

POLYCARE HEAT THERAPY

Revision Date 02/28/2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

- Trade name POLYCARE HEAT THERAPY

1.2 Relevant identified uses of the substance or mixture and uses advised against**Uses of the Substance / Mixture**

- Thickener for cosmetic formulations

Remarks

- This product may rapidly contribute towards a highly hazardous environment within a confined space (e.g. Within ISO tanks, reactors, silos, etc.).
- Risk assessments should be conducted prior to handling this product / material

1.3 Details of the supplier of the safety data sheet**Company**

Solvay USA LLC.,
504 CARNEGIE CENTER PRINCETON NJ 08540, USA
Tel. : +1 609 860 4000

1.4 Emergency telephone

FOR EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CONTACT CHEMTREC (24-Hour Number): +1-800-424-9300 within the United States and Canada, or +1-703-527-3887 for international collect calls.

SECTION 2: Hazards identification

Although OSHA has not adopted the environmental portion of the GHS regulations, this document may include information on environmental effects.

2.1 Classification of the substance or mixture**HCS 2012 (29 CFR 1910.1200)**

Combustible dust

May form combustible dust concentrations in air.

2.2 Label elements**HCS 2012 (29 CFR 1910.1200)****Signal Word**

- Warning

Hazard Statements

- May form combustible dust concentrations in air.

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2.3 Other hazards which do not result in classification

- Potential dust explosion hazard.
- Finely divided particles may form explosive mixtures in air.
- Dust suspended in air may ignite with static discharge, sparks or flame.
- Electrostatic charges may be generated as a result of flow, stirring etc.
- Electrostatic charges may build up by swirling, pneumatic transport, pouring etc.
- Exposure to dust generated during the handling or use of the product may cause temporary mechanical irritation to the eyes, skin and respiratory tract.

SECTION 3: Composition/information on ingredients

3.1 Substance

Hazardous Ingredients and Impurities

Chemical name	Identification number CAS-No.	Concentration [%]
Guar gum, 2-hydroxypropyl 2-hydroxy-3-(trimethylammonio)propyl ether, chloride	71329-50-5	>= 85 - <= 95

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

3.2 Mixture

- Not applicable, this product is a substance.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice

- Show this material safety data sheet to the doctor in attendance.
- When symptoms persist or in all cases of doubt seek medical advice.
- First responder needs to protect himself.
- Rescuers should wear PPE during rescue and decontamination of victims.

In case of inhalation

- Move to fresh air.
- Keep at rest.
- Consult a physician if necessary.

In case of skin contact

- Take off contaminated clothing and shoes immediately.
- Wash off immediately with soap and plenty of water.
- Use a mild soap if available.
- Get medical attention immediately if symptoms occur.

In case of eye contact

- Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
- If eye irritation persists, consult a physician.

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In case of ingestion

- Do not induce vomiting without medical advice.
- Rinse mouth with water.
- Do not give anything to drink.
- Keep at rest.
- Consult a physician if necessary.

4.2 Most important symptoms and effects, both acute and delayed

- no data available

4.3 Indication of any immediate medical attention and special treatment needed**Notes to physician**

- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

SECTION 5: Firefighting measures

<u>Flash point</u>	> 212 °F (> 100 °C)
	Flammability class: Will burn
<u>Autoignition temperature</u>	No data available
<u>Flammability / Explosive limit</u>	No data available

5.1 Extinguishing media**Suitable extinguishing media**

- Extinguishing media - small fires
- Multipurpose powders
- Water mist
- Alcohol-Resistant Fluorine Free Foams
- Extinguishing media - large fires
- Water mist
- Alcohol-Resistant Fluorine Free Foams

Unsuitable extinguishing media

- Do not use a solid water stream as it may scatter and spread fire.
- High pressure inert gas, e.g. carbon dioxide jet.
- (Avoid dispersal of dust in the air)

5.2 Special hazards arising from the substance or mixture**Specific hazards during fire fighting**

- The pressure in sealed containers can increase under the influence of heat.
- Hazardous decomposition products formed under fire conditions.
- High concentrations of toxic or harmful products may remain in the residual liquid once the fire has been extinguished.
- Risk of dust explosion.
- Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition

source is a potential dust explosion hazard.

Hazardous combustion products:

- Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).
- Nitrogen oxides (NOx)
- Chlorinated compounds

5.3 Advice for firefighters**Special protective equipment for fire-fighters**

- Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.
- Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing

Specific fire fighting methods

- Stay upwind.
- Do not use a solid water stream as it may scatter and spread fire.
- Cool down the containers / equipment exposed to heat with a water spray. Ensure that there is NO direct contact between the water and the product.
- Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Fight fire remotely due to the risk of explosion.

Further information

- Evacuate personnel to safe areas.
- Intervention only by capable personnel who are trained and aware of the hazards of the product.
- Never approach containers which have been exposed to fire, without cooling them sufficiently.
- Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
- Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Avoid dust formation.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

- Avoid inhalation, ingestion and contact with skin and eyes.
- Wear chemical resistant personal protective equipment
- Wear suitable gloves.
- Wear suitable protective clothing.
- Wear as appropriate:
 - Faceshield or an appropriate full face protection.
 - Tightly fitting safety goggles
 - Complete suit protecting against chemicals
- In the case of dust or aerosol formation use respirator with an approved filter.
- In the case of vapor formation use a respirator with an approved filter.
- Stop leak if safe to do so.
- For further information refer to section 8 "Exposure controls / personal protection."
- Wear respiratory protection.

- Eliminate all ignition sources if safe to do so.

6.2 Environmental precautions

- Prevent further leakage or spillage if safe to do so.
- Contain the spilled material by diking.
- The product should not be allowed to enter drains, water courses or the soil.
- Spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies

6.3 Methods and materials for containment and cleaning up

- Stop leak if safe to do so.
- Dam up with sand or inert earth (do not use combustible materials).
- Shovel or sweep up.
- Keep in suitable, closed containers for disposal.
- Never return spills in original containers for re-use.
- Wash nonrecoverable remainder with large amounts of water.
- Clean contaminated surface thoroughly.
- Recover the cleaning water for subsequent disposal.
- Decontaminate tools, equipment and personal protective equipment in a segregated area.
- Dispose of in accordance with local regulations.
- No sparking tools should be used.
- Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).

Additional advice

- No conditions to be specially mentioned.

6.4 Reference to other sections

- 7. HANDLING AND STORAGE
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 13. DISPOSAL CONSIDERATIONS

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Handle in accordance with good industrial hygiene and safety practice.
- Risk assessments, along with appropriate identification and implementation of the corresponding risk controls, are to be conducted by competent person(s) on the intended work processes involving this product.
- Advice on safe handling
- Wear personal protective equipment.
- Wear suitable protective clothing.
- Avoid inhalation, ingestion and contact with skin and eyes.
- For personal protection see section 8.

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- This product may rapidly contribute towards a highly hazardous environment within a confined space (e.g. Within ISO tanks, reactors, silos, etc.).
- The product must only be handled by specifically trained employees.
- Provide sufficient air exchange and/or exhaust in work rooms.
- Vapor extraction at source
- Do not use in areas without adequate ventilation.
- Extracted air must not be allowed to return to the workplace.
- The product should only be used in areas from which all naked lights and other sources of ignition have been excluded.
- Use explosion-proof electrical/ ventilating/ lighting/ equipment.
- Take precautionary measures against static discharges.
- Ground/bond container and receiving equipment.
- Ensure all equipment is electrically grounded before beginning transfer operations.
- Use only non-sparking tools.
- Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.
- Provide for appropriate exhaust ventilation and dust collection at machinery.
- Dust must be extracted directly at the point of origin.
- Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).
- May cause mechanical irritation of the eyes, skin, nose and throat.

Hygiene measures

- Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this materials:
- 1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
- 2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
- 3) Wash exposed skin promptly to remove accidental splashes or contact with material.
- The user is responsible for monitoring the working environment in accordance with local laws and regulations.
- The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.
- Air sampling and / or biological monitoring of the substances shown in Section 8.1 are to be conducted using methods accepted by local competent authorities responsible for workplace safety and health.

7.2 Conditions for safe storage, including any incompatibilities

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Technical measures/Storage conditions

- Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.
- Keep containers tightly closed in a dry, cool and well-ventilated place.
- Keep away from open flames, hot surfaces and sources of ignition.
- Keep away from incompatible materials to be indicated by the manufacturer
- Take appropriate measures to prevent static discharges, which may include thorough electrical interconnecting, grounding of equipment, and/or conveyance under inert gas.
- Keep away from: Hazardous reactions may occur on contact with certain chemicals. (Refer to the list of incompatible materials section 10: "Stability-Reactivity").

Packaging material**Suitable material**

- Plastic materials.
- Coated steels.
- Stainless steel

7.3 Specific end use(s)

- no data available

SECTION 8: Exposure controls/personal protection

Introductory Remarks: These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.

8.1 Control parameters**Components with workplace occupational exposure limits**

Components	Value type	Value	Basis
Particulates not otherwise regulated	PEL	15 mg/m3	Occupational Safety and Health Administration - Table Z-1 Limits for Air Contaminants
		Form of exposure : Total dust	
Particulates not otherwise regulated	PEL	5 mg/m3	Occupational Safety and Health Administration - Table Z-1 Limits for Air Contaminants
		Form of exposure : Respirable fraction	

8.2 Exposure controls

Control measures

Engineering measures

- Risk assessments, along with appropriate identification and implementation of the corresponding risk controls, are to be conducted by competent person(s) on the intended work processes involving this product.
- Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures :
 - Facilities and equipment easily cleanable.
 - Effective exhaust ventilation system
 - Extract at emission point.
 - Ensure adequate ventilation.
 - Ensure that extracted air cannot be returned to the workplace through the ventilation system.
- Dust must be extracted directly at the point of origin.
- Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).

Individual protection measures

Respiratory protection

- This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation.
- When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial recommendations.
- Respirator must be worn if exposed to dust.
- Recommended Filter type: Particulates type

Hand protection

- Where there is a risk of contact with hands, use appropriate gloves
- Gloves must be inspected prior to use.
- Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
- Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Suitable material

- Nitrile rubber
- Neoprene
- butyl-rubber
- PVC

Eye protection

- Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material.
- Eye contact should be prevented through the use of:
 - Tightly fitting safety goggles
 - Faceshield or an appropriate full face protection.

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Skin and body protection

- Lightweight protective clothing
- Footwear protecting against chemicals
- Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Wear fire resistant and antistatic coveralls
- Workers should wear antistatic footwear.

Hygiene measures

- Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this materials:
 - 1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
 - 2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
 - 3) Wash exposed skin promptly to remove accidental splashes or contact with material.
- The user is responsible for monitoring the working environment in accordance with local laws and regulations.
- The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.
- Air sampling and / or biological monitoring of the substances shown in Section 8.1 are to be conducted using methods accepted by local competent authorities responsible for workplace safety and health.

Protective measures

- Emergency equipment immediately accessible, with instructions for use.
- Ensure that eyewash stations and safety showers are close to the workstation location.
- Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the potential hazards, and/or risks that may occur during use.
- The protective equipment must be selected in accordance with current local regulations and in cooperation with the supplier of the protective equipment.

SECTION 9: Physical and chemical properties

Physical and Chemical properties here represent typical properties of this product. Contact the business area using the Product information phone number in Section 1 for its exact specifications.

9.1 Information on basic physical and chemical properties

<u>Physical state</u>	solid
<u>Form</u>	Fine powder
<u>Color</u>	beige
<u>Odor</u>	No data available
<u>Odor Threshold</u>	No data available
<u>Melting point/freezing point</u>	<u>Melting point/freezing point</u> : 338 °F (170 °C) Decomposition: yes
<u>Initial boiling point and boiling range</u>	No data available
<u>Flammability (solid, gas)</u>	May form combustible dust concentrations in air.

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<u>Flammability (liquids)</u>	No data available
<u>Flammability / Explosive limit</u>	No data available
<u>Flash point</u>	> 212 °F (> 100 °C) Flammability class: Will burn
<u>Autoignition temperature</u>	No data available
<u>Decomposition temperature</u>	No data available
<u>pH</u>	8.5 - 10.5 (1 %)
<u>Viscosity</u>	No data available
<u>Solubility</u>	<u>Water solubility:</u> soluble
<u>Partition coefficient: n-octanol/water</u>	No data available
<u>Vapor pressure</u>	No data available
<u>Density</u>	0.7 g/cm ³ (68 °F (20 °C))
<u>Relative density</u>	No data available
<u>Relative vapor density</u>	No data available
<u>Particle characteristics</u>	No data available
<u>Evaporation rate (Butylacetate = 1)</u>	No data available

9.2 Other informationNo data available**SECTION 10: Stability and reactivity****10.1 Reactivity**

- Stable at normal ambient temperature and pressure.

10.2 Chemical stability

- Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

- Under certain conditions, small dust-particles from the product may form flammable and explosive mixtures with the air.

10.4 Conditions to avoid

- Keep away from open flames, hot surfaces and sources of ignition.
- Avoid excessive heat for prolonged periods of time.
- Avoid dust formation.
- Prevent the build-up of electrostatic charge.

10.5 Incompatible materials

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- Strong oxidizing agents.
- hot strong concentrated acids.
- Strong bases

10.6 Hazardous decomposition products

- Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).
- Nitrogen oxides (NOx)
- Chlorinated compounds

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity****Acute oral toxicity**

Guar gum, 2-hydroxypropyl 2-hydroxy-3-(trimethylammonio)propyl ether, chloride
 LD50 : > 2,000 mg/kg - Rat , male and female
 Method: OECD Test Guideline 401
 The product has a low acute toxicity
 Unpublished internal reports

Acute inhalation toxicity

Guar gum, 2-hydroxypropyl 2-hydroxy-3-(trimethylammonio)propyl ether, chloride
 No data available

Acute dermal toxicity

Guar gum, 2-hydroxypropyl 2-hydroxy-3-(trimethylammonio)propyl ether, chloride
 By analogy

Not classified as hazardous for acute dermal toxicity according to GHS.

Acute toxicity (other routes of administration)

Guar gum, 2-hydroxypropyl 2-hydroxy-3-(trimethylammonio)propyl ether, chloride
 No data available

Skin corrosion/irritation

Guar gum, 2-hydroxypropyl 2-hydroxy-3-(trimethylammonio)propyl ether, chloride
 Rabbit
 Not classified as irritating to skin
 Method: OECD Test Guideline 404
 Unpublished internal reports

Serious eye damage/eye irritation

Guar gum, 2-hydroxypropyl 2-hydroxy-3-(trimethylammonio)propyl ether, chloride
 Rabbit
 Not classified as irritating to eyes
 Method: OECD Test Guideline 405
 Unpublished internal reports

Respiratory or skin sensitization

Guar gum, 2-hydroxypropyl 2-hydroxy-3-(trimethylammonio)propyl ether, chloride
 Maximization Test - Guinea pig
 Does not cause skin sensitization.
 Method: OECD Test Guideline 406
 Unpublished internal reports

Mutagenicity**Genotoxicity in vitro**

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Guar gum, 2-hydroxypropyl 2-hydroxy-3-(trimethylammonio)propyl ether, chloride

Mutagenicity (Salmonella typhimurium - reverse mutation assay) with and without metabolic activation

negative
Method: OECD Test Guideline 471
Unpublished internal reports

Genotoxicity in vivo

Guar gum, 2-hydroxypropyl 2-hydroxy-3-(trimethylammonio)propyl ether, chloride

No data available

Carcinogenicity

Guar gum, 2-hydroxypropyl 2-hydroxy-3-(trimethylammonio)propyl ether, chloride

No data available

This product does not contain any ingredient designated as probable or suspected human carcinogens by:

NTP
IARC
OSHA

Toxicity for reproduction and development**Toxicity to reproduction / fertility**

Guar gum, 2-hydroxypropyl 2-hydroxy-3-(trimethylammonio)propyl ether, chloride

No data available

Developmental Toxicity/Teratogenicity

Guar gum, 2-hydroxypropyl 2-hydroxy-3-(trimethylammonio)propyl ether, chloride

No data available

STOT**STOT-single exposure**

Guar gum, 2-hydroxypropyl 2-hydroxy-3-(trimethylammonio)propyl ether, chloride

Routes of exposure: Ingestion
The substance or mixture is not classified as specific target organ toxicant, single exposure according to GHS criteria.
internal evaluation

STOT-repeated exposure

No data available

Experience with human exposure

No data available

Aspiration toxicity

No data available

SECTION 12: Ecological information**12.1 Toxicity****Aquatic Compartment****Acute toxicity to fish**

Guar gum, 2-hydroxypropyl 2-hydroxy-3-(trimethylammonio)propyl ether, chloride

semi-static test

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mortality

LC50 - 96 h : > 100 mg/l - Oncorhynchus mykiss (rainbow trout)
 Analytical monitoring: no

Method: Directive 67/548/EEC, Annex V, C.1.
 Freshwater species
 Highest concentration tested
 Unpublished internal reports
 Not harmful to fish (LC/LL50 > 100 mg/L)

Acute toxicity to daphnia and other aquatic invertebrates

Guar gum, 2-hydroxypropyl 2-hydroxy-3-(trimethylammonio)propyl ether, chloride

static test

Immobilization

EC50 - 48 h : 282 mg/l - Daphnie: Daphnia carinata
 Analytical monitoring: no
 Method: according to a standardized method
 Freshwater species
 Unpublished internal reports
 Not harmful to aquatic invertebrates. (EC/EL50 > 100 mg/L)

Toxicity to aquatic plants

Guar gum, 2-hydroxypropyl 2-hydroxy-3-(trimethylammonio)propyl ether, chloride

EC50 - 96 h : > 1,000 mg/l - Selenastrum capricornutum (green algae)
 static test
 Endpoint: Growth rate
 Method: according to a standardized method
 Freshwater species
 Highest concentration tested
 Unpublished internal reports
 Not harmful to algae (EC/EL50 > 100 mg/L)

NOEC - 96 h : 1,000 mg/l - Selenastrum capricornutum (green algae)
 static test
 Endpoint: Growth rate
 Method: according to a standardized method
 Freshwater species
 Highest concentration tested
 Unpublished internal reports
 No adverse chronic effect observed up to and including the threshold of 1 mg / L.

Toxicity to microorganisms

No data available

Chronic toxicity to fish

Guar gum, 2-hydroxypropyl 2-hydroxy-3-(trimethylammonio)propyl ether, chloride

No data available

Chronic toxicity to daphnia and other aquatic invertebrates

Guar gum, 2-hydroxypropyl 2-hydroxy-3-(trimethylammonio)propyl ether, chloride

No data available

12.2 Persistence and degradability

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Abiotic degradation

No data available

Physical- and photo-chemical elimination

No data available

Biodegradation**Biodegradability**

Guar gum, 2-hydroxypropyl 2-hydroxy-3-(trimethylammonio)propyl ether, chloride

Ready biodegradability study:

aerobic

Method: OECD Test Guideline 301 D

5 % - 28 Days

The substance does not fulfill the criteria for ready biodegradability and ultimate aerobic biodegradability

Theoretical oxygen demand

Inoculum: activated sludge

Unpublished internal reports

Inherent biodegradability study - aerobic

Method: OECD Test Guideline 302 B

0 % - 28 Days

The substance does not fulfill the criteria for inherent biodegradability

Theoretical carbon dioxide production

Inoculum: activated sludge

Unpublished internal reports

Degradability assessment

Guar gum, 2-hydroxypropyl 2-hydroxy-3-(trimethylammonio)propyl ether, chloride

The product is not considered to be rapidly degradable in the environment

12.3 Bioaccumulative potential**Partition coefficient: n-octanol/water**

No data available

Bioconcentration factor (BCF)

Guar gum, 2-hydroxypropyl 2-hydroxy-3-(trimethylammonio)propyl ether, chloride

Not potentially bioaccumulable
Expert judgment**12.4 Mobility in soil****Adsorption potential (Koc)**

No data available

Known distribution to environmental compartments

No data available

12.5 Results of PBT and vPvB assessment

Guar gum, 2-hydroxypropyl 2-hydroxy-3-(trimethylammonio)propyl ether, chloride

This substance is not considered to be persistent, bioaccumulating, and toxic (PBT).

This substance is not considered to be very persistent and very bioaccumulating (vPvB).

12.6 Other adverse effects**Ecotoxicity assessment**

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Short-term (acute) aquatic hazard

Guar gum, 2-hydroxypropyl 2-hydroxy-3-(trimethylammonio)propyl ether, chloride

Not harmful to aquatic life (LC/LL50, EC/EL50 > 100 mg/L)

Long-term (chronic) aquatic hazard

Guar gum, 2-hydroxypropyl 2-hydroxy-3-(trimethylammonio)propyl ether, chloride

No adverse chronic effect observed up to and including the threshold of 1 mg / L.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Product Disposal**

- Dispose of in accordance with local regulations.
- Chemical additions, processing or otherwise altering this material may make the waste management information presented in this SDS incomplete, inaccurate or otherwise inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material.

Prohibition

- Do not discharge directly into the environment.

Waste Code

- Environmental Protection Agency
- Hazardous Waste – NO

Advice on cleaning and disposal of packaging

- Empty remaining contents.
- Clean using steam.
- Monitor the residual vapors.
- Dispose of rinse water in accordance with local and national regulations.
- Containers that cannot be cleaned must be treated as waste.
- Dispose of contents/ container to an approved waste disposal plant.
- Dispose of in accordance with local regulations.
- Where possible recycling is preferred to disposal or incineration.
- The recycled material must be completely dry and free of pollutants.

Prohibition

- Do NOT dispose of untreated packaging with industrial waste.
- Do not dispose of with domestic refuse.

SECTION 14: Transport information**49 CFR**

not regulated

TDG

not regulated

NOM

PRCO90101587

Version : 3.02 / US (Z8)

www.syensqo.com



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not regulated

IMDG

not regulated

IATA

not regulated

Note: The above regulatory prescriptions are those valid on the date of publication of this sheet. Given the possible evolution of transportation regulations for hazardous materials, it would be advisable to check their validity with your sales office.

SECTION 15: Regulatory information**15.1 Notification status**

Inventory Information	Status
United States TSCA Inventory	- All substances listed as active on the TSCA inventory
Canadian Domestic Substances List (DSL)	- One or more components not listed on inventory
Australian Inventory of Industrial Chemicals (AIIC)	- All components are listed on the inventory, regulatory obligations/restrictions apply
Japan. CSCL - Inventory of Existing and New Chemical Substances	- One or more components not listed on inventory
Korea. Korean Existing Chemicals Inventory (KECI)	- One or more components not listed on inventory
China. Inventory of Existing Chemical Substances in China (IECSC)	- Listed on Inventory
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	- Listed on Inventory
Taiwan Chemical Substance Inventory (TCSI)	- Listed on Inventory
New Zealand. Inventory of Chemical Substances	- All components are listed on the NZIoC inventory. Additional HSNO obligations may apply. Please refer to Section 15 of SDS for New Zealand.
EU. European Registration, Evaluation, Authorization and Restriction of Chemical (REACH)	- When purchased from a Syensqo legal entity based in the EEA ("European Economic Area"), this product is compliant with the registration provisions of the REACH Regulation (EC) No. 1907/2006 as all its components are either excluded, exempt, and/or registered. When purchased from a legal entity outside of the EEA, please contact your local representative for additional information.

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Korea. Act on Registration and Evaluation of Chemicals	- When purchased from a Syensqo legal entity based in Korea, this product is compliant with "Act on Registration and Evaluation of Chemicals" (AREC or K-REACH, Article 10) as all its components are either excluded, exempt, and/or (pre)registered. When purchased from a legal entity outside of Korea, please contact your local representative for additional information.
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15.2 Federal Regulations

US. EPA EPCRA SARA Title III**SARA HAZARD DESIGNATION SECTIONS 311/312 (40 CFR 370)**

Combustible dust	Yes
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The categories not mentioned are not relevant for the product.

Section 313 Toxic Chemicals (40 CFR 372.65)

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Section 302 Emergency Planning Extremely Hazardous Substance Threshold Planning Quantity (40 CFR 355)

This material does not contain any components with a section 302 EHS TPQ.

Section 302 Emergency Planning Extremely Hazardous Substance Reportable Quantity (40 CFR 355)

Components	CAS-No.	Reportable quantity
Oxirane, 2-methyl-	75-56-9	100 lb

Section 304 Emergency Release Notification Reportable Quantity (40 CFR 355)

Components	CAS-No.	Reportable quantity
Oxirane, 2-methyl-	75-56-9	100 lb

US. EPA CERCLA Hazardous Substances and Reportable Quantities (40 CFR 302.4)

Components	CAS-No.	Reportable quantity
Oxirane, 2-methyl-	75-56-9	100 lb

15.3 State Regulations

US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)

This product can expose you to chemicals including Oxirane, 2-methyl- (CAS # 75-56-9) , which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

SECTION 16: Other information

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NFPA (National Fire Protection Association) - Classification

Health	1 slight
Flammability	1 slight
Instability or Reactivity	0 minimal

HMIS (Hazardous Materials Identification System (Paint & Coating)) - Classification

Health	1 slight
Flammability	1 slight
Reactivity	0 minimal
PPE	Determined by User; dependent on local conditions

Further information

- Distribute new edition to clients
- Update
- See section 2
- See section 3

Date Prepared: 02/28/2024**Key or legend to abbreviations and acronyms used in the safety data sheet**

- PEL: Permissible exposure limit (PEL)
- TWA: Time weighted average
- ACGIH: American Conference of Governmental Industrial Hygienists
- OSHA: Occupational Safety and Health Administration
- NTP: National Toxicology Program
- IARC: International Agency for Research on Cancer
- NIOSH: National Institute for Occupational Safety and Health
- ADR: European Agreement on International Carriage of Dangerous Goods by Road.
- ADN: European Agreement on the International Carriage of Dangerous Goods by Inland Waterways.
- RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
- IATA: International Air Transport Association.
- ICAO-TI: Technical Specification for Safe Transport of Dangerous Goods by Air.
- IMDG: International Maritime Dangerous Goods.
- TWA: Time weighted average
- ATE: Estimated value of acute toxicity
- EC: European Community number
- CAS: Chemical Abstracts Service.
- LD50: Substance that causes 50% (half) death in the test animals group (Median Fatal Dose).
- LC50: Substance concentration causing 50% (half) death in the test animals group.
- EC50: Effective Concentration of the substance causing the maximum of 50%.
- PBT: Persistent, Bioaccumulative and Toxic substance.
- vPvB: Very Persistent and Very Bioaccumulative.
- SEA: Classification, labeling, packaging regulation
- DNEL: Derived No Effect Level
- PNEC: Predicted No Effect Concentration
- STOT: Specific Target Organ Toxicity

Not all acronyms listed above are referenced in this SDS.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. Such information is only given as a guidance to help the user handle, use, process, store, transport, dispose, and release the product in satisfactory safety conditions and is not to be considered as a warranty or quality specification. It should be used in conjunction with technical sheets but do not replace them. Thus, the information only relates to the designated specific product and may not be applicable if such product is used in combination with other materials or in any other manufacturing process, unless otherwise specifically indicated. It does not release the user from ensuring he is in conformity with all regulations linked to its activity.

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