SAFETY DATA SHEET

F93H112A

Section 1. Identification

Product name	: MIL-DTL-53039C, Type I Aliphatic Polyurethane, Single Component CARC Tan 686A, 33446
Product code	: F93H112A
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	: THE SHERWIN-WILLIAMS COMPANY 101 W. Prospect Avenue Cleveland, OH 44115
Emergency telephone number of the company	: US / Canada: (216) 566-2917 Mexico: SETIQ 800-00-214-00 / 55-5559-1588 Available 24 hours and 365 days a year
Product Information Telephone Number	: US / Canada: 1-844-290-6044 Mexico: Not Available
Regulatory Information Telephone Number	: US / Canada: (216) 566-2902 Mexico: Not Available
Transportation Emergency Telephone Number	: US / Canada: (216) 566-2917 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 3 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1A 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 1 Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 28.3% (oral), 55.7% (dermal), 55.7% (inhalation)
GHS label elements	
Hazard pictograms	
Signal word	: Danger

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Section 2. Hazards identification

Hazard statements	 Flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. May cause cancer. Causes damage to organs through prolonged or repeated exposure. (respiratory tract)
Precautionary statements	
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.
Response	: IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of 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. Keep cool.
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 INDUSTRIAL USE ONLY. Adequate ventilation required when sanding or abrading the dried film. If Adequate ventilation cannot be provided wear an approved particulate respirator (NIOSH approved). Follow respirator manufacturer's directions for respirator use. DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Abrading or sanding of the dry film may release Crystalline Silica which has been shown to cause lung damage and cancer under long term exposure. 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	. None known

Hazards not otherwise classified

: 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
Methyl Isoamyl Ketone	≥25 - ≤45	110-12-3
Hexamethylene Diisocyanate Polymer	≥10 - ≤24	28182-81-2
Titanium Dioxide	≤10	13463-67-7
Crystalline Silica, respirable powder	≤10	14808-60-7
Cristobalite, respirable powder	≤10	14464-46-1
Polyester	≤10	54797-78-3
Calcined Diatomaceous Earth	≤5	68855-54-9
Lt. Aliphatic Hydrocarbon Solvent	≤3	64742-89-8
n-Butyl Acetate	≤3	123-86-4
Chromium Oxide	≤3	1308-38-9
Light Aromatic Hydrocarbons	<1	64742-95-6
trimethylbenzene	≤0.3	25551-13-7
1-[2-(Dimethylamino)ethyl]-4-methylpiperazine	≤0.3	104-19-8
1,3,5-Trimethylbenzene	≤0.3	108-67-8
1,2,4-Trimethylbenzene	≤0.3	95-63-6

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 and hence require reporting in this section.

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

Section 4. First aid measures

Description of	<u>necessary first a</u>	<u>id measures</u>					
Eye contact	:	eyelids. Che	flush eyes with plenty of wa eck for and remove any cor at medical attention.				
Inhalation	:	is suspected or self-conta respiratory a may be dang Get medical place in reco airway. Loos inhalation of	im to fresh air and keep at that fumes are still presen ined breathing apparatus. rrest occurs, provide artific gerous to the person provid attention. If necessary, ca very position and get medi sen tight clothing such as a decomposition products in need to be kept under med	t, the rescuer should we If not breathing, if breat ial respiration or oxyger ing aid to give mouth-to II a poison center or phy cal attention immediate collar, tie, belt or waist a fire, symptoms may b	ear an appi hing is irre- by trainect -mouth res vsician. If u ly. Maintai band. In c be delayed	ropriate mas gular or if I personnel. suscitation. unconscious n an open ase of	k It ,
Skin contact	:	contaminate Continue to r complaints o	lenty of soap and water. R d clothing thoroughly with v rinse for at least 10 minutes r symptoms, avoid further ughly before reuse.	vater before removing it s. Get medical attentior	, or wear g n. In the ev	loves. /ent of any	
Ingestion	:	and the exposed per unless direct kept low so t call a poison person. If ur	buth with water. Remove of sed person is conscious, g son feels sick as vomiting in ed to do so by medical per hat vomit does not enter th center or physician. Neve inconscious, place in recove Maintain an open airway.	give small quantities of we may be dangerous. Do sonnel. If vomiting occurs e lungs. Get medical a r give anything by mout ery position and get medical at the solution at the	water to dri not induce urs, the hea ttention. If h to an uno dical attenti	nk. Stop if the vomiting ad should be necessary, conscious	he e
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Section 4. First aid measures

or waistband.

Most important symptoms/ef	fects, acute and delayed
Potential acute health effect	ts
Eye contact	: Causes serious eye irritation.
Inhalation	: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Ingestion	: Can cause central nervous system (CNS) depression.
Over-exposure signs/sympt	<u>ioms</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 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 med	ical 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.
Specific hazards arising from the chemical	: 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.

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Section 5. Fire-fighting measures

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, 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

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. 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
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Section 7. Handling and storage

		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)

Respirable TWA: 10 mg/m³ / (%SiO2+2) 8 hours. Form: Respirable OSHA PEL (United States, 5/2018). TWA: 50 μg/m³ 8 hours. Form: Respirable dust ACGIH TLV (United States, 1/2021). TWA: 0.025 mg/m³ 8 hours. Form: Respirable fraction NIOSH REL (United States, 10/2020).	Ingredient name	CAS #	Exposure limits
Titanium Dioxide13463-67-7ACGIH TLV (United States, 1/2021). TWA: 10 mg/m³ 8 hours.Crystalline Silica, respirable powder14808-60-7TWA: 15 mg/m³ 8 hours. Form: Total dustOSHA PEL Z3 (United States, 6/2016). TWA: 250 mppcf / (%SiO2+5) 8 hours. Form: Respirable TWA: 10 mg/m³ / (%SiO2+2) 8 hours. Form: Respirable OSHA PEL (United States, 5/2018). TWA: 50 µg/m³ 8 hours. Form: Respirable dustOSHA PEL (United States, 5/2018). TWA: 50 µg/m³ 8 hours. Form: Respirable dustOSHA PEL (United States, 1/2021). TWA: 50 µg/m³ 8 hours. Form: Respirable dustTWA: 0.025 mg/m³ 8 hours. Form: Respirable fraction NIOSH REL (United States, 10/2020). TWA: 0.05 mg/m³ 10 hours. Form: respirable dust	Methyl Isoamyl Ketone	110-12-3	TWA: 20 ppm 8 hours. TWA: 93 mg/m ³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 234 mg/m ³ 15 minutes. NIOSH REL (United States, 10/2020). TWA: 50 ppm 10 hours. TWA: 240 mg/m ³ 10 hours. OSHA PEL (United States, 5/2018). TWA: 100 ppm 8 hours.
 TWA: 250 mppcf / (%SiO2+5) 8 hours. Form Respirable TWA: 10 mg/m³ / (%SiO2+2) 8 hours. Form: Respirable OSHA PEL (United States, 5/2018). TWA: 50 μg/m³ 8 hours. Form: Respirable dust ACGIH TLV (United States, 1/2021). TWA: 0.025 mg/m³ 8 hours. Form: Respirable fraction NIOSH REL (United States, 10/2020). TWA: 0.05 mg/m³ 10 hours. Form: respirable dust 			ACGIH TLV (United States, 1/2021). TWA: 10 mg/m ³ 8 hours. OSHA PEL (United States, 5/2018).
Cristobalite, respirable powder 14464-46-1 OSHA PEL Z3 (United States, 6/2016).	Crystalline Silica, respirable powder	14808-60-7	 TWA: 250 mppcf / (%SiO2+5) 8 hours. Form Respirable TWA: 10 mg/m³ / (%SiO2+2) 8 hours. Form: Respirable OSHA PEL (United States, 5/2018). TWA: 50 μg/m³ 8 hours. Form: Respirable dust ACGIH TLV (United States, 1/2021). TWA: 0.025 mg/m³ 8 hours. Form: Respirable fraction NIOSH REL (United States, 10/2020). TWA: 0.05 mg/m³ 10 hours. Form: respirable
	Cristobalite, respirable powder	14464-46-1	OSHA PEL Z3 (United States, 6/2016).

Section 6. Exposure controls/p	ersonar prot	
		 TWA: 250 mppcf / 2 x (%SiO2+5) 8 hours. Form: Respirable TWA: 10 mg/m³ / 2 x (%SiO2+2) 8 hours. Form: Respirable TWA: 30 mg/m³ / 2 x (%SiO2+2) 8 hours. Form: Total dust OSHA PEL (United States, 5/2018). TWA: 50 μg/m³ 8 hours. Form: Respirable dust ACGIH TLV (United States, 1/2021). TWA: 0.025 mg/m³ 8 hours. Form: Respirable fraction NIOSH REL (United States, 10/2020). TWA: 0.05 mg/m³ 10 hours. Form: respirable dust
Polyester Calcined Diatomaceous Earth	54797-78-3 68855-54-9	None. NIOSH REL (United States, 10/2020). TWA: 6 mg/m ³ 10 hours.
Lt. Aliphatic Hydrocarbon Solvent n-Butyl Acetate	64742-89-8 123-86-4	None. NIOSH REL (United States, 10/2020). TWA: 150 ppm 10 hours. TWA: 710 mg/m ³ 10 hours. STEL: 200 ppm 15 minutes. STEL: 950 mg/m ³ 15 minutes. OSHA PEL (United States, 5/2018). TWA: 150 ppm 8 hours. TWA: 710 mg/m ³ 8 hours. ACGIH TLV (United States, 1/2021). STEL: 150 ppm 15 minutes. TWA: 50 ppm 8 hours.
Chromium Oxide	1308-38-9	ACGIH TLV (United States, 1/2021). TWA: 0.003 mg/m ³ , (measured as Cr) 8 hours. Form: Inhalable fraction NIOSH REL (United States, 10/2020). TWA: 0.5 mg/m ³ , (as CR) 8 hours. OSHA PEL (United States, 5/2018). TWA: 0.5 mg/m ³ , (as Cr) 8 hours.
Light Aromatic Hydrocarbons trimethylbenzene	64742-95-6 25551-13-7	None. ACGIH TLV (United States, 1/2021). TWA: 25 ppm 8 hours. TWA: 123 mg/m ³ 8 hours.
1-[2-(Dimethylamino)ethyl]-4-methylpiperazine 1,3,5-Trimethylbenzene	104-19-8 108-67-8	None. ACGIH TLV (United States, 1/2021). TWA: 25 ppm 8 hours. TWA: 123 mg/m ³ 8 hours. NIOSH REL (United States, 10/2020). TWA: 25 ppm 10 hours. TWA: 125 mg/m ³ 10 hours.
1,2,4-Trimethylbenzene Occupational exposure limits (Canada)	95-63-6	ACGIH TLV (United States, 1/2021). TWA: 25 ppm 8 hours. TWA: 123 mg/m ³ 8 hours. NIOSH REL (United States, 10/2020). TWA: 25 ppm 10 hours. TWA: 125 mg/m ³ 10 hours.

Occupational exposure limits (Canada)

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Ingredient name	CAS #	Exposure limits
Methyl isoamyl ketone	110-12-3	CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 50 ppm 8 hours. 8 hrs OEL: 234 mg/m ³ 8 hours. CA British Columbia Provincial (Canada, 1/2021). TWA: 20 ppm 8 hours. STEL: 50 ppm 15 minutes. CA Ontario Provincial (Canada, 6/2019). TWA: 20 ppm 8 hours. STEL: 50 ppm 15 minutes. CA Quebec Provincial (Canada, 7/2019). TWAEV: 50 ppm 8 hours. TWAEV: 234 mg/m ³ 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 60 ppm 15 minutes. TWA: 50 ppm 8 hours.
Titanium dioxide	13463-67-7	 CA British Columbia Provincial (Canada, 1/2021). TWA: 10 mg/m³ 8 hours. Form: Total dust TWA: 3 mg/m³ 8 hours. Form: respirable fraction CA Quebec Provincial (Canada, 7/2019). TWAEV: 10 mg/m³ 8 hours. Form: Total dust. CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 10 mg/m³ 8 hours. CA Ontario Provincial (Canada, 6/2019). TWA: 10 mg/m³ 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 20 mg/m³ 15 minutes. TWA: 10 mg/m³ 8 hours.
Quartz	14808-60-7	 CA British Columbia Provincial (Canada, 1/2021). TWA: 0.025 mg/m³ 8 hours. Form: Respirable CA Quebec Provincial (Canada, 7/2019). TWAEV: 0.1 mg/m³ 8 hours. Form: Respirable dust. CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 0.025 mg/m³ 8 hours. Form: Respirable particulate CA Ontario Provincial (Canada, 6/2019). TWA: 0.1 mg/m³ 8 hours. Form: Respirable particulate matter. CA Saskatchewan Provincial (Canada, 7/2013). TWA: 0.05 mg/m³ 8 hours. Form: respirable fraction
Cristobalite	14464-46-1	CA British Columbia Provincial (Canada, 1/2021). TWA: 0.025 mg/m ³ 8 hours. Form: Respirable CA Quebec Provincial (Canada, 7/2019). TWAEV: 0.05 mg/m ³ 8 hours. Form:
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		 Respirable dust. CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 0.025 mg/m³ 8 hours. Form: Respirable particulate CA Ontario Provincial (Canada, 6/2019). TWA: 0.05 mg/m³ 8 hours. Form: Respirable particulate matter. CA Saskatchewan Provincial (Canada, 7/2013). TWA: 0.05 mg/m³ 8 hours. Form: respirable fraction
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 Quebec Provincial (Canada, 7/2019). TWAEV: 150 ppm 8 hours. 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. CA Ontario Provincial (Canada, 6/2019). STEL: 150 ppm 15 minutes. TWA: 50 ppm 15 minutes.

Occupational exposure limits (Mexico)

Tan 686A, 33446

	CAS #	Exposure limits
Methyl Isoamyl Ketone	110-12-3	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 20 ppm 8 hours.
Crystalline Silica, respirable powder	14808-60-7	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 0.025 mg/m ³ 8 hours. Form: Respirable fraction
Cristobalite, respirable powder	14464-46-1	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 0.025 mg/m ³ 8 hours. Form: Respirable fraction
n-Butyl Acetate	123-86-4	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 150 ppm 8 hours. STEL: 200 ppm 15 minutes.

controls		other engin recommend vapor or du	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.				
Environme controls	ntal exposure	they comply cases, fum	y with the requirements o	of environmental pro- gineering modification	should be checked to ensur tection legislation. In some ons to the process equipme rels.	e	
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Individual protection measures	<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: 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

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

Appearance	
Physical state	: Liquid.
Color	: Not available.
Odor	: Not available.
Odor threshold	: Not available.
рН	: Not applicable.
Melting point/freezing point	: Not available.
Boiling point, initial boiling	: 115°C (239°F)
point, and boiling range	
Flash point	: Closed cup: 36°C (96.8°F) [Pensky-Martens Closed Cup]
Evaporation rate	: 1.5 (butyl acetate = 1)
Flammability	: Not available.
Lower and upper explosion limit/flammability limit	: Lower: 0.9% Upper: 8.2%
Vapor pressure	: 1.6 kPa (12 mm Hg)
Relative vapor density	: 3.9 [Air = 1]

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Section 9. Physical and chemical properties

_		
Relative density	: 1.22	
Solubility	: Not available.	
Partition coefficient: n- octanol/water	: Not applicable.	
Auto-ignition temperature	: Not available.	
Decomposition temperature	: Not available.	
Viscosity	: Kinematic (40°C (104°F)): >20.5 mm²/s (>20.5 cSt)	
Molecular weight	: Not applicable.	
Aerosol product		
Heat of combustion	: 12.505 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
Methyl Isoamyl Ketone	LD50 Oral	Rat	3200 mg/kg	-
Hexamethylene Diisocyanate Polymer	LC50 Inhalation Vapor	Rat	18500 mg/m ³	1 hours
n-Butyl Acetate	LD50 Dermal LD50 Oral	Rabbit Rat	>17600 mg/kg 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 LD50 Oral	Rat Rat	18000 mg/m ³ 5 g/kg	4 hours -

Irritation/Corrosion

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Section 11. Toxicological information

Result	Species	Score	Exposure	Observation
Eyes - Mild irritant	Rabbit	-	24 hours 100	-
			uL	
Eyes - Moderate irritant	Rabbit	-	100 mg	-
Skin - Moderate irritant	Rabbit	-	500 mg	-
Skin - Mild irritant	Human	-	72 hours 300	-
			ug l	
		-		-
Skin - Moderate irritant	Rabbit	-	24 hours 500	-
			mg	
Eyes - Mild irritant	Rabbit	-		-
	Dabbit			
Eyes - Mild Imtant	Rappil	-		-
Skin Moderate irritant	Pabhit			-
Okin - Moderate initant	Rabbit	-		-
Eves - Severe irritant	Rabbit	_		_
	1 to b i t			
Skin - Severe irritant	Rabbit	-	24 hours 5	-
			mg	
Eyes - Mild irritant	Rabbit	-	24 hours 500	-
-			mg	
Skin - Moderate irritant	Rabbit	-	24 hours 20	-
			mg	
	Eyes - Mild irritant Eyes - Moderate irritant Skin - Moderate irritant Skin - Mild irritant Eyes - Moderate irritant Skin - Moderate irritant Eyes - Mild irritant Eyes - Mild irritant Skin - Moderate irritant Eyes - Severe irritant Skin - Severe irritant Eyes - Mild irritant	Eyes - Mild irritantRabbitEyes - Moderate irritantRabbitSkin - Moderate irritantRabbitSkin - Mild irritantRabbitEyes - Moderate irritantRabbitSkin - Moderate irritantRabbitEyes - Moderate irritantRabbitEyes - Moderate irritantRabbitEyes - Mild irritantRabbitEyes - Mild irritantRabbitEyes - Mild irritantRabbitEyes - Severe irritantRabbitSkin - Moderate irritantRabbitSkin - Severe irritantRabbitSkin - Severe irritantRabbitEyes - Mild irritantRabbit	Eyes - Mild irritantRabbit-Eyes - Moderate irritantRabbit-Skin - Moderate irritantRabbit-Skin - Mild irritantRabbit-Eyes - Moderate irritantRabbit-Eyes - Moderate irritantRabbit-Skin - Moderate irritantRabbit-Eyes - Moderate irritantRabbit-Eyes - Mild irritantRabbit-Eyes - Mild irritantRabbit-Eyes - Mild irritantRabbit-Eyes - Severe irritantRabbit-Skin - Severe irritantRabbit-Skin - Severe irritantRabbit-Eyes - Mild irritantRabbit-	Eyes - Mild irritantRabbit-24 hours 100 uLEyes - Moderate irritantRabbit-100 mgSkin - Moderate irritantRabbit-500 mg r2 hours 300 ug ISkin - Mild irritantRabbit-500 mg r2 hours 300 ug IEyes - Moderate irritantRabbit-100 mgSkin - Moderate irritantRabbit-100 mgSkin - Moderate irritantRabbit-24 hours 500 mgEyes - Mild irritantRabbit-24 hours 500 mgEyes - Mild irritantRabbit-24 hours 500 mgSkin - Moderate irritantRabbit-24 hours 500 mgSkin - Moderate irritantRabbit-24 hours 500 mgSkin - Severe irritantRabbit-24 hours 500 mgSkin - Severe irritantRabbit-24 hours 500 mgSkin - Moderate irritantRabbit-24 hours 500 mgSkin - Moderate irritantRabbit-24 hours 500 mgSkin - Severe irritantRabbit-24 hours 500 mgSkin - Moderate irritantRabbit-24 hours 20<

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
Titanium Dioxide	-	2B	-
Crystalline Silica, respirable powder	-	1	Known to be a human carcinogen.
Cristobalite, respirable powder	-	1	Known to be a human carcinogen.
Calcined Diatomaceous Earth Chromium Oxide	-	3 3	-

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
Methyl Isoamyl Ketone	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Hexamethylene Diisocyanate Polymer	Category 3	-	Respiratory tract irritation
Lt. Aliphatic Hydrocarbon Solvent	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
n-Butyl Acetate	Category 3	-	Narcotic effects
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

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Methyl Isoamyl Ketone	Category 2	-	-
Crystalline Silica, respirable powder	Category 1	inhalation	-
Cristobalite, respirable powder	Category 1	inhalation	respiratory tract
Lt. Aliphatic Hydrocarbon Solvent	Category 2	-	-
Light Aromatic Hydrocarbons	Category 2	-	-

Aspiration hazard

Name	Result
Lt. Aliphatic Hydrocarbon Solvent	ASPIRATION HAZARD - Category 1
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

Information on the likely routes of exposure	: Not available.
Potential acute health effe	<u>cts</u>
Eye contact	: Causes serious eye irritation.
Inhalation	: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Ingestion	: Can cause central nervous system (CNS) depression.

Symptoms related to the ph	ysical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness

Section 11. Toxicological information

Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.
<u>Delayed and immediate ef</u> <u>Short term exposure</u>	fects and also chronic effects from short and long term exposure
Potential immediate effects	: Not available.
Potential delayed effects Long term exposure	: Not available.
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health e	ffects
Not available.	
General	: Causes damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: May cause 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.

- : 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 Inhalation (vapors)	8361.55 mg/kg 21.76 mg/l		

Section 12. Ecological information

Toxicity

Section 12. Ecological information

	-	1	
Product/ingredient name	Result	Species	Exposure
Methyl Isoamyl Ketone	Acute LC50 159000 µg/l Fresh water	Fish - Pimephales promelas	96 hours 🥄
Titanium Dioxide	Acute LC50 >1000000 µg/l Marine water	Fish - Fundulus heteroclitus	96 hours
Lt. Aliphatic Hydrocarbon Solvent	Acute LC50 >100000 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
n-Butyl Acetate	Acute LC50 32 mg/l Marine water	Crustaceans - Artemia salina	48 hours
2	Acute LC50 18000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
trimethylbenzene	Acute LC50 5600 µg/l Marine water	Crustaceans - Palaemonetes	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

Persistence and degradability

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

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Hexamethylene Diisocyanate Polymer	-	367.7	low 🥄
Lt. Aliphatic Hydrocarbon Solvent	-	10 to 2500	high
Light Aromatic Hydrocarbons	-	10 to 2500	high
1,3,5-Trimethylbenzene 1,2,4-Trimethylbenzene	-	161 243	low 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

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Section 13. Disposal considerations

with soil, waterways, drains and sewers.

Section 14 Transport information

Section 14.	I ransport inf	ormation			
	DOT Classification	TDG Classification	Mexico Classification	ΙΑΤΑ	IMDG
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	III	111	ш	ш	111
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		Emergency schedules F-E, S- E
	mode o suitably prior to respon unload substa	er container sizes. The of transport (sea, air, y for that mode of trans o shipment, and comp sibility of the person ing dangerous goods nces and on all action	he presence of a shi etc.), does not indic insport. All packagin pliance with the appl offering the product must be trained on	pping description for ate that the product g must be reviewed icable regulations is for transport. Peopl all of the risks deriv	r a particular t is packaged for suitability the sole le loading and
Transport in bulk ac to IMO instruments		แลมเ น .	N 1 /		

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 (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

	Justification		
FLAMMABLE LIQUIDS - C	ategory 3	On basis of test data	
SKIN CORROSION/IRRIT		Calculation method	
SERIOUS EYE DAMAGE/	EYE IRRITATION - Category 2A	Calculation method	
SKIN SENSITIZATION - C	ategory 1	Calculation method	
CARCINOGENICITY - Cat	egory 1A	Calculation method	
SPECIFIC TARGET ORGA	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract		
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -		
	AN TOXICITY (REPEATED EXPOSURE) - Category 1	Calculation method	
<u>History</u>			
Date of printing	: 9/26/2021		
Date of issue/Date of revision			
Date of previous issue			

Date Of	previous	155Ue	
Version			:

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Section 16. Other information

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 = Intermediate 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.