

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## GLUTEX SHIELD

Version	Revision Date:	SDS Number:	Date of last issue: 18.04.2024
1.1	25.09.2024	203000023611	Country / Language: GB / 6N (EN)

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name : GLUTEX SHIELD  
Product code : 000000000062649549

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

Use of the Sub-  
stance/Mixture : Disinfectants

#### 1.3 Details of the supplier of the safety data sheet

Company : Antec International Limited  
Windham Road  
CO10 2XD Sudbury / Suffolk  
Chilton Industrial Estate, Great Britain

Responsible Department : +49 221 8885 2288  
infosds@lanxess.com

#### 1.4 Emergency telephone number

Emergency telephone number : For 24/7 multilingual emergency please call  
CHEMTREC EMEA: +44 20 3885 0382 and mention  
CCN1018725.

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)**

Acute toxicity, Category 4	H302: Harmful if swallowed.
Acute toxicity, Category 4	H332: Harmful if inhaled.
Skin corrosion, Sub-category 1B	H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Respiratory sensitisation, Category 1	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Short-term (acute) aquatic hazard, Category 1	H400: Very toxic to aquatic life.

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Long-term (chronic) aquatic hazard, Category 2      H411: Toxic to aquatic life with long lasting effects.

### 2.2 Label elements

**Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)**

Hazard pictograms : 

Signal word : Danger

Hazard statements :  
H302 + H332 Harmful if swallowed or if inhaled.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H400 Very toxic to aquatic life.  
H411 Toxic to aquatic life with long lasting effects.

Supplemental Hazard Statements : EUH071 Corrosive to the respiratory tract.

Precautionary statements :  
**Prevention:**  
P261 Avoid breathing mist or vapours.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.  
P284 Wear respiratory protection.  
**Response:**  
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.  
P305 + P351 + P338 + P310 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/ doctor.  
P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.  
P391 Collect spillage.

Hazardous components which must be listed on the label:  
glutaral

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Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
glutaral	111-30-8 203-856-5 605-022-00-X	Acute Tox. 3; H301 Acute Tox. 2; H330 Skin Corr. 1B; H314 Eye Dam. 1; H318 Resp. Sens. 1; H334 Skin Sens. 1A; H317 STOT SE 3; H335 (Respiratory system) Aquatic Acute 1; H400 Aquatic Chronic 2; H411 EUH071  M-Factor (Acute aquatic toxicity): 1	>= 10 - < 20
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1 270-325-2	Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 1	>= 2.5 - < 3

### Specific Concentration limits (Regulation EC) No 1272/2008)

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Chemical name	CAS-No. EC-No.	Classification	Concentration (%)
glutaral	111-30-8 203-856-5	STOT SE3; H335	0.5 - < 5 %

For explanation of abbreviations see section 16.

Disclaimer: EC numbers starting with 6, 7, 8, or 9 in this document are ECHA List Numbers used for internal reference and do not carry legal significance as typical EC Numbers in Safety Data Sheets.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : Move out of dangerous area.  
Do not leave the victim unattended.  
Call a physician immediately.  
Show this safety data sheet to the doctor in attendance.
- Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.
- If inhaled : Chemical burns must be treated promptly by a physician.  
Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
Loosen tight clothing such as a collar, tie, belt or waistband.  
If breathing is labored, administer oxygen.  
If unconscious, place in recovery position and get medical attention immediately.  
Maintain open airway.  
If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
- In case of skin contact : Chemical burns must be treated promptly by a physician.  
Take off contaminated clothing and shoes immediately.  
If on skin, rinse well with water.  
Continue washing for at least 15 minutes.
- In case of eye contact : Chemical burns must be treated promptly by a physician.  
Small amounts splashed into eyes can cause irreversible tissue damage and blindness.  
Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids.  
Keep eye wide open while rinsing.  
Continue to rinse for at least 10 minutes.  
Remove contact lenses.  
Protect unharmed eye.  
Continue rinsing eyes during transport to hospital.
- If swallowed : Chemical burns must be treated promptly by a physician.  
Do not induce vomiting without medical advice.  
Never give anything by mouth to an unconscious person.  
Rinse mouth with water.

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If unconscious, place in recovery position and get medical attention immediately.  
Maintain open airway.

### 4.2 Most important symptoms and effects, both acute and delayed

Risks : Harmful if swallowed or if inhaled.  
May cause an allergic skin reaction.  
Causes serious eye damage.  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
Corrosive to the respiratory tract.  
Causes severe burns.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Maintain adequate ventilation and oxygenation of the patient.  
May cause respiratory sensitization or asthma-like symptoms. Bronchodilators, expectorants and antitussives may be of help.  
Treat bronchospasm with inhaled beta2 agonist and oral or parenteral corticosteroids.  
Glutaraldehyde may transiently worsen reversible airways obstruction including asthma or reactive airways disease.  
Exposure to vapors may result in skin sensitization. In sensitized individuals, re-exposure to very small amounts of vapor, mist, or liquid may cause a severe allergic skin reaction.  
Chemical eye burns may require extended irrigation. Obtain prompt consultation, preferably from an ophthalmologist.  
If burn is present, treat as any thermal burn, after decontamination.  
Probable mucosal damage may contraindicate the use of gastric lavage.  
There is no specific antidote available.  
Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.  
Have the Safety Data Sheet, and if available, the product container or label with you when calling a poison control center or doctor, or going for treatment.  
Excessive exposure may aggravate preexisting asthma and other respiratory disorders (e.g. emphysema, bronchitis, reactive airways dysfunction syndrome).

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media : High volume water jet

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### 5.2 Special hazards arising from the substance or mixture

- Specific hazards during fire-fighting : In a fire or if heated, a pressure increase will occur and the container may burst.  
Do not allow run-off from fire fighting to enter drains or water courses.  
Very toxic to aquatic life with long lasting effects.
- Hazardous combustion products : Carbon dioxide (CO<sub>2</sub>)  
Carbon monoxide

### 5.3 Advice for firefighters

- Special protective equipment for firefighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
- Further information : 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.  
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.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

- Personal precautions : No action shall be taken involving any personal risk or without suitable training.  
Keep unnecessary and unprotected personnel from entering.  
Do not touch or walk through spilt material.  
Avoid contact with skin and eyes.  
Do not breathe vapours or spray mist.  
Ensure adequate ventilation.  
In case of inadequate ventilation wear respiratory protection.  
Remove all sources of ignition.  
Use personal protective equipment.

### 6.2 Environmental precautions

- Environmental precautions : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.  
Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

### 6.3 Methods and material for containment and cleaning up

- Methods for cleaning up : Move containers from spill area.  
Stop leak if safe to do so.  
Soak up with inert absorbent material (e.g. sand, silica gel,

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acid binder, universal binder, sawdust).  
Dispose of wastes in an approved waste disposal facility.

### 6.4 Reference to other sections

For personal protection see section 8.  
For disposal considerations see section 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Advice on safe handling : Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.  
Avoid release to the environment.  
For personal protection see section 8.  
Avoid contact with skin and eyes.  
Do not breathe vapours or spray mist.  
Provide sufficient air exchange and/or exhaust in work rooms.  
In case of insufficient ventilation, wear suitable respiratory equipment.  
Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use.  
Dispose of rinse water in accordance with local and national regulations.
- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Hygiene measures : General industrial hygiene practice. When using do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Remove contaminated clothing and protective equipment before entering eating areas.

### 7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Store in accordance with local regulations. Store in a segregated and approved area. Do not store in unlabelled containers. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Use appropriate container to avoid environmental contamination. Keep containers sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.
- Further information on storage stability : Stable under recommended storage conditions.

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### 7.3 Specific end use(s)

No data available

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
glutaral	111-30-8	TWA	0.05 ppm 0.2 mg/m <sup>3</sup>	GB EH40
Further information: Capable of causing occupational asthma.				
		STEL	0.05 ppm 0.2 mg/m <sup>3</sup>	GB EH40
Further information: Capable of causing occupational asthma.				

### 8.2 Exposure controls

#### Engineering measures

If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

#### Personal protective equipment

Eye/face protection : Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing problems.  
Eye wash bottle with pure water

Hand protection  
Material : Nitrile rubber - NBR  
Break through time : 480 min  
Glove thickness : 0.6 mm  
Wearing time : < 60 min

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves. After contamination with product change the gloves immediately and dispose of them according to relevant national and local regulations

Skin and body protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.

Filter type : ABEK-filter



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### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Appearance	:	Fluid
Physical state	:	liquid
Colour	:	colourless
Odour	:	slight, Aldehyde-like.
Odour Threshold	:	< 0.01 ppm
Freezing point	:	-3 °C
Boiling point/boiling range	:	100.7 °C Method: OECD Test Guideline 103
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	No data available
Ignition temperature	:	No data available
Decomposition temperature	:	No data available
pH	:	3.1 - 4.5 Concentration: 100 % Method: Calculated.
Viscosity	:	
Viscosity, dynamic	:	3.2 mPa,s (20 °C) Method: (Brookfield Viscosity)
Viscosity, kinematic	:	3.09 cSt (20 °C)
Solubility(ies)	:	
Water solubility	:	(20 °C) Method: EC Method A6 completely soluble
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available

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Vapour pressure	:	0.4 hPa (20 °C) Method: OECD Test Guideline 104
Relative density	:	1.035 Method: Calculated.
Density	:	1.035 g/cm <sup>3</sup> (20 °C)
Relative vapour density	:	0.7 Method: Calculated.

### 9.2 Other information

Explosives	:	No data available
Oxidizing properties	:	No data available
Flammability (liquids)	:	No data available
Self-ignition	:	No data available
Metal corrosion rate	:	No data available
Evaporation rate	:	0.8
Miscibility with water	:	No data available
Surface tension	:	No data available
Molecular weight	:	No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur. Stable under recommended storage conditions.
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### 10.4 Conditions to avoid

Conditions to avoid	:	Heat, flames and sparks. Extremes of temperature and direct sunlight.
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### 10.5 Incompatible materials

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Materials to avoid : Strong acids and strong bases  
Oxidizing agents  
Anionic surfactants

### 10.6 Hazardous decomposition products

No hazardous decomposition products are known.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Harmful if swallowed or if inhaled.

#### Product:

Acute oral toxicity : Acute toxicity estimate: 683.61 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: 2 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: Calculation method

#### Components:

##### **glutaral:**

Acute oral toxicity : LD50 (Rat, male and female): 100 mg/kg  
Method: OECD Test Guideline 401  
GLP: Yes  
Remarks: Active ingredient

Acute inhalation toxicity : LC50 (Rat, female): 0.28 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
GLP: No

LC50 (Rat, male): 0.35 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
GLP: No

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: Yes  
Assessment: The substance or mixture has no acute dermal toxicity

#### **Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides:**

Acute oral toxicity : LD50 (Rat): 398 mg/kg

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Acute dermal toxicity            :    LD50 (Rat): 3,412 mg/kg

### **Skin corrosion/irritation**

Causes severe burns.

#### **Components:**

##### **glutaral:**

Species                                :    Rabbit  
Exposure time                        :    4 h  
Method                                 :    OECD Test Guideline 404  
Result                                 :    Causes burns.  
GLP                                      :    No information available.

### **Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides:**

Result                                 :    Corrosive after 3 minutes to 1 hour of exposure

### **Serious eye damage/eye irritation**

Causes serious eye damage.

#### **Components:**

##### **glutaral:**

Species                                :    Rabbit  
Method                                 :    Draize Test  
Result                                 :    Irreversible effects on the eye  
GLP                                      :    No

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

May cause an allergic skin reaction.

#### **Respiratory sensitisation**

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

#### **Components:**

##### **glutaral:**

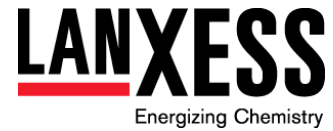
Exposure routes                        :    Inhalation  
Species                                 :    Human  
Result                                 :    May cause sensitisation by inhalation.

Test Type                                :    Open epicutaneous test  
Exposure routes                        :    Skin contact  
Species                                 :    Guinea pig  
Result                                 :    May cause sensitisation by skin contact.

Test Type                                :    Local lymph node assay (LLNA)  
Exposure routes                        :    Skin contact  
Species                                 :    Mouse

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Result : The product is a skin sensitizer, sub-category 1A.

### Germ cell mutagenicity

Not classified based on available information.

### Components:

#### glutaral:

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: positive  
GLP: Yes

Test Type: Chromosome aberration test in vitro  
Test system: Chinese hamster fibroblasts  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: positive  
GLP: Yes

Test Type: In vitro mammalian cell gene mutation test  
Test system: Chinese hamster ovary cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: positive  
GLP: Yes

Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Species: Mouse (male and female)  
Cell type: Bone marrow  
Application Route: Intraperitoneal injection  
Method: OECD Test Guideline 474  
Result: negative  
GLP: Yes

Test Type: unscheduled DNA synthesis assay  
Species: Rat (male)  
Cell type: Liver cells  
Application Route: Oral  
Method: OECD Test Guideline 486  
Result: negative  
GLP: Yes

Test Type: The sex-linked recessive lethal (SLRL) test.  
Species: Drosophila melanogaster (vinegar fly) (male)  
Result: negative

### Carcinogenicity

Not classified based on available information.

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### Components:

#### **glutaral:**

Species : Rat, male and female  
Application Route : Oral  
Exposure time : 2 Years  
Dose : 100 - 500 - 2000 parts per million  
NOAEL : 100 ppm  
Method : OECD Test Guideline 451  
Result : negative  
GLP : Yes

### **Reproductive toxicity**

Not classified based on available information.

### Components:

#### **glutaral:**

Effects on fertility : Test Type: Two-generation study  
Species: Rat, male and female  
Application Route: Oral  
Dose: 100 - 500 - 2000 parts per million  
General Toxicity - Parent: NOAEL: 500 parts per million  
Fertility: NOAEL: 2,000 parts per million  
Early Embryonic Development: NOAEL: 500 ppm  
Method: OECD Test Guideline 416  
Result: Animal testing did not show any effects on fertility.  
GLP: Yes

Effects on foetal development : Test Type: Pre-natal  
Species: Rat, female  
Application Route: Oral  
Dose: 50 - 250 - 750 parts per million  
General Toxicity Maternal: NOEL: 50 ppm  
Teratogenicity: NOAEL: 750 ppm  
Embryo-foetal toxicity: NOAEL: 750 ppm  
Method: OECD Test Guideline 414  
Result: Did not show teratogenic effects in animal experiments.  
GLP: Yes

Test Type: Pre-natal  
Species: Rabbit, female  
Application Route: Oral  
Dose: 5 - 15 - 45 milligram per kilogram  
General Toxicity Maternal: NOAEL: 15 mg/kg body weight  
Teratogenicity: NOAEL: 45 mg/kg body weight  
Embryo-foetal toxicity: NOAEL: 15 mg/kg body weight  
Method: OECD Test Guideline 414  
Result: Embryotoxic effects and adverse effects on the offspring were detected only at high maternally toxic doses  
GLP: Yes

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### STOT - single exposure

Corrosive to the respiratory tract.

#### Product:

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

#### Components:

##### **glutaral:**

Assessment : May cause respiratory irritation.

### STOT - repeated exposure

Not classified based on available information.

### Repeated dose toxicity

#### Components:

##### **glutaral:**

Species : Rat, male and female  
NOAEL : 500 parts per million  
LOAEL : 2000 ppm  
Application Route : Oral  
Exposure time : 90 Days  
Number of exposures : daily  
Dose : 100 - 500 - 2000 parts per million  
Method : OECD Test Guideline 408  
GLP : Yes  
Remarks : Subchronic toxicity

Species : Rat, male and female  
NOAEL : 500 parts per million  
LOAEL : 2000 ppm  
Application Route : Oral  
Exposure time : 12 Months  
Number of exposures : daily  
Dose : 100 - 500 - 2000 parts per million  
Method : OECD Test Guideline 452  
GLP : Yes  
Remarks : Chronic toxicity

Species : Dog, male and female  
NOAEL : 500 parts per million  
Application Route : Oral  
Exposure time : 12 Months  
Number of exposures : daily  
Dose : 20 - 100 - 500 parts per million  
Method : OECD Test Guideline 452  
GLP : Yes  
Remarks : Chronic toxicity

Species : Rat, male and female

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NOAEC :  $\geq 1$  ppm  
Application Route : Inhalation  
Test atmosphere : vapour  
Exposure time : 90 Days  
Number of exposures : 6 hours a day, 5 days a week  
Dose : 0,062 - 0,125 - 0,25 - 0,5 - 1 parts per million  
Method : OECD Test Guideline 413  
GLP : Yes  
Remarks : Subchronic toxicity

### Aspiration toxicity

Not classified based on available information.

### Further information

#### Product:

Remarks : No data available

---

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

##### **glutaral:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 10 mg/l  
Exposure time: 96 h  
Test Type: static test  
Analytical monitoring: No  
Method: OECD Test Guideline 203  
GLP: No  
Remarks: Fresh water  
nominal concentration

LC50 (Lepomis macrochirus (Bluegill sunfish)): 13 mg/l  
Exposure time: 96 h  
Test Type: static test  
Analytical monitoring: No  
Method: OECD Test Guideline 203  
GLP: No  
Remarks: Fresh water  
nominal concentration

LC50 (Cyprinodon variegatus (sheepshead minnow)): 39 mg/l  
Exposure time: 96 h  
Test Type: static test  
Analytical monitoring: No  
GLP: No  
Remarks: salt water  
nominal concentration

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 14.87 mg/l



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aquatic invertebrates

End point: Immobilization  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: No  
Method: Regulation (EC) No. 440/2008, Annex, C.2  
GLP: No  
Remarks: Fresh water  
nominal concentration

EC50 (*Daphnia magna* (Water flea)): 14 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: No  
Method: EPA-660/3-75-009  
GLP: No  
Remarks: Fresh water  
nominal concentration

EC50 (*Acartia tonsa*): 3 mg/l  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: Yes  
Method: ISO 14669 and PARCOM method  
GLP: Yes  
Remarks: salt water  
nominal concentration

Toxicity to algae/aquatic plants

: ErC50 (*Desmodesmus subspicatus* (green algae)): 0.6 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: Yes  
Method: Regulation (EC) No. 440/2008, Annex, C.3  
GLP: Yes  
Remarks: Fresh water  
nominal concentration

NOEC (*Desmodesmus subspicatus* (green algae)): 0.025 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: Yes  
Method: Regulation (EC) No. 440/2008, Annex, C.3  
GLP: Yes  
Remarks: Fresh water  
nominal concentration

M-Factor (Acute aquatic toxicity) : 1

Toxicity to microorganisms : EC20 (activated sludge): 15 mg/l  
End point: Respiration inhibition  
Exposure time: 30 min

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Test Type: static test  
Analytical monitoring: No  
Method: OECD Test Guideline 209  
GLP: Yes

EC50 (activated sludge): 80 mg/l  
End point: Respiration inhibition  
Exposure time: 30 min  
Test Type: static test  
Analytical monitoring: No  
Method: OECD Test Guideline 209  
GLP: Yes

Toxicity to fish (Chronic toxicity) : NOEC: 1.6 mg/l  
End point: Survival test  
Exposure time: 97 d  
Species: *Oncorhynchus mykiss* (rainbow trout)  
Test Type: flow-through test  
Analytical monitoring: Yes  
Method: OECD Test Guideline 210  
GLP: Yes  
Remarks: Fresh water  
nominal concentration

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 5 mg/l  
End point: Reproduction  
Exposure time: 21 d  
Species: *Daphnia magna* (Water flea)  
Test Type: semi-static test  
Analytical monitoring: Yes  
Method: OECD Test Guideline 221  
GLP: Yes  
Remarks: Fresh water  
nominal concentration

Toxicity to soil dwelling organisms : LC50: 170 mg/kg  
Exposure time: 14 d  
End point: Survival  
Species: *Eisenia fetida* (earthworms)  
Method: OECD Test Guideline 207  
GLP: Yes

Plant toxicity : EC50: > 1,000 mg/kg  
End point: Growth inhibition  
Test period: 19 d  
Species: *Avena sativa* (oats)  
Method: OECD Test Guideline 208  
GLP: Yes

EC50: > 1,000 mg/kg  
End point: Growth inhibition  
Test period: 19 d  
Species: *Vicia sativa*  
Method: OECD Test Guideline 208

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GLP: Yes

Toxicity to terrestrial organisms : LD50: 206 mg/kg  
Exposure time: 14 d  
End point: mortality  
Species: Anas platyrhynchos (Mallard duck)

LC50: > 2,500 ppm  
Exposure time: 5 d  
End point: mortality  
Species: Anas platyrhynchos (Mallard duck)

### Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides:

Toxicity to fish : LC50 : 0.515 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 : 0.016 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : NOEC (Pseudokirchneriella subcapitata (microalgae)): 0.009 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) : 10

M-Factor (Chronic aquatic toxicity) : 1

## 12.2 Persistence and degradability

### Components:

#### **glutaral:**

Biodegradability : Result: rapidly biodegradable  
Biodegradation: 90 - 100 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301A  
GLP: Yes

Result: Biodegradable in sea water  
Biodegradation: 90 - 100 %  
Exposure time: 70 d  
Method: OECD Test Guideline 306  
GLP: Yes

Concentration: 20 mg/l  
Result: Biodegradable  
Biodegradation: 97 %  
Related to: Dissolved organic carbon (DOC)  
Exposure time: 73 d  
Lag phase: 1 d

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Beginning of plateau phase: 2 d  
Method: OECD Test Guideline 303A  
GLP: Yes

Stability in water : Remarks: Hydrolyses slowly.

Photodegradation : Sensitiser: OH radicals  
Concentration: 500,000 1/cm<sup>3</sup>  
Rate constant: 4.69E-10 cm<sup>3</sup>/s  
Remarks: Structure-activity relationship (SAR)

### Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides:

Biodegradability : Result: Readily biodegradable.  
Biodegradation: > 70 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D

## 12.3 Bioaccumulative potential

### Components:

#### glutaral:

Bioaccumulation : Remarks: Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.

Partition coefficient: n-octanol/water : log Pow: -0.36 (23 °C)  
pH: 7  
Method: Regulation (EC) No. 440/2008, Annex, A.8  
GLP: Yes

### Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides:

Partition coefficient: n-octanol/water : log Pow: 0.5

## 12.4 Mobility in soil

### Components:

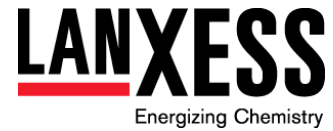
#### glutaral:

Distribution among environmental compartments : log Koc: 2.5

Stability in soil : Test Type: aerobic degradation  
Soil temperature: 25 °C  
Radio label: Yes  
Method: measured  
GLP: Yes  
Remarks: Not expected to adsorb on soil.

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### 12.5 Results of PBT and vPvB assessment

**Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Other adverse effects

**Product:**

Endocrine disrupting potential : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Very toxic to aquatic life with long lasting effects.

---

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : The generation of waste should be avoided or minimised wherever possible.  
Where possible recycling is preferred to disposal or incineration.  
Waste disposal should be in accordance with existing federal state, provincial and or local environmental controls  
Dispose of as hazardous waste in compliance with local and national regulations.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
The product should not be allowed to enter drains, water courses or the soil.  
Dispose of wastes in an approved waste disposal facility.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Empty containers retain residue and can be dangerous.  
Do not re-use empty containers.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.

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## SECTION 14: Transport information

### 14.1 UN number

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**ADN** : UN 3265  
**ADR** : UN 3265  
**RID** : UN 3265  
**IMDG** : UN 3265  
**IATA** : UN 3265

### 14.2 UN proper shipping name

**ADN** : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.  
(GLUTARALDEHYDE, QUATERNARY AMMONIUM  
COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL-,  
CHLORIDES)  
**ADR** : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.  
(GLUTARALDEHYDE, QUATERNARY AMMONIUM  
COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL-,  
CHLORIDES)  
**RID** : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.  
(GLUTARALDEHYDE, QUATERNARY AMMONIUM  
COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL-,  
CHLORIDES)  
**IMDG** : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.  
(GLUTARALDEHYDE, QUATERNARY AMMONIUM  
COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL-,  
CHLORIDES)  
**IATA** : Corrosive liquid, acidic, organic, n.o.s.  
(GLUTARALDEHYDE, QUATERNARY AMMONIUM  
COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL-,  
CHLORIDES)

### 14.3 Transport hazard class(es)

**ADN** : 8  
**ADR** : 8  
**RID** : 8  
**IMDG** : 8  
**IATA** : 8

### 14.4 Packing group

**ADN**  
Packing group : III  
Classification Code : C3  
Hazard Identification Number : 80  
Labels : 8  
:



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### ADR

Packing group : III  
Classification Code : C3  
Hazard Identification Number : 80  
Labels : 8  
:



Tunnel restriction code : (E)

### RID

Packing group : III  
Classification Code : C3  
Hazard Identification Number : 80  
Labels : 8  
:



### IMDG

Packing group : III  
Labels : 8  
:



EmS Code : F-A, S-B

### IATA (Cargo)

Packing instruction (cargo aircraft) : 856 : 60.00 L  
Packing group : III  
Labels : 8  
:



### IATA (Passenger)

Packing instruction (passenger aircraft) : 852 : 5.00 L  
Packing group : III  
Labels : 8  
:



## 14.5 Environmental hazards

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### ADN

Environmentally hazardous : yes



### ADR

Environmentally hazardous : yes



### RID

Environmentally hazardous : yes



### IMDG

Marine pollutant : yes



### IATA (Passenger)

Environmentally hazardous : yes



### IATA (Cargo)

Environmentally hazardous : yes



### 14.6 Special precautions for user

Hazard and Handling Notes. : Slightly corrosive.  
Environmentally hazardous substance.  
Keep away from acids and oxidizing agents.  
Keep away from foodstuffs, acids and alkalis.

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data



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Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Relevant EU provisions transposed through retained EU law

- |   |   |  |
|---|---|--|
| UK REACH List of restrictions (Annex 17)  | : | Conditions of restriction for the following entries should be considered: Number on list 3 |
| UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation   | : | Not applicable   |
| The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain)                                 | : | Not applicable   |
| International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors   | : | Not applicable   |
| Regulation (EC) on substances that deplete the ozone layer  | : | Not applicable   |
| Council Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors. | : | Neither banned nor restricted  |
| UK REACH List of substances subject to authorisation (Annex XIV)  | : | Not applicable   |
| GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation   | : | Not applicable   |

Control of Major Accident Hazards Regulations 2015 (COMAH)

		Quantity 1	Quantity 2
E1	ENVIRONMENTAL HAZARDS	100 t	200 t

#### Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

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### 15.2 Chemical safety assessment

Not applicable

## SECTION 16: Other information

### Full text of H-Statements

H301	: Toxic if swallowed.
H302	: Harmful if swallowed.
H314	: Causes severe skin burns and eye damage.
H317	: May cause an allergic skin reaction.
H318	: Causes serious eye damage.
H330	: Fatal if inhaled.
H334	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	: May cause respiratory irritation.
H400	: Very toxic to aquatic life.
H410	: Very toxic to aquatic life with long lasting effects.
H411	: Toxic to aquatic life with long lasting effects.

### Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Eye Dam.	: Serious eye damage
Resp. Sens.	: Respiratory sensitisation
Skin Corr.	: Skin corrosion
Skin Sens.	: Skin sensitisation
STOT SE	: Specific target organ toxicity - single exposure
GB EH40	: UK. EH40 WEL - Workplace Exposure Limits
GB EH40 / TWA	: Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL	: Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office

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of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Classification of the mixture:

Acute Tox. 4	H302
Acute Tox. 4	H332
Skin Corr. 1B	H314
Eye Dam. 1	H318
Resp. Sens. 1	H334
Skin Sens. 1	H317
Aquatic Acute 1	H400
Aquatic Chronic 2	H411

#### Classification procedure:

Calculation method
Calculation method
Calculation method
Calculation method
Calculation method
Calculation method
Calculation method
Calculation method

The data contained in this Safety Data Sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered to be a guidance for processing and does not contain any warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. It is the responsibility of the recipient of the product to ensure that any proprietary rights and existing laws and legislation are observed.

Relevant changes from the previous version are marked on the left side of the Safety Data Sheet with a black double bar in appropriate places.