

SAFETY DATA SHEET

Section 1. Identification

Product name : CRO195 CORROSION INHIBITOR

Product code : CRO195

Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Corrosion inhibitor

 Print date
 : 1/12/2023

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 : 1/12/2023

 Version
 : 2.02

Supplier's details : Baker Petrolite LLC

12645 W. Airport Blvd. Sugar Land, TX 77478

For Product Information/SDSs Call: 800-231-3606

(8:00 a.m. - 5:00 p.m. CST, Monday - Friday) 281-276-5400

Emergency telephone number (with hours of

operation)

: CHEMTREC: 800-424-9300 (U.S. 24 hour)

Baker Petrolite: 800-231-3606

(001)281-276-5400

CHEMTREC Int'l 01-703-527-3887 (International 24 hour)

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 - Category 1 SERIOUS EYE DAMAGE - Category 1 CARCINOGENICITY - Category 2

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract

irritation) - Category 3

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -

Category 3

AQUATÍC HAZARD (ACUTE) - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 2

GHS label elements

Hazard pictograms :











Signal word : Danger

Section 2. Hazards identification

Hazard statements

: Mammable liquid and vapor.

Causes severe skin burns and eye damage.

May cause respiratory irritation.

May cause drowsiness or dizziness.

Suspected of causing cancer.

Causes damage to organs. (optic nerve)
Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention

btain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves: > 8 hours (breakthrough time): Nitrile or Neoprene gloves.. Wear protective clothing. Wear 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. Avoid release to the environment. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

Response

Collect spillage. IF exposed: Call a POISON CENTER or doctor. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

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.

Hazards not otherwise classified

: None known.

Additional information

The NIOSH IDLH (Immediately Dangerous to Life and Health) value for hydrogen sulfide is 100 ppm. Hydrogen sulfide odor is not a good warning property. The human sense of smell may become "fatigued" after a few minutes of exposure to hydrogen sulfide and no longer be able to detect the odor. See Section 11 for more detailed information on health effects and symptoms.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	%	CAS number
☑ght aromatic naphtha	30 - 40	64742-95-6
1,2,4-Trimethylbenzene	20 - 30	95-63-6
Phosphates	5 - 10	Trade secret.
Quaternary ammonium chloride	5 - 10	Trade secret.
1,3,5-Trimethylbenzene	5 - 10	108-67-8
1,2,3-Trimethylbenzene	1 - 5	526-73-8
Xylene	1 - 5	1330-20-7
Amine derivative	1 - 5	Trade secret.
Methanol	1 - 5	67-56-1
Cumene	0.1 - 1	98-82-8
Ethylbenzene	0.1 - 1	100-41-4
Hydrogen sulfide	0 - 0.1	7783-06-4

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

Section 3. Composition/information on ingredients

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

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.

Additional information

The 0.1% (1000 ppm) maximum hydrogen sulfide (H2S) content shown above is for the liquid phase. The headspace of containers of this product may contain levels of H2S higher than this.

** Since this chemical is a sub-component of a solvent added to this product, it is not a WHMIS regulated component of this controlled product.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact

: Get medical attention immediately. Call a poison center or physician. Immediately flush the eye(s) continuously with lukewarm, gently flowing water for at least 20-60 minutes while holding the eyelid(s) open. Check for and remove any contact lenses. Chemical burns must be treated promptly by a physician.

Inhalation

: Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. 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

: Get medical attention immediately. Call a poison center or physician. Wash affected area with soap and mild detergent for at least 20 - 60 minutes. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: Call a poison center or physician. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. 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. Chemical burns must be treated promptly by a 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.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact

: Causes serious eye damage.

Inhalation

: Zauses damage to organs following a single exposure if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.

Skin contact

: Causes severe burns. Causes damage to organs following a single exposure in contact with skin.

Ingestion

: Causes damage to organs following a single exposure if swallowed. Can cause central nervous system (CNS) depression.

Over-exposure signs/symptoms

Eye contact

: Adverse symptoms may include the following:,pain,watering,redness

Inhalation

: respiratory tract irritation,coughing,nausea or vomiting,headache,drowsiness/fatigue, dizziness/vertigo,unconsciousness

Section 4. First aid measures

Skin contact

: pain or irritation, redness, blistering may occur

Ingestion

: Adverse symptoms may include the following:,stomach pains

Indication of immediate medical 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, CO₂, alcohol-resistant foam or water spray (fog).

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. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products

: carbon dioxide,carbon monoxide,nitrogen oxides,sulfur oxides,phosphorus 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. Do not breathe 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".

Section 6. Accidental release measures

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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

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.

If RQ (Reportable Quantity) is exceeded, report to National Spill Response Office at 1-800-424-8802.

Additional information

Released material may contain residual sulfides. Spray residual material left after initial clean up with weak (approximately 5 percent) hydrogen peroxide to oxidize sufides. Recover as much solution as possible. A respirator suitable for H2S may be necessary in the event of a spill.

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. 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. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Store in original container, protected from direct sunlight. 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.

Additional information

Section 7. Handling and storage

Avoid inhalation of vapors near openings on storage containers and manufacturing equipment. This product should be transferred under negative pressure.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
☑ght aromatic naphtha 1,2,4-Trimethylbenzene	None. NIOSH REL (United States, 10/2020). TWA: 125 mg/m³, 0 times per shift, 10 hours. TWA: 25 ppm, 0 times per shift, 10 hours. OSHA PEL 1989 (United States, 3/1989). TWA: 125 mg/m³, 0 times per shift, 8 hours. TWA: 25 ppm, 0 times per shift, 8 hours. ACGIH TLV (United States, 1/2022). TWA: 10 ppm 8 hours.
Phosphates Quaternary ammonium chloride 1,3,5-Trimethylbenzene	None. None. ACGIH TLV (United States, 1/2022). TWA: 123 mg/m³, 0 times per shift, 8 hours. TWA: 10 ppm, 0 times per shift, 8 hours. NIOSH REL (United States, 10/2020). TWA: 125 mg/m³, 0 times per shift, 10 hours. TWA: 25 ppm, 0 times per shift, 10 hours. OSHA PEL 1989 (United States, 3/1989). TWA: 125 mg/m³, 0 times per shift, 8 hours. TWA: 25 ppm, 0 times per shift, 8 hours.
1,2,3-Trimethylbenzene	ACGIH TLV (United States, 1/2022). TWA: 123 mg/m³, 0 times per shift, 8 hours. TWA: 10 ppm, 0 times per shift, 8 hours. NIOSH REL (United States, 10/2020). TWA: 125 mg/m³, 0 times per shift, 10 hours. TWA: 25 ppm, 0 times per shift, 10 hours. OSHA PEL 1989 (United States, 3/1989). TWA: 125 mg/m³, 0 times per shift, 8 hours. TWA: 25 ppm, 0 times per shift, 8 hours.
Xylene	ACGIH TLV (United States, 1/2022). TWA: 20 ppm 8 hours. OSHA PEL 1989 (United States, 3/1989). TWA: 100 ppm 8 hours. TWA: 435 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 655 mg/m³ 15 minutes. OSHA PEL (United States, 5/2018). TWA: 100 ppm 8 hours. TWA: 435 mg/m³ 8 hours.
Amine derivative Methanol	None. ACGIH TLV (United States, 1/2022). Absorbed through skin. STEL: 328 mg/m³, 0 times per shift, 15 minutes. STEL: 250 ppm, 0 times per shift, 15 minutes. TWA: 262 mg/m³, 0 times per shift, 8 hours. TWA: 200 ppm, 0 times per shift, 8 hours. NIOSH REL (United States, 10/2020). Absorbed through skin. STEL: 325 mg/m³, 0 times per shift, 15 minutes.

Section 8. Exposure controls/personal protection

STEL: 250 ppm, 0 times per shift, 15 minutes.

TWA: 260 mg/m³, 0 times per shift, 10 hours.

TWA: 200 ppm, 0 times per shift, 10 hours.

OSHA PEL (United States, 5/2018).

TWA: 260 mg/m³, 0 times per shift, 8 hours. TWA: 200 ppm, 0 times per shift, 8 hours.

OSHA PEL 1989 (United States, 3/1989). Absorbed

through skin.

STEL: 325 mg/m³, 0 times per shift, 15 minutes. STEL: 250 ppm, 0 times per shift, 15 minutes. TWA: 260 mg/m³, 0 times per shift, 8 hours.

TWA: 200 ppm, 0 times per shift, 8 hours.

ACGIH TLV (United States, 1/2022).

TWA: 5 ppm, 0 times per shift, 8 hours.

NIOSH REL (United States, 10/2020). Absorbed through skin.

TWA: 245 mg/m³, 0 times per shift, 10 hours. TWA: 50 ppm. 0 times per shift. 10 hours.

OSHA PEL (United States, 5/2018). Absorbed through skin.

TWA: 245 mg/m³, 0 times per shift, 8 hours.

TWA: 50 ppm, 0 times per shift, 8 hours.

OSHA PEL 1989 (United States, 3/1989). Absorbed through skin.

TWA: 245 mg/m³. 0 times per shift. 8 hours. TWA: 50 ppm, 0 times per shift, 8 hours.

ACGIH TLV (United States, 1/2022). Ototoxicant.

TWA: 20 ppm. 0 times per shift. 8 hours.

NIOSH REL (United States, 10/2020).

STEL: 545 mg/m³, 0 times per shift, 15 minutes.

STEL: 125 ppm, 0 times per shift, 15 minutes.

TWA: 435 mg/m³, 0 times per shift, 10 hours.

TWA: 100 ppm, 0 times per shift, 10 hours.

OSHA PEL (United States, 5/2018).

TWA: 435 mg/m³, 0 times per shift, 8 hours.

TWA: 100 ppm, 0 times per shift, 8 hours.

OSHA PEL 1989 (United States, 3/1989).

STEL: 545 mg/m³, 0 times per shift, 15 minutes.

STEL: 125 ppm, 0 times per shift, 15 minutes.

TWA: 435 mg/m³. 0 times per shift. 8 hours.

TWA: 100 ppm, 0 times per shift, 8 hours.

ACGIH TLV (United States, 1/2022).

STEL: 5 ppm, 0 times per shift, 15 minutes.

TWA: 1 ppm, 0 times per shift, 8 hours.

NIOSH REL (United States, 10/2020).

CEIL: 15 mg/m³, 0 times per shift, 10 minutes.

CEIL: 10 ppm, 0 times per shift, 10 minutes.

OSHA PEL 1989 (United States, 3/1989).

STEL: 21 mg/m³, 0 times per shift, 15 minutes.

STEL: 15 ppm, 0 times per shift, 15 minutes. TWA: 14 mg/m³, 0 times per shift, 8 hours.

TWA: 10 ppm, 0 times per shift, 8 hours.

OSHA PEL Z2 (United States, 2/2013).

AMP: 50 ppm, 0 times per shift, 10 minutes.

CEIL: 20 ppm, 0 times per shift, 0 hours.

Cumene

Ethylbenzene

Hydrogen sulfide

Consult local authorities for acceptable exposure limits.

Section 8. Exposure controls/personal protection

If OSHA permissible exposure levels are shown above they are the OSHA 1989 levels or are from subsequent OSHA regulatory actions. Although the 1989 levels have been vacated the 11th Circuit Court of Appeals, Baker Hughes recommends that these lower exposure levels be observed as reasonable worker protection.

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.

Individual protection measures

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

: Wear chemical safety goggles. When transferring material wear face-shield in addition to chemical safety goggles. If inhalation hazards exist, a full-face respirator may be required instead.

Hand protection

: Chemical-resistant gloves: Nitrile or Neoprene gloves.

Skin protection

: Wear long sleeves and chemical resistant apron to prevent repeated or prolonged skin contact.

Respiratory protection

: Hydrogen sulfide accumulates in the headspace of containers of this product. During sealed transfer of this product under well-ventilated conditions, where inhalation exposure potential is minimal, respiratory protection is not expected to be necessary. However, if after a thorough hazard assessment respiratory protection is deemed necessary an appropriate supplied air respirator must be utilized.

Additional information

point, and boiling range

Prior to handling containers of this product, make sure to be wearing a hydrogen sulfide (H2S) monitor that is in sound working condition.

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 : Amber.

Odor : Mercaptan

Odor threshold : Not available.

pH : Not available.

Melting point/freezing point : Not available.

Initial Boiling Point : Not available.

Boiling point, initial boiling : Not available.

Flash point : Closed cup: 38°C (100.4°F) [SFCC ASTM D 3828]

Burning time : Not applicable.
Burning rate : Not applicable.
Evaporation rate : Not available.

Flammability : Flammable in the presence of the following materials or conditions: open flames, sparks

and static discharge and heat.

Section 9. Physical and chemical properties

Lower and upper explosion : Not available.

limit/flammability limit

Vapor pressure : 23.4 kPa (175.8 mm Hg (3.4 psig)) @ 54.44°C (130 F) (Reid)

Relative vapor density : >1 [Air = 1] : 0.9 (16°C) **Relative density Density** : 7.5 (lbs/gal) : Dispersible Solubility in water Partition coefficient: n-: Not applicable.

octanol/water

: Not available. **Auto-ignition temperature Decomposition temperature** : Not available.

Viscosity : Dynamic (16°C): 4.4 cP

: Not available. VOC **Pour Point** : -40°C (-40°F)

Particle characteristics

Median particle size : Not applicable.

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, reducing materials and acids.

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
☑ght aromatic naphtha	LD50 Oral	Rat	2900 mg/kg	-
1,2,4-Trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m ³	4 hours
	LD50 Oral	Rat	5 g/kg	-
Phosphates	LD50 Dermal	Rabbit	>8000 mg/kg	-
	LD50 Oral	Rat	9200 mg/kg	-
Quaternary ammonium chloride	LD50 Dermal	Rat	1664 mg/kg	-
	LD50 Oral	Rat	295 mg/kg	-
1,3,5-Trimethylbenzene	LC50 Inhalation Vapor	Rat	24000 mg/m ³	4 hours
	LD50 Oral	Rat	5000 mg/kg	-

Section 11. Toxicological information

Xylene	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
	LC50 Inhalation Vapor	Rat	29 mg/l	4 hours
	LD50 Dermal	Rabbit	20000 mg/kg	-
	LD50 Dermal	Rabbit	>1700 mg/kg	-
	LD50 Oral	Male rat	3523 mg/kg	-
	LD50 Oral	Rat	3287 mg/kg	-
Amine derivative	LD50 Dermal	Rabbit	>23500 mg/kg	-
	LD50 Oral	Rat	>19000 mg/kg	-
Methanol	LC50 Inhalation Gas.	Rat	145000 ppm	1 hours
	LC50 Inhalation Gas.	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Human	500 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-
Cumene	LC50 Inhalation Vapor	Mouse	10000 mg/m³	7 hours
	LC50 Inhalation Vapor	Rat	39000 mg/m³	4 hours
	LD50 Dermal	Rabbit	10600 mg/kg	-
	LD50 Oral	Rat	2.9 g/kg	-
Ethylbenzene	LD50 Dermal	Rabbit	15400 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
Hydrogen sulfide	LC50 Inhalation Gas.	Rat	444 ppm	4 hours
	LC50 Inhalation Vapor	Rat	700 mg/m ³	4 hours
i l	LCLo Inhalation Gas.	Man	634 ppm	1 hours

Irritation/Corrosion

No available toxicity data.

Sensitization

No available toxicity data.

Mutagenicity

No available toxicity data.

Carcinogenicity

Classification

Product/ingredient name	OSHA	IARC	NTP
▼ylene Cumene Ethylbenzene	-	3 2B 2B	- Reasonably anticipated to be a human carcinogen.

Reproductive toxicity

No available toxicity data.

Teratogenicity

No available toxicity data.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
☑ght aromatic naphtha	Category 3	-	Narcotic effects
1,2,4-Trimethylbenzene	Category 3	-	Respiratory tract irritation
1,3,5-Trimethylbenzene	Category 3	-	Respiratory tract irritation
1,2,3-Trimethylbenzene	Category 3	-	Respiratory tract irritation
Xylene	Category 3	-	Narcotic effects
Methanol	Category 1	oral	optic nerve
Cumene	Category 3	-	Respiratory tract

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Section 11. Toxicological information

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Ethylbenzene	Category 2	-	hearing organs

Aspiration hazard

Name	Result
Ight aromatic naphtha	ASPIRATION HAZARD - Category 1
1,2,3-Trimethylbenzene	ASPIRATION HAZARD - Category 1
Xylene	ASPIRATION HAZARD - Category 1
Cumene	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

: Routes of entry anticipated: Dermal, Inhalation.

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation :

✓ auses damage to organs following a single exposure if inhaled. Can cause central

nervous system (CNS) depression. May cause drowsiness or dizziness. May cause

respiratory irritation.

Skin contact : Causes severe burns. Causes damage to organs following a single exposure in contact

with skin.

Ingestion :

✓ auses damage to organs following a single exposure if swallowed. Can cause central

nervous system (CNS) depression.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: Adverse symptoms may include the following:,pain,watering,redness

Inhalation : respiratory tract irritation, coughing, nausea or vomiting, headache, drowsiness/fatigue,

dizziness/vertigo,unconsciousness

Skin contact : pain or irritation, redness, blistering may occur

Ingestion : Adverse symptoms may include the following:,stomach pains

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

General : No known significant effects or critical hazards.

Carcinogenicity : Suspected of causing cancer. Risk of cancer depends on duration and level of

exposure.

Mutagenicity : No known significant effects or critical hazards.Reproductive toxicity : No known significant effects or critical hazards.

Section 11. Toxicological information

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
PRO195 CORROSION INHIBITOR	2762	6689.7	132834.9	49.9	Not available.
Light aromatic naphtha	2900	Not available.	Not available.	Not available.	Not available.
1,2,4-Trimethylbenzene	5000	Not available.	Not available.	18	Not available.
Phosphates	9200	Not available.	Not available.	Not available.	Not available.
Quaternary ammonium chloride	500	1664	Not available.	Not available.	Not available.
1,3,5-Trimethylbenzene	5000	Not available.	Not available.	24	Not available.
Xylene	3287	1100	5000	29	Not available.
Methanol	100	300	64000	3	Not available.
Cumene	2900	10600	Not available.	39	Not available.
Ethylbenzene	3500	15400	Not available.	11	Not available.
Hydrogen sulfide	Not available.	Not available.	444	0.7	Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
,2,4-Trimethylbenzene	Acute LC50 4910 μg/l Marine water	Crustaceans - Elasmopus pectenicrus	48 hours
	Acute LC50 22.4 mg/l Fresh water	Fish - Tilapia zillii	96 hours
Phosphates	Acute EC50 0.48 mg/l	Algae - Skeletonema	72 hours
•	Acute LC50 3.2 mg/l	Fish	96 hours
Quaternary ammonium chloride	Acute LC50 0.145 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
1,3,5-Trimethylbenzene	Acute LC50 12520 to 15050 μg/l Fresh water	Fish - Carassius auratus	96 hours
	Chronic NOEC 400 µg/l Fresh water	Daphnia - Daphnia magna	21 days
Xylene	Acute LC50 8500 µg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 13400 μg/l Fresh water	Fish - Pimephales promelas	96 hours
Methanol	Acute EC50 16.912 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute EC50 10000000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 2500000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 100 mg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 9.96 mg/l Marine water	Algae - Ulva pertusa	96 hours
Cumene	Acute EC50 2600 μg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours

Section 12. Ecological information

	Acute LC50 7400 to 11290 µg/l Fresh water	Crustaceans - Artemia sp.	48 hours
	Acute LC50 30500 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 2700 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Ethylbenzene	Acute EC50 4600 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 2930 to 4400 μg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 5200 μg/l Marine water	Crustaceans - Americamysis bahia	48 hours
	Acute LC50 4200 μg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 1000 μg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
Hydrogen sulfide	Acute EC50 62 μg/l Fresh water	Crustaceans - Gammarus pseudolimnaeus	2 days
	Acute LC50 2 μg/l Fresh water	Fish - Coregonus clupeaformis - Yolk-sac fry	96 hours

Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
Phosphates	-	28 % - 28 days		-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodegradability	
Phosphates	-		-		Inherent	

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
☑ght aromatic naphtha	-	10 to 2500	high
1,2,4-Trimethylbenzene	3.63	243	low
1,3,5-Trimethylbenzene	3.42	161	low
1,2,3-Trimethylbenzene	3.66	194.98	low
Xylene	3.12	8.1 to 25.9	low
Methanol	-0.77	<10	low
Cumene	3.55	94.69	low
Ethylbenzene	3.6	-	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

: Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	IMDG	IATA
UN number	UN2924	UN2924	UN2924	UN2924
UN proper shipping name	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Contains: Methanol, Quaternary ammonium chloride)	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Contains: Methanol, Quaternary ammonium chloride)	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Contains: Methanol, Quaternary ammonium chloride)	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Contains: Methanol, Quaternary ammonium chloride)
Transport hazard class(es)	3 (8) CONTROLLED CONTROLLED	3 (8)	3 (8)	3 (8)
Packing group	III	III	III	III
Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.

Additional information

DOT Classification

: This product is not regulated as a marine pollutant when transported on inland waterways in sizes of ≤5 L or ≤5 kg or by road, rail, or inland air in non-bulk sizes, provided the packagings meet the general provisions of §§ 173.24 and 173.24a. Reportable quantity 2658.5 lbs / 1207 kg [354.28 gal / 1341.1 L]. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.

TDG Classification

: Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3), 2.40-2.42 (Class 8), 2.7 (Marine pollutant mark).

The marine pollutant mark is not required when transported by road or rail.

IMDG

: The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. Emergency schedules F-E S-C

IATA

: The environmentally hazardous substance mark may appear if required by other transportation regulations.

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available.

to IMO instruments

DOT Reportable Quantity

Xylene, 354 gal of this product.

Light aromatic naphtha **Marine pollutant**

1,2,4-Trimethylbenzene

North-America NAERG : 132

Section 15. Regulatory information

U.S. Federal regulations

: TSCA 12(b) one-time export: No products were found.

TSCA 12(b) annual export notification: No products were found.

Inited States inventory (TSCA 8b): All components are active or exempted.

Clean Water Act (CWA) 307: ethylbenzene; naphthalene

Clean Water Act (CWA) 311: xylene; ethylbenzene; naphthalene; hydrogen sulphide

United States - Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs):

List name	Status	Ingredient name	Name on list	Conc.
Mited States - Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	Listed	Xylene	Xylenes	1 - 5
United States - Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	Listed	Methanol	Methanol	1 - 5
United States - Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	Listed	Cumene	Cumene	0.1 - 1
United States - Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	Listed	Ethylbenzene	Ethyl benzene	0.1 - 1
United States - Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	Listed	Naphthalene	Naphthalene	0 - 0.1
United States - Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	Listed	1,4-Dioxane	1,4-Dioxane; 1,4-Diethyleneoxide	0 - 0.1

SARA 302/304

			SARA 302 TPQ		SARA 304 RQ	
Name	%	EHS	(lbs)	(gallons)	(lbs)	(gallons)
Hydrogen sulfide	0 - 0.1	Yes.	500	-	100	-

SARA 311/312

Classification

FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1 CARCINOGENICITY - Category 2

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract

irritation) - Category 3

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -

Category 3

SARA 313

	Product name	CAS number	%
Supplier notification	Xylene Methanol Cumene	1330-20-7 67-56-1 98-82-8	20 - 30 1 - 5 1 - 5 0.1 - 1 0.1 - 1

California Prop. 65



⚠ WARNING: This product can expose you to chemicals including cumene, ethylbenzene, naphthalene and 1,4-Dioxane, which are known to the State of California to cause cancer, and methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca. gov.

Canada

Canada (CEPA DSL): : All components are listed or exempted.

Section 16. Other information

National Fire Protection Association (U.S.A.)



History

Date of printing : 1/12/2023

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

NOTE: The information on this SDS is based on data which is considered to be accurate. Baker Hughes, however, makes no guarantees or warranty, either expressed or implied of the accuracy or completeness of this information.

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