768 mg/kg	-
Light Aromatic Hydrocarbons	LD50 Oral	Rat	8400 mg/kg	-
trimethylbenzene	LD50 Oral	Rat	8970 mg/kg	-
1,3,5-Trimethylbenzene	LC50 Inhalation Vapor	Rat	24000 mg/m ³	4 hours
-	LD50 Oral	Rat	5000 mg/kg	-
1,2,4-Trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m ³	4 hours
-	LD50 Oral	Rat	5 g/kg	-
Xylene, mixed isomers	LC50 Inhalation Gas.	Rat	6700 ppm	4 hours
-	LD50 Oral	Rat	4300 mg/kg	-
Cumene	LC50 Inhalation Vapor	Rat	39000 mg/m ³	4 hours
	LD50 Oral	Rat	1400 mg/kg	-
Hexamethylene Diisocyanate (max.)	LC50 Inhalation Dusts and mists	Rat	124 mg/m³	4 hours

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Section 11. Toxicological information

Irritation/Corrosion					
Product/ingredient name	Result	Species	Score	Exposure	Observation
Hexamethylene Diisocyanate Polymer	Eyes - Moderate irritant	Rabbit	-	100 milligrams	-
	Skin - Moderate irritant	Rabbit	-	500 milligrams	-
Methyl Isobutyl Ketone	Eyes - Moderate irritant	Rabbit	-	24 hours 100 UI	-
	Eyes - Severe irritant	Rabbit	-	40 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
n-Butyl Acetate	Eyes - Moderate irritant	Rabbit	-	100 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Light Aromatic Hydrocarbons	Eyes - Mild irritant	Rabbit	-	24 hours 100 UI	-
trimethylbenzene	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
1,3,5-Trimethylbenzene	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 mg	-
Xylene, mixed isomers	Eyes - Mild irritant	Rabbit	_	87 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5 mg	-
	Skin - Mild irritant	Rat	-	8 hours 60 UI	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Moderate irritant	Rabbit	-	100 %	-
Cumene	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Eyes - Mild irritant	Rabbit	-	86 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 10 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 100 mg	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
Methyl Isobutyl Ketone Xylene, mixed isomers Cumene	- -	2B 3 2B	- - Reasonably anticipated to be a human carcinogen.

Reproductive toxicity

Not available.

Teratogenicity

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Section 11. Toxicological information

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Hexamethylene Diisocyanate Polymer	Category 3	-	Respiratory tract irritation
Methyl Isobutyl Ketone	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
n-Butyl Acetate	Category 3	-	Narcotic effects
Isophorone Diisocyanate Polymer	Category 3	-	Respiratory tract irritation
Light Aromatic Hydrocarbons	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
1,3,5-Trimethylbenzene	Category 3	-	Respiratory tract irritation
1,2,4-Trimethylbenzene	Category 3	-	Respiratory tract irritation
Xylene, mixed isomers	Category 3	-	Respiratory tract irritation
1,2,3-Trimethylbenzene	Category 3	-	Respiratory tract irritation
Cumene	Category 3	-	Respiratory tract
	Category 3		Narcotic effects
Hexamethylene Diisocyanate (max.)	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Methyl Isobutyl Ketone	Category 2	-	-
Light Aromatic Hydrocarbons	Category 2	-	-
Xylene, mixed isomers	Category 2	-	-
Cumene	Category 2	-	-

Aspiration hazard

Name	Result
Light Aromatic Hydrocarbons	ASPIRATION HAZARD - Category 1
trimethylbenzene	ASPIRATION HAZARD - Category 1
1,3,5-Trimethylbenzene	ASPIRATION HAZARD - Category 1
1,2,4-Trimethylbenzene	ASPIRATION HAZARD - Category 1
Xylene, mixed isomers	ASPIRATION HAZARD - Category 1
1,2,3-Trimethylbenzene	ASPIRATION HAZARD - Category 1
Cumene	ASPIRATION HAZARD - Category 1

Information on the likely

routes of exposure

: Not available.

Potential acute health effects

Eye contact

: Causes serious eye irritation.

Inhalation : Harmful if inhaled. 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.

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Section 11. Toxic	cological information
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Ingestion	: Can cause central nervous system (CNS) depression.
Symptoms related to the p	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.
	fects 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 effective	<u>ffects</u>
Not available.	
General	 May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	 Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	7039.1 mg/kg
Inhalation (vapors)	16.1 mg/l

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Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Methyl Isobutyl Ketone	Acute LC50 505000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 78 mg/l Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 168 mg/l Fresh water	Fish - Pimephales promelas - Embryo	33 days
n-Butyl Acetate	Acute LC50 32 mg/l Marine water	Crustaceans - Artemia salina	48 hours
	Acute LC50 18000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
trimethylbenzene	Acute LC50 5600 µg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
1,3,5-Trimethylbenzene	Acute LC50 13000 µg/l Marine water	Crustaceans - Cancer magister - Zoea	48 hours
	Acute LC50 12520 µg/l Fresh water	Fish - Carassius auratus	96 hours
	Chronic NOEC 400 µg/l Fresh water	Daphnia - Daphnia magna	21 days
1,2,4-Trimethylbenzene	Acute LC50 4910 µg/l Marine water	Crustaceans - Elasmopus pectenicrus - Adult	48 hours
	Acute LC50 7720 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Xylene, mixed isomers	Acute LC50 8500 µg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Cumene	Acute EC50 2600 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 7.4 mg/l Marine water	Crustaceans - Artemia sp Nauplii	48 hours
	Acute EC50 10.6 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 2700 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Methyl Isobutyl Ketone	-	-	Readily
n-Butyl Acetate	-	-	Readily
Light Aromatic Hydrocarbons	-	-	Readily
Xylene, mixed isomers	-	-	Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Light Aromatic Hydrocarbons 1,3,5-Trimethylbenzene 1,2,4-Trimethylbenzene Xylene, mixed isomers 1,2,3-Trimethylbenzene Cumene Hexamethylene Diisocyanate (max.)	- - - - -	10 to 2500 161 243 8.1 to 25.9 194.98 35.48 57.63	high Iow Iow Iow Iow Iow

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

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Section 12. Ecological information

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

	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	Ш	Ш	П	П
Environmental hazards	No.	No.	No.	No.	No.
Additional information	-	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3).	-		<u>Emergency</u> <u>schedules</u> F-E, S E
	ERG No.	ERG No.	ERG No.		
	128	128	128		

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Section 14. Transport information

Special precautions for user	Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.
Transport in bulk according	Not available.

to IMO instruments

Proper shipping name

: Not available.

Section 15. Regulatory information

SARA 313

SARA 313 (40 CFR 372.45) supplier notification can be found on the Environmental Data Sheet.

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

International lists	: Australia inventory (AICS): Not determined.
	China inventory (IECSC): Not determined.
	Japan inventory (ENCS): 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

: 10/16/2020

Section 16. Other information

Classification	Justification
FLAMMABLE LIQUIDS - Category 2	On basis of test data
ACUTE TOXICITY (inhalation) - Category 4	Calculation method
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
CARCINOGENICITY - Category 2	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2	Calculation method

Date of printing	: 12/16/2020
Date of issue/Date of revision	: 12/16/2020
Date of previous issue	: 10/16/2020
Version	: 3.01
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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