SAFETY DATA SHEET

GC67000

Section 1. Identification

Product name	: Geocel® 2321® Construction Tripolymer Gutter and Narrow Seam Sealant Clear
Product code	: GC67000
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	: Geocel Products Group A Business Unit of the Sherwin-Williams Company 101 W. Prospect Avenue Cleveland, Ohio 44115
National contact	: Sherwin-Williams Canada Inc. 180 Brunel Road Mississauga, Ontario L4Z 1T5 Canada
Emergency telephone number of the company Product Information Telephone Number	 US / Canada: (800) 424-9300 Mexico: SETIQ 800-00-214-00 / 55-5559-1588 Available 24 hours and 365 days a year US / Canada: (800) 348-7615 Mexico: Not Available
Regulatory Information Telephone Number	: US / Canada: (216) 566-2902 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. Hazards identification

Classification of the substance or mixture	: ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B CARCINOGENICITY - Category 1B TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1 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: 14% (oral), 63.7% (dermal), 14% (inhalation)

GHS label elements Hazard pictograms



Section 2. Hazards identification

Signal word	: Danger
Hazard statements	 Causes skin and eye irritation. Harmful if inhaled. May cause drowsiness or dizziness. May cause cancer. Suspected of damaging fertility or the unborn child. Causes damage to organs. May cause damage to organs through prolonged or repeated exposure.
Precautionary statements	
General	: Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.
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. 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.
Response	: IF exposed: Call a POISON CENTER or doctor. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. 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	: Store locked up. Store in a well-ventilated place. Keep container tightly closed.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.
	Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage.
Hazards not otherwise classified	: None known.

Section 3. Composition/information on ingredients

Substance/mixture

Other means of identification

: Mixture

: Not available.

CAS number/other identifiers

Ingredient name		% by weight	CAS number
Tetrachloroethylene		49.7	127-18-4
Hydrocarbon Polymer		15.59	-
Styrene-Hydrocarbon Copc	lymer	9.78	9011-11-4
Polybutene	-	4.2	9003-29-6
Fumed Amorphous Silica		2.88	112945-52-5
Light Aromatic Hydrocarbo	าร	1.8	64742-95-6
trimethylbenzene		0.94	25551-13-7
1,3,5-Trimethylbenzene		0.39	108-67-8
1,2,4-Trimethylbenzene		0.39	95-63-6
Light Stabilizer		0.13	52829-07-9
Xylene, mixed isomers		0.12	1330-20-7
1,2,3-Trimethylbenzene		0.12	526-73-8
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Section 3. Composition/information on ingredients

Cumene

98-82-8

0.12

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	<u>/ first aid measures</u>
Eye contact	 Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	: 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. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	: Causes eye irritation.
Inhalation	 Harmful if inhaled. Causes damage to organs following a single exposure if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	: Causes damage to organs following a single exposure in contact with skin. Causes skin irritation.
Ingestion	: Causes damage to organs following a single exposure if swallowed. Can cause central nervous system (CNS) depression.
Over-exposure signs/	<u>symptoms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness

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Section 4. First aid measures

Inhalation	: Adverse symptoms may include the following: 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: reduced fetal weight increase in fetal deaths skeletal malformations
Indication of immediate med	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.

Section 5. Fire-fighting measures	5
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See toxicological information (Section 11)

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Extinguishing media			
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fir	e.	
Unsuitable extinguishing media	: None known.		
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the	e container may burst.	
Hazardous thermal decomposition products	: Decomposition products may include the following materia carbon dioxide carbon monoxide halogenated compounds carbonyl halides metal oxide/oxides	als:	
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from there is a fire. No action shall be taken involving any perstraining.		
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipmen apparatus (SCBA) with a full face-piece operated in positiv		ng
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Section 6. Accidental release measures

Personal precautions, prote	ctiv	e 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. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	5 :	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 c	ont	ainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. 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. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. 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 ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. 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 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. 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
Tetrachloroethylene	127-18-4	ACGIH TLV (United States, 1/2021). TWA: 25 ppm 8 hours. TWA: 170 mg/m ³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 685 mg/m ³ 15 minutes. OSHA PEL Z2 (United States, 2/2013). TWA: 100 ppm 8 hours. CEIL: 200 ppm AMP: 300 ppm 5 minutes.
Hydrocarbon Polymer Styrene-Hydrocarbon Copolymer Polybutene Fumed Amorphous Silica	9011-11-4 9003-29-6 112945-52-5	None. None. None. NIOSH REL (United States, 10/2020).
Light Aromatic Hydrocarbons	64742-95-6	TWA: 6 mg/m³ 10 hours. None.
trimethylbenzene	25551-13-7	ACGIH TLV (United States, 1/2021). TWA: 25 ppm 8 hours. TWA: 123 mg/m ³ 8 hours.
1,3,5-Trimethylbenzene	108-67-8	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	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.
Light Stabilizer Xylene, mixed isomers	52829-07-9 1330-20-7	None. ACGIH TLV (United States, 1/2021). 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, 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.
Cumene	98-82-8	ACGIH TLV (United States, 1/2021). TWA: 5 ppm 8 hours. NIOSH REL (United States, 10/2020). Absorbed through skin. TWA: 50 ppm 10 hours. TWA: 245 mg/m ³ 10 hours. OSHA PEL (United States, 5/2018).
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Section 8. Exposure controls/personal protection

	Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 245 mg/m³ 8 hours.	
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Occupational exposure limits (Canada)

	CAS #	Exposure limits		
Tetrachloroethylene	127-18-4	 CA Alberta Provincial (Canada, 6/2018). 15 min OEL: 678 mg/m³ 15 minutes. 15 min OEL: 100 ppm 15 minutes. 8 hrs OEL: 25 ppm 8 hours. 8 hrs OEL: 170 mg/m³ 8 hours. CA British Columbia Provincial (Canada, 6/2021). TWA: 25 ppm 8 hours. STEL: 100 ppm 15 minutes. CA Ontario Provincial (Canada, 6/2019). TWA: 25 ppm 8 hours. STEL: 100 ppm 15 minutes. CA Quebec Provincial (Canada, 6/2021). TWAEV: 25 ppm 8 hours. STEL: 100 ppm 15 minutes. CA Quebec Provincial (Canada, 6/2021). TWAEV: 25 ppm 8 hours. STEV: 100 ppm 15 minutes. STEV: 100 ppm 15 minutes. STEV: 100 ppm 15 minutes. STEV: 685 mg/m³ 15 minutes. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 100 ppm 15 minutes. TWA: 25 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/m³ 15 minutes. 15 min OEL: 150 ppm 15 minutes. 8 hrs OEL: 434 mg/m³ 8 hours. CA British Columbia Provincial (Canada, 6/2021). TWA: 100 ppm 8 hours. STEL: 150 ppm 15 minutes. CA Quebec Provincial (Canada, 6/2021). TWAEV: 100 ppm 8 hours. TWAEV: 100 ppm 8 hours. STEV: 150 ppm 15 minutes. STEV: 150 ppm 15 minutes. STEV: 651 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours. TWA: 100 ppm 8 hours. STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours. STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours. TWA: 100 ppm 15 minutes. TWA: 100 ppm 15 minutes. 		
Cumene	98-82-8	 CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 50 ppm 8 hours. 8 hrs OEL: 246 mg/m³ 8 hours. CA British Columbia Provincial (Canada, 6/2021). TWA: 25 ppm 8 hours. STEL: 75 ppm 15 minutes. CA Ontario Provincial (Canada, 6/2019). 		
		CA Offario Provincial (Callada, 6/2019).		

Section 8. Exposure controls/personal protection

TWA: 50 ppm 8 hours.
CA Quebec Provincial (Canada, 6/2021).
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.

Occupational exposure limits (Mexico)

Ingredient name	CAS # Exposure limits	
Tetrachloroethylene	127-18-4	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 25 ppm 8 hours. STEL: 100 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.
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measure	<u>5</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.
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.

<u>Appearance</u>	
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 point, and boiling range	: 121°C (249.8°F)
Flash point	: Closed cup: Not applicable.
Evaporation rate	: 2.59 (butyl acetate = 1)
Flammability	: Not available.
Lower and upper explosion limit/flammability limit	: Lower: 0.7% Upper: 7%
Vapor pressure	: 2.4 kPa (18 mm Hg)
Relative vapor density	: 4.1 [Air = 1]
Relative density	: 1.23
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 mm ² /s (<20.5 cSt)
Molecular weight	: Not applicable.
Aerosol product	
Heat of combustion	: 3.782 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	: No specific data.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Tetrachloroethylene	LD50 Oral	Rat	2629 mg/kg	-
Fumed Amorphous Silica	LD50 Oral	Rat	3160 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	-
Light Stabilizer	LC50 Inhalation Vapor	Rat	500 mg/m ³	4 hours
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	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Tetrachloroethylene	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
-				mg	
	Eyes - Mild irritant	Rabbit	-	162 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
	Skin - Severe irritant	Rabbit	-	24 hours 810	-
				mg	
Light Aromatic Hydrocarbons	Eyes - Mild irritant	Rabbit	-	24 hours 100	-
				uL	
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 uL	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
	Skin - Moderate irritant	Rabbit	-	100 %	-
Cumene	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
	The second state of the second	D. L. H		mg	
	Eyes - Mild irritant	Rabbit	-	86 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 10	-
	Ohin Madanata imiterat	Dahkit		mg	
	Skin - Moderate irritant	Rabbit	-	24 hours 100	-
				mg	

Sensitization

Not available.

Mutagenicity

Not available.

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Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
Tetrachloroethylene Fumed Amorphous Silica Xylene, mixed isomers Cumene	- - -	2A 3 3 2B	Reasonably anticipated to be a human carcinogen. - - Reasonably anticipated to be a human carcinogen.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Tetrachloroethylene	Category 1	-	-
-	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
Xylene, mixed isomers	Category 3	-	Respiratory tract irritation
1,2,3-Trimethylbenzene	Category 3	-	Respiratory tract irritation
Cumene	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects

Specific target organ toxicity (repeated exposure)

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

Aspiration hazard

Name	Result
Polybutene	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
Xylene, mixed isomers	ASPIRATION HAZARD - Category 1
1,2,3-Trimethylbenzene	ASPIRATION HAZARD - Category 1
Cumene	ASPIRATION HAZARD - Category 1

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Information on the likely routes of exposure	: Not available.
Potential acute health effe	<u>cts</u>
Eye contact	: Causes eye irritation.
Inhalation	: Harmful if inhaled. Causes damage to organs following a single exposure if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	: Causes damage to organs following a single exposure in contact with skin. Causes skin irritation.
Ingestion	: Causes damage to organs following a single exposure if swallowed. Can cause central nervous system (CNS) depression.
Symptoms related to the p	hysical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: 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: reduced fetal weight increase in fetal deaths skeletal malformations
Delayed and immediate eff	ects and also chronic effects from short and long term exposure
Short term exposure Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health ef	<u>fects</u>
General	: May cause damage to organs through prolonged or repeated exposure.
Carcinogenicity Mutagenicity	May cause cancer. Risk of cancer depends on duration and level of exposure.No known significant effects or critical hazards.
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: No known significant effects or critical hazards.

Developmental effects Fertility effects

Teratogenicity

: No known significant effects or critical hazards.

: Suspected of damaging fertility.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	4550.42 mg/kg
Inhalation (vapors)	19.04 mg/l

Section 12. Ecological information

Toxicity Product/ingredient name Result **Species Exposure** Tetrachloroethylene Acute EC50 504 ppm Marine water Algae - Skeletonema costatum 96 hours Acute EC50 3.64 mg/l Fresh water Algae - Chlamydomonas 72 hours reinhardtii - Exponential growth phase Acute LC50 3.5 mg/l Marine water Crustaceans - Elminius modestus 48 hours Acute LC50 3.40071 mg/l Fresh water Daphnia - Daphnia magna 48 hours Acute LC50 4000 µg/l Fresh water Fish - Jordanella floridae -96 hours Juvenile (Fledgling, Hatchling, Weanling) Algae - Chlamydomonas Chronic EC10 1.77 mg/l Fresh water 72 hours reinhardtii - Exponential growth phase Chronic NOEC 0.4 mg/l Fresh water Daphnia - Daphnia magna 21 days Chronic NOEC 500 µg/l Fresh water Fish - Pimephales promelas -32 days Larvae trimethylbenzene Acute LC50 5600 µg/l Marine water Crustaceans - Palaemonetes 48 hours pugio 1,3,5-Trimethylbenzene Acute LC50 13000 µg/l Marine water Crustaceans - Cancer magister -48 hours Zoea Acute LC50 12520 µg/l Fresh water Fish - Carassius auratus 96 hours Chronic NOEC 400 µg/l Fresh water Daphnia - Daphnia magna 21 days Acute LC50 4910 µg/l Marine water 1,2,4-Trimethylbenzene Crustaceans - Elasmopus 48 hours pectenicrus - Adult Fish - Pimephales promelas Acute LC50 7720 µg/l Fresh water 96 hours Crustaceans - Palaemonetes Acute LC50 8500 µg/l Marine water Xylene, mixed isomers 48 hours pugio Acute LC50 13400 µg/l Fresh water Fish - Pimephales promelas 96 hours Acute EC50 7.4 mg/l Marine water Cumene Crustaceans - Artemia sp. -48 hours Nauplii Acute EC50 10.6 mg/l Fresh water Daphnia - Daphnia magna -48 hours Neonate Acute LC50 2700 µg/l Fresh water Fish - Oncorhynchus mykiss 96 hours

Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Light Aromatic Hydrocarbons Xylene, mixed isomers	-	-	Readily Readily

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Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential	
Tetrachloroethylene	-	49	low	
Polybutene	-	314 to 1882	high	
Light Aromatic Hydrocarbons	-	10 to 2500	high	
1,3,5-Trimethylbenzene	-	161	low	
1,2,4-Trimethylbenzene	-	243	low	
Xylene, mixed isomers	-	8.1 to 25.9	low	
1,2,3-Trimethylbenzene	-	194.98	low	
Cumene	-	35.48	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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains
	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

	DOT Classification	TDG Classification	Mexico Classification	ΙΑΤΑ	IMDG
UN number	UN1897	UN1897	UN1897	UN1897	UN1897
UN proper shipping name	Tetrachloroethylene mixture	Tetrachloroethylene mixture	Tetrachloroethylene mixture	Tetrachloroethylene mixture	Tetrachloroethylene mixture. Marine pollutant (Light Aromatic Hydrocarbons)
Transport	6.1	6.1	6.1	6.1	6.1
hazard class(es)	POECO				
Packing group	III	III	111	III	111
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Section 14. Transport information

Environmental	No.	No.	No.	Yes. The	Yes.	
hazards				environmentally hazardous substance mark is not required.		
Additional information	-	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.26-2.36 (Class 6).	ctions ion of Goods :	The environmentally hazardous substance mark may appear if required by other transportation regulations.	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. <u>Emergency</u> <u>schedules</u> F-A, S A	
	ERG No.	ERG No.				
	160	160	160			
Special precaution	consid mode suitab prior t respo unload substa	modal shipping descrip der container sizes. Th of transport (sea, air, ly for that mode of tran o shipment, and comp nsibility of the person of ding dangerous goods ances and on all action	e presence of a sh etc.), does not indi- nsport. All packagir liance with the app offering the produc- must be trained or	ipping description for cate that the product ng must be reviewed licable regulations is t for transport. People a all of the risks deriv	a particular is packaged for suitability the sole e loading and	
ransport in bulk a IMO instruments	-	allable.				
	Proper	shipping name	: Not available.			
Section 15.	Regulatory i	nformation				
International reg	<u>ulations</u>					
International list	Chi Jap Jap	stralia inventory (AllC na inventory (IECSC) an inventory (CSCL) an inventory (ISHL): rea inventory (KECI):	Not determined. Not determined. 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.

: 2/11/2022

Section 16. Other information

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



The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

Procedure used to derive the classification

Classification	Justification
ACUTE TOXICITY (inhalation) - Category 4	Calculation method
SKIN CORROSION/IRRITATION - Category 2	Calculation method
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B	Calculation method
CARCINOGENICITY - Category 1B	Calculation method
TOXIC TO REPRODUCTION - Category 2	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -	Calculation method
Category 3	
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2	Calculation method
History	·
Date of printing : 6/17/2022	

Date of printing	. 0/1//2022
Date of issue/Date of revision	: 6/17/2022
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Version	: 18
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 = International Air Transport Association IBC = 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

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Section 16. Other information

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.