# **SAFETY DATA SHEET**

A03901004

### Section 1. Identification

Product name	: KRYLON® Industrial QUIK-MARK <sup>™</sup> Water-Based Inverted Marking Paint (APWA) Brilliant White			
Product code	A03901004			
Other means of identification	Not available.			
Product type	: Aerosol.			
Relevant identified uses of t	he substance or mixture and uses advised against			
Paint or paint related material.				
Manufacturer	: Krylon Products Group 101 Prospect Avenue NW Cleveland, OH 44115			
Emergency telephone number of the company	: US/Canada: (800) 424-9300 Mexico: CHEMTREC Mexico 800-681-9531. Available 24 hours and 365 days per year			
Product Information Telephone Number	: US/Canada: (800) 247-3266 Mexico: Not Available			
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. Hazard	s 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	<ul> <li>FLAMMABLE AEROSOLS - Category 1         <ul> <li>GASES UNDER PRESSURE - Compressed gas</li> <li>SKIN CORROSION/IRRITATION - Category 2</li> <li>SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A</li> <li>CARCINOGENICITY - Category 2</li> <li>TOXIC TO REPRODUCTION - Category 1B</li> <li>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3</li> <li>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1</li> </ul> </li> </ul>			

Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 26.1% (oral), 37.1% (dermal), 26.1% (inhalation)

**GHS label elements Hazard pictograms** 

Signal word

A03901004

: Danger



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# Section 2. Hazards identification

Hazard statements	<ul> <li>Extremely flammable aerosol.</li> <li>Contains gas under pressure; may explode if heated.</li> <li>May be fatal if swallowed and enters airways.</li> <li>Causes skin irritation.</li> <li>Causes serious eye irritation.</li> <li>May cause drowsiness or dizziness.</li> <li>Suspected of causing cancer.</li> <li>May damage fertility or the unborn child.</li> <li>Causes damage to organs through prolonged or repeated exposure. (lungs)</li> </ul>
Precautionary statements	Causes damage to organs through prolonged of repeated exposure. (lungs)
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. Do not spray on an open flame or other ignition source. Use only outdoors or in a well-ventilated area. Do not breathe dust or mist. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Pressurized container: Do not pierce or burn, even after use.
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 SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting. Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation 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	<ul> <li>Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50</li> <li>°C/122 °F. Store in a well-ventilated place. Keep container tightly closed.</li> </ul>
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.
	This product contains a TSCA regulated chemical. See Section 15 of the US SDS for details.
	Please refer to the SDS for additional information. Keep out of reach of children. Keep upright in a cool, dry place. Do not discard empty can in trash compactor.
Hazards not otherwise classified	: DANGER: Rags, steel wool, other waste soaked with this product, and sanding residue may spontaneously catch fire if improperly discarded. Immediately place rags, steel wool, other waste soaked with this product, and sanding residue in a sealed, water-filled, metal container. Dispose of in accordance with local fire regulations.

# Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of	: Not available.
identification	

**CAS number/other identifiers** 

### Section 3. Composition/information on ingredients

Ingredient name	% by weight	CAS number
Toluene	≥10 - ≤25	108-88-3
Propane	≤10	74-98-6
Light Aliphatic Hydrocarbon	≤10	64742-47-8
Butane	≤5	106-97-8
Titanium Dioxide	≤5	13463-67-7
Kaolin	≤5	1332-58-7
Lt. Aliphatic Hydrocarbon Solvent	≤3	64742-89-8
Xylene, mixed isomers	<1	1330-20-7
Diethanolamine	≤0.3	111-42-2

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

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified 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. Skin contact : Flush contaminated skin with plenty of 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. Wash clothing before reuse. Clean shoes thoroughly before reuse. Ingestion : Get medical attention immediately. Call a poison center or physician. 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. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Most important symptoms/effects, acute and delayed Potential acute health effects Eve contact : Causes serious eve irritation

	jo oomaat		
Ir	halation	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.	
S	kin contact	Causes skin irritation.	
Ir	ngestion	Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.	

#### Over-exposure signs/symptoms

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# Section 4. First aid measures

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 reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: irritation redness reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: nausea or vomiting reduced fetal weight increase in fetal deaths skeletal malformations

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

Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. 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 an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: Extremely flammable aerosol. 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. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed.

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### Section 5. Fire-fighting measures

Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide 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.
Remark	: Flammable aerosol.

### 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. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. 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	: This product contains a TSCA regulated chemical. See Section 15 of the US SDS for details.
	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	ntainment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
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

information and Section 13 for waste disposal.

licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact

# Section 7. Handling and storage

Precautions for safe handling	L	
Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. 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 swallow. Avoid breathing gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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. Empty containers retain product residue and can be hazardous.
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 away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Protect from sunlight. Store locked up. Eliminate all ignition sources. 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
Toluene	108-88-3	OSHA PEL Z2 (United States, 2/2013). TWA: 200 ppm 8 hours. CEIL: 300 ppm AMP: 500 ppm 10 minutes. NIOSH REL (United States, 10/2020). TWA: 100 ppm 10 hours. TWA: 375 mg/m <sup>3</sup> 10 hours. STEL: 150 ppm 15 minutes. STEL: 560 mg/m <sup>3</sup> 15 minutes. ACGIH TLV (United States, 1/2023). Ototoxicant. TWA: 20 ppm 8 hours.
Propane	74-98-6	NIOSH REL (United States, 10/2020). TWA: 1000 ppm 10 hours. TWA: 1800 mg/m <sup>3</sup> 10 hours. OSHA PEL (United States, 5/2018). TWA: 1000 ppm 8 hours. TWA: 1800 mg/m <sup>3</sup> 8 hours. ACGIH TLV (United States, 1/2023). Oxyget Depletion [Asphyxiant]. Explosive potenti
Light Aliphatic Hydrocarbon	64742-47-8	ACGIH TLV (United States, 1/2023). [Kerosene as total hydrocarbon vapor] Absorbed through skin. TWA: 200 mg/m <sup>3</sup> , (as total hydrocarbon vapor) 8 hours.
Butane	106-97-8	NIOSH REL (United States, 10/2020). TWA: 800 ppm 10 hours.
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		TWA: 1900 mg/m <sup>3</sup> 10 hours. ACGIH TLV (United States, 1/2023).
		[Butane isomers] Explosive potential.
		STEL: 1000 ppm 15 minutes.
Titanium Dioxide	13463-67-7	OSHA PEL (United States, 5/2018).
		TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust
		ACGIH TLV (United States, 1/2023).
		TWA: 2.5 mg/m <sup>3</sup> 8 hours. Form: respirable
		fraction, finescale particles
Kaolin	1332-58-7	ACGIH TLV (United States, 1/2023).
		TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable
		fraction
		NIOSH REL (United States, 10/2020).
		TWA: 5 mg/m <sup>3</sup> 10 hours. Form: Respirable
		fraction
		TWA: 10 mg/m <sup>3</sup> 10 hours. Form: Total
		OSHA PEL (United States, 5/2018).
		TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable
		fraction
		TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust
Lt. Aliphatic Hydrocarbon Solvent	64742-89-8	None.
Xylene, mixed isomers	1330-20-7	OSHA PEL (United States, 5/2018).
		[Xylenes (o-, m-, p-isomers)]
		TWA: 100 ppm 8 hours.
		TWA: 435 mg/m <sup>3</sup> 8 hours.
		ACGIH TLV (United States, 1/2023). [p-
		xylene and mixtures containing p-xylene]
		Ototoxicant.
		TWA: 20 ppm 8 hours.
Diethanolamine	111-42-2	ACGIH TLV (United States, 1/2023).
		Absorbed through skin.
		TWA: 1 mg/m <sup>3</sup> 8 hours. Form: Inhalable
		fraction and vapor
		NIOSH REL (United States, 10/2020).
		TWA: 3 ppm 10 hours.
		TWA: 15 mg/m³ 10 hours.
		, °

#### Occupational exposure limits (Canada)

Taluana	
Toluene 1	08-88-3 CA Alberta Provincial (Canada, 6/2018). Absorbed through skin. 8 hrs OEL: 50 ppm 8 hours. 8 hrs OEL: 188 mg/m <sup>3</sup> 8 hours. CA British Columbia Provincial (Canada, 6/2022). TWA: 20 ppm 8 hours. CA Ontario Provincial (Canada, 6/2019). TWA: 20 ppm 8 hours. CA Quebec Provincial (Canada, 6/2022). TWAEV: 20 ppm 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). Absorbed through skin. STEL: 60 ppm 15 minutes. TWA: 50 ppm 8 hours.
Normal propane 7	4-98-6 <b>CA Alberta Provincial (Canada, 6/2018).</b> 8 hrs OEL: 1000 ppm 8 hours.

		CA Quebec Provincial (Canada, 6/2022). TWAEV: 1000 ppm 8 hours. TWAEV: 1800 mg/m <sup>3</sup> 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 1250 ppm 15 minutes. TWA: 1000 ppm 8 hours. CA British Columbia Provincial (Canada, 6/2022). Oxygen Depletion [Asphyxiant]. Explosive potential.
		CA Ontario Provincial (Canada, 6/2019). Oxygen Depletion [Asphyxiant]. Explosive potential.
Petroleum refining, hydrotreated light distillate	64742-47-8	<ul> <li>CA British Columbia Provincial (Canada, 6/2022). [Kerosene/Jet fuels as total hydrocarbon vapour] Absorbed through skin. Notes: Application restricted to conditions in which there are negligible aerosol exposures. TWA: 200 mg/m³, (as total hydrocarbon vapour) 8 hours.</li> <li>CA Alberta Provincial (Canada, 6/2018). [Kerosene/Jet fuels as total hydrocarbon vapour] Absorbed through skin. 8 hrs OEL: 200 mg/m³, (as total hydrocarbon vapour) 8 hours.</li> <li>CA Ontario Provincial (Canada, 6/2019). Absorbed through skin. TWA: 200 mg/m³, (as total hydrocarbon vapour) 8 hours.</li> </ul>
Butane	106-97-8	<ul> <li>CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 1000 ppm 8 hours.</li> <li>CA Quebec Provincial (Canada, 6/2022). TWAEV: 800 ppm 8 hours. TWAEV: 1900 mg/m<sup>3</sup> 8 hours.</li> <li>CA Saskatchewan Provincial (Canada, 7/2013). [Butane all isomers] STEL: 1250 ppm 15 minutes. TWA: 1000 ppm 8 hours.</li> <li>CA British Columbia Provincial (Canada, 6/2022). [butane, all isomers] Explosive potential. STEL: 1000 ppm 15 minutes.</li> <li>CA Ontario Provincial (Canada, 6/2019).</li> <li>[Butane, All isomers] Explosive potential. STEL: 1000 ppm 15 minutes.</li> </ul>
Kaolin	1332-58-7	<ul> <li>CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 2 mg/m<sup>3</sup> 8 hours. Form: Respirable</li> <li>CA Quebec Provincial (Canada, 6/2022). TWAEV: 2 mg/m<sup>3</sup> 8 hours. Form: Respirable dust.</li> <li>CA Ontario Provincial (Canada, 6/2019). TWA: 2 mg/m<sup>3</sup> 8 hours. Form: Respirable particulate matter.</li> <li>CA Saskatchewan Provincial (Canada,</li> </ul>
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#### Section 8. Exposure controls/personal protection 7/2013). STEL: 4 mg/m<sup>3</sup> 15 minutes. Form: respirable fraction TWA: 2 mg/m<sup>3</sup> 8 hours. Form: respirable fraction CA British Columbia Provincial (Canada, 6/2022). Notes: the value is for particulate matter containing no asbestos and less than 1% crystalline silica. TWA: 2 mg/m<sup>3</sup> 8 hours. Form: Respirable Xylene 1330-20-7 CA Alberta Provincial (Canada, 6/2018). [Dimethylbenzene (o,m & p isomers)] 8 hrs OEL: 100 ppm 8 hours. 15 min OEL: 651 mg/m<sup>3</sup> 15 minutes. 15 min OEL: 150 ppm 15 minutes. 8 hrs OEL: 434 mg/m<sup>3</sup> 8 hours. CA British Columbia Provincial (Canada, 6/2022). [Xylene (o, m & p isomers)] TWA: 100 ppm 8 hours. STEL: 150 ppm 15 minutes. CA Quebec Provincial (Canada, 6/2022). [Xylene (o-,m-,p- isomers)] TWAEV: 100 ppm 8 hours. TWAEV: 434 mg/m<sup>3</sup> 8 hours. STEV: 150 ppm 15 minutes. STEV: 651 ma/m<sup>3</sup> 15 minutes. CA Ontario Provincial (Canada, 6/2019). [Xylene (o-, m-, p-isomers)] STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). [Xylene (o, m-, p-isomers)] STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours. Diethanolamine 111-42-2 CA Ontario Provincial (Canada, 6/2019). Absorbed through skin. TWA: 1 mg/m<sup>3</sup> 8 hours. Form: Inhalable fraction and vapour. CA Quebec Provincial (Canada, 6/2022). Absorbed through skin. TWAEV: 1 mg/m<sup>3</sup> 8 hours. Form: inhalable dust and vapor fraction CA Alberta Provincial (Canada, 6/2018). Absorbed through skin. 8 hrs OEL: 2 mg/m<sup>3</sup> 8 hours. CA British Columbia Provincial (Canada, 6/2022). Absorbed through skin. TWA: 2 mg/m<sup>3</sup> 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). Absorbed through skin. STEL: 4 ma/m<sup>3</sup> 15 minutes. TWA: 2 mg/m<sup>3</sup> 8 hours.

**Occupational exposure limits (Mexico)** 

	CAS #	Exposure limits
Toluene	108-88-3	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 20 ppm 8 hours.
Light Aliphatic Hydrocarbon	64742-47-8	ACGIH TLV (United States, 1/2023). [Kerosene as total hydrocarbon vapor] Absorbed through skin. TWA: 200 mg/m <sup>3</sup> , (as total hydrocarbon vapor) 8 hours.

#### **Biological exposure indices (United States)**

Ingredient name	Exposure indices
Toluene       ACGIH BEI (United States, 1/2         BEI: 0.03 mg/l, toluene [in urin       BEI: 0.03 mg/l, toluene [in urin         time: end of shift.       BEI: 0.3 mg/g creatinine, o-cres         Sampling time: end of shift.       BEI: 0.02 mg/l, toluene [in block         time: prior to last shift of workweit       BEI: 0.02 mg/l, toluene [in block	
Xylene, mixed isomers	ACGIH BEI (United States, 1/2023) [xylenes (technical or commercial grade)] BEI: 1.5 g/g creatinine, methylhippuric acids [in urine]. Sampling time: end of shift.

#### **Biological exposure indices (Canada)**

No exposure indices known.

#### **Biological exposure indices (Mexico)**

Ingredient name	Exposure indices
Toluene	Official Mexican STANDARD NOM- 047-SSA1-2011, Environmental Health- Biological exposure indices for personnel occupationally exposed to chemical substances. (Mexico, 6/2012) BEI: 0.05 mg/L, toluene [in blood]. Sampling time: sample time not specified. BEI: 1.6 g/g creatinine [Basal level.The determinant may be present in the biological sample obtained from subjects who have not been occupationally exposed, at a concentration that could affect the interpretation of the results. These background levels are included in the valu; non-specific.The determinant is nonspecific, since it can be found after exposure to other chemicals.], hippuric acid [in urine]. Sampling time: at the end of the work shift. BEI: 0.5 mg/L [Basal level.The determinant may be present in the biological sample obtained from subjects who have not been occupationally exposed, at a concentration that could affect the interpretation of the results. These background levels are included in the valu], o-cresol [in urine]. Sampling time: at the end of the work shift.
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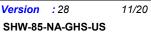
Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Environmental exposure controls	This product contains a TSCA regulated chemical. See Section 15 of the US SDS for details.
	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. 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.

: Liquid.	
: White.	
: Not available.	
: Not available.	
: 7	
: Not available.	
	<ul><li>White.</li><li>Not available.</li><li>Not available.</li></ul>

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### Section 9. Physical and chemical properties

Boiling point, initial boiling point, and boiling range	: Not available.		
Flash point	: Clo	sed cup: -29°C (-20.2°F) [Pensky-Martens Closed Cup]	
Evaporation rate	: 2 (b	outyl acetate = 1)	
Flammability	: Fla	mmable aerosol.	
Lower and upper explosion limit/flammability limit		ver: 0.9% ber: 9.5%	
Vapor pressure	: 101	.3 kPa (760 mm Hg)	
Relative vapor density	: 1[A	sir = 1]	
Relative density	: 0.8	3	
Solubility(ies)	:		
Media		Result	
cold water		Partially soluble	
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			
Type of aerosol	: Spr	ау	
Heat of combustion	: 15.	103 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).
Incompatible materials	: No specific data.
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

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# Section 11. Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
Toluene	LC50 Inhalation Vapor	Rat	49 g/m³	4 hours
	LD50 Oral	Rat	636 mg/kg	-
Butane	LC50 Inhalation Vapor	Rat	658000 mg/m <sup>3</sup>	4 hours
Xylene, mixed isomers	LC50 Inhalation Gas.	Rat	6700 ppm	4 hours
	LD50 Oral	Rat	4300 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Toluene	Eyes - Mild irritant	Rabbit	-	0.5 minutes	-
				100 mg	
	Eyes - Mild irritant	Rabbit	-	870 ug	-
	Eyes - Severe irritant	Rabbit	-	24 hours 2	-
				mg	
	Skin - Mild irritant	Pig	-	24 hours 250	-
				uL	
	Skin - Mild irritant	Rabbit	-	435 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
				mg	
	Skin - Moderate irritant	Rabbit	-	500 mg	-
Titanium Dioxide	Skin - Mild irritant	Human	-	72 hours 300	-
				ug l	
Xylene, mixed isomers	Eyes - Mild irritant	Rabbit	-	87 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5	-
	,			mg	
	Skin - Mild irritant	Rat	-	8 hours 60 uL	-
	Skin - Moderate irritant	Rabbit	-	100 %	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
Diethanolamine	Eyes - Severe irritant	Rabbit	-	5500 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 750	-
				ug	
	Skin - Mild irritant	Rabbit	-	50 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	_
				mg	

#### **Sensitization**

Not available.

#### **Mutagenicity**

Not available.

#### **Carcinogenicity**

Not available.

#### **Classification**

Product/ingredient name	OSHA	IARC	NTP
Toluene Titanium Dioxide Xylene, mixed isomers Diethanolamine	- - -	3 2B 3 2B	- - - -

#### **Reproductive toxicity**

Not available.

#### **Teratogenicity**

Not available.

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# Section 11. Toxicological information

#### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Toluene	Category 3	-	Narcotic effects
Light Aliphatic Hydrocarbon	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Lt. Aliphatic Hydrocarbon Solvent	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Xylene, mixed isomers	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects

#### Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Toluene Light Aliphatic Hydrocarbon	Category 2 Category 2	-	-
Kaolin	Category 2 Category 1	- inhalation	- lungs
Lt. Aliphatic Hydrocarbon Solvent Xylene, mixed isomers	Category 2 Category 2	-	-
Diethanolamine	Category 2	-	-

#### Aspiration hazard

Name	Result
Toluene	ASPIRATION HAZARD - Category 1 💦 🥄
Light Aliphatic Hydrocarbon	ASPIRATION HAZARD - Category 1
Lt. Aliphatic Hydrocarbon Solvent	ASPIRATION HAZARD - Category 1
Xylene, mixed isomers	ASPIRATION HAZARD - Category 1

#### Information on the likely : Not available.

routes of exposure

Potential acute health effec	<u>ts</u>	
Eye contact	: Causes serious eye irritation.	
Inhalation	: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.	
Skin contact	: Causes skin irritation.	
Ingestion	: Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.	
Symptoms related to the ph	ysical, 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 nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness	
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## Section 11. Toxicological information

	reduced fetal weight increase in fetal deaths skeletal malformations	
Skin contact	: Adverse symptoms may include the following: irritation redness reduced fetal weight increase in fetal deaths skeletal malformations	
Ingestion	: Adverse symptoms may include the following: nausea or vomiting reduced fetal weight increase in fetal deaths skeletal malformations	
Delayed and immediate eff	ects and also chronic effects from short and long term exposure	
<u>Short term exposure</u>		
Potential immediate effects	: Not available.	
Potential delayed effects	: Not available.	
Long term exposure		
Potential immediate effects	: Not available.	
Potential delayed effects	: Not available.	
Potential chronic health ef	<u>fects</u>	
i otential chionic nealth en		
Not available.		
	: Causes damage to organs through prolonged or repeated exposure.	
Not available.	<ul> <li>Causes damage to organs through prolonged or repeated exposure.</li> <li>Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.</li> </ul>	
Not available. General	: Suspected of causing cancer. Risk of cancer depends on duration and level of	
Not available. General Carcinogenicity	: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.	
Not available. General Carcinogenicity Mutagenicity	<ul> <li>Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.</li> <li>No known significant effects or critical hazards.</li> </ul>	

### Acute toxicity estimates

Not available.

# Section 12. Ecological information

**Toxicity** 

## Section 12. Ecological information

Product/ingredient name	Result	Species	Exposure
Toluene	Acute EC50 >433 ppm Marine water	Algae - Skeletonema costatum	96 hours 🥄
	Acute EC50 11600 µg/l Fresh water	Crustaceans - Gammarus pseudolimnaeus - Adult	48 hours
	Acute EC50 6000 µg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 5500 μg/l Fresh water	Fish - Oncorhynchus kisutch - Fry	96 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Daphnia magna	21 days
Light Aliphatic Hydrocarbon	Acute LC50 2200 µg/l Fresh water	Fish - Lepomis macrochirus	4 days
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
Xylene, mixed isomers	Acute LC50 8500 μg/l Marine water	Crustaceans - <i>Palaemonetes</i>	48 hours
	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Diethanolamine	Acute EC50 103000 µg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute LC50 28800 µg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 2150 µg/l Fresh water	Daphnia - <i>Daphnia pulex</i>	48 hours
	Acute LC50 775 mg/l Fresh water	Fish - Lepomis macrochirus	96 hours

#### Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Toluene	-	-	Readily
Xylene, mixed isomers	-	-	Readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Toluene Lt. Aliphatic Hydrocarbon Solvent	-	90 10 to 2500	Low High
Xylene, mixed isomers	-	8.1 to 25.9	Low

#### Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

## Section 13. Disposal considerations

Disposal methods	: This product contains a TSCA regulated chemical. See Section 15 of the US SDS for details.
	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. Empty containers or liners may retain some product residues. Do not

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### Section 13. Disposal considerations

puncture or incinerate container.

### Section 14 Transport information

	DOT Classification	TDG Classification	Mexico Classification	ΙΑΤΑ	IMDG
UN number	UN1950	UN1950	UN1950	UN1950	UN1950
UN proper shipping name	AEROSOLS	AEROSOLS	AEROSOLS	AEROSOLS, flammable	AEROSOLS
Transport hazard class(es)	2.1	2.1	2.1	2.1	2.1
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.
Additional information	-	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.13-2.17 (Class 2).	-	-	<u>Emergency</u> <u>schedules</u> F-D, S U
	ERG No.	ERG No.	ERG No.		
	126 Dependent upon container size, this product may ship under the Limited Quantity shipping exception.	126 Dependent upon container size, this product may ship under the Limited Quantity shipping exception.	126 Dependent upon container size, this product may ship under the Limited Quantity shipping exception.	Dependent upon container size, this product may ship under the Limited Quantity shipping exception.	Dependent upon container size, this product may ship unde the Limited Quantity shipping exception.
Special precautions	mode o suitably to shipr of the p dangero and on	er container sizes. Th f transport (sea, air, f for that mode of tran nent, and compliance erson offering the pro pus goods must be tr all actions in case of	e presence of a ship etc.), does not indic nsport. All packaging with the applicable oduct for transport. I rained on all of the ri	pping description for ate that the product is must be reviewed for regulations is the so People loading and us sks deriving from the	a particular s packaged or suitability prior ole responsibility inloading

to IMO instruments

Proper shipping name : Not available.

### Section 15. Regulatory information

U.S. Federal regulations	: TSCA 5(a)2 final significant new use rules: 2-Methoxyethanol; 2-Ethoxyethanol			
	<u>List name</u>	Chemical name	<u>Notes</u>	
	United States - TSCA 5(a) 2 - Final significant new use rules	2-Methoxyethanol	40 CFR 721.10001	
	United States - TSCA 5(a) 2 - Final significant new	2-Ethoxyethanol	40 CFR 721.10001	

#### SARA 313

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

#### 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

use rules

Not listed.

 International lists
 : Australia inventory (AIC): Not determined.

 China inventory (IECSC): Not determined.
 Japan inventory (CSCL): Not determined.

 Japan inventory (ISHL): 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.
 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

### Section 16. Other information

	Justification			
FLAMMABLE AEROSOLS - Category 1 GASES UNDER PRESSURE - Compressed gas SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 ASPIRATION HAZARD - Category 1		On basis of test data On basis of test data Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method		
<u>History</u>				
Date of printing	: 4/18/2024			
Date of issue/Date of revision	: 4/18/2024			
Date of previous issue	: 1/21/2024			
Version	: 28			
Key to abbreviations	<ul> <li>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</li> </ul>			

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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