

## 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

### Product identifier

**Product name:** GLUTARALDEHYDE 50%

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

**Company name:** Nexchem Ltd  
Unit 3 Barshaw Park  
Leycroft Road  
Leicester  
LE4 1ET  
Tel: 0116 2311130  
24/7 Emergency Tel: 0800 246 1274  
Email: [sales@nexchem.co.uk](mailto:sales@nexchem.co.uk)

## 2. HAZARDS IDENTIFICATION

### Classification of the substance or mixture:

**Classification under CLP:** Acute Tox. 3: H301+331; Aquatic Acute 1: H400; Resp. Sens. 1: H334; Skin Corr. 1B: H314; Skin Sens. 1: H317

**Most important adverse effects:** Toxic if swallowed or if inhaled. Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Very toxic to aquatic life.

### Label elements:

**Hazard statements:** H301+331: Toxic 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.

**Hazard pictograms:** GHS05: Corrosion  
GHS06: Skull and crossbones  
GHS08: Health hazard  
GHS09: Environmental



**Signal words:** Danger

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**Precautionary statements:** P260: Do not breathe dust/fumes/gas/mist/vapours/spray.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P301+310: IF SWALLOWED: Immediately call a.  
P301+330+331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P302+352: IF ON SKIN: Wash with plenty of water/.  
P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing.  
Rinse skin with water/shower.

**Other hazards:**

**PBT:** This product is not identified as a PBT/vPvB substance.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

### Mixtures:

**Hazardous ingredients:** GLUTARALDEHYDE

EINECS	CAS	PBT / WEL	CLP Classification	Percent
203-856-5	111-30-8	-	Acute Tox. 3: H331; Acute Tox. 3: H301; Skin Corr. 1B: H314; Resp. Sens. 1: H334; Skin Sens. 1: H317; Aquatic Acute 1: H400	30-50%

## 4. FIRST AID MEASURES

### Description of first aid measures:

**Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning.

**Eye contact:** Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

**Ingestion:** Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible.

**Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. If conscious, ensure the casualty sits or lies down. If unconscious and breathing is OK, place in the recovery position. If unconscious, check for breathing and apply artificial respiration if necessary. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.

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

**Skin contact:** There may be redness or whiteness of the skin in the area of exposure. Irritation or pain may occur at the site of contact. Absorption through the skin may be fatal.

**Eye contact:** There may be severe pain. The eyes may water profusely.

**Ingestion:** There may be soreness and redness of the mouth and throat. There may be vomiting. Convulsions may occur. There may be loss of consciousness.

[cont...]

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**Inhalation:** There may be shortness of breath with a burning sensation in the throat. Absorption through the lungs can occur causing symptoms similar to those of ingestion. Convulsions may occur. There may be loss of consciousness.

**Delayed/immediate effects:** Immediate effects can be expected after short-term exposure.

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

**Immediate/special treatment:** Immediate medical attention is required. Show this safety data sheet to the doctor in attendance. Eye bathing equipment should be available on the premises.

## 5. FIRE-FIGHTING MEASURES

**Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

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

**Exposure hazards:** Toxic. In combustion emits toxic fumes.

**Advice for fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

## 6. ACCIDENTAL RELEASE MEASURES

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

**Personal precautions:** Notify the police and fire brigade immediately. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid.

**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.

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

**Clean-up procedures:** Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

**Reference to other sections:** Refer to section 8 of SDS.

## 7. HANDLING AND STORAGE

### Precautions for safe handling:

**Handling requirements:** Avoid direct contact with the substance. Ensure there is exhaust ventilation of the area. Avoid the formation or spread of mists in the air.

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

**Storage conditions:** Store in a cool, well ventilated area. Keep container tightly closed.

[cont...]

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**Specific end use(s):** No data available.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control parameters:

**Hazardous ingredients:** GLUTARALDEHYDE

**Workplace exposure limits:** Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	0.2 mg/m3	0.2 mg/m3	-	-

### DNEL/PNEC Values

**DNEL / PNEC:** No data available.

### Exposure controls:

**Engineering measures:** Ensure there is exhaust ventilation of the area.

**Respiratory protection:** Self-contained breathing apparatus must be available in case of emergency.

**Hand protection:** Impermeable gloves.

**Eye protection:** Safety glasses with side-shields. Ensure eye bath is to hand.

**Skin protection:** Impermeable protective clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties:

<b>State:</b>	Liquid	
<b>Colour:</b>	Colourless to Pale Yellow	
<b>Odour:</b>	Pungent	
<b>Evaporation rate:</b>	No data available.	
<b>Oxidising:</b>	No data available.	
<b>Solubility in water:</b>	Soluble	
<b>Viscosity:</b>	No data available.	
<b>Boiling point/range°C:</b>	No data available.	<b>Melting point/range°C:</b> No data available.
<b>Flammability limits %: lower:</b>	No data available.	<b>upper:</b> No data available.
<b>Flash point°C:</b>	No data available.	<b>Part.coeff. n-octanol/water:</b> No data available.
<b>Autoflammability°C:</b>	No data available.	<b>Vapour pressure:</b> No data available.
<b>Relative density:</b>	1.126 - 1.135	<b>pH:</b> 3 - 4.5
<b>VOC g/l:</b>	No data available.	
<b>Other information:</b>	No data available.	

## 10. STABILITY AND REACTIVITY

**Reactivity:** Stable under recommended transport or storage conditions.

**Chemical stability:** Stable under normal conditions.

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### Possibility of hazardous reactions:

**Hazardous reactions:** Hazardous reactions will not occur under normal transport or storage conditions.  
Decomposition may occur on exposure to conditions or materials listed below.

**Conditions to avoid:** Heat. Hot surfaces. Flames.

### Incompatible materials

**Materials to avoid:** Strong oxidising agents. Strong acids.

### Hazardous decomposition products:

**Haz. decomp. products:** In combustion emits toxic fumes.

## 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects:

<b>Hazardous ingredients:</b>		GLUTARALDEHYDE		
ORL	MUS	LD50	100	mg/kg
ORL	RAT	LD50	134	mg/kg
SCU	RAT	LD50	>750	mg/kg
SKN	RAT	LD50	>2500	mg/kg

### Relevant hazards for product:

Hazard	Route	Basis
Acute toxicity (ac. tox. 3)	INH ING	Hazardous: calculated
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated
Respiratory/skin sensitisation	INH DRM	Hazardous: calculated

### Symptoms / routes of exposure:

**Skin contact:** There may be redness or whiteness of the skin in the area of exposure. Irritation or pain may occur at the site of contact. Absorption through the skin may be fatal.

**Eye contact:** There may be severe pain. The eyes may water profusely.

**Ingestion:** There may be soreness and redness of the mouth and throat. There may be vomiting.  
Convulsions may occur. There may be loss of consciousness.

**Inhalation:** There may be shortness of breath with a burning sensation in the throat. Absorption through the lungs can occur causing symptoms similar to those of ingestion. Convulsions may occur.  
There may be loss of consciousness.

**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

## 12. ECOLOGICAL INFORMATION

### Toxicity:

**Ecotoxicity values:** No data available.

**Persistence and degradability:** Biodegradable.

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**Bioaccumulative potential:** No bioaccumulation potential.

**Mobility in soil:**

**Mobility:** Readily absorbed into soil.

**Results of PBT and vPvB assessment:**

**PBT identification:** This product is not identified as a PBT/vPvB substance.

**Other adverse effects:** Negligible ecotoxicity.

### 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods:**

**Disposal operations:** Transfer to a suitable container and arrange for collection by specialised disposal company.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

### 14. TRANSPORT INFORMATION

**UN number:** UN2922

**UN proper shipping name:**

**Shipping name:** CORROSIVE LIQUID, TOXIC, N.O.S. (GLUTARALDEHYDE)

**Transport hazard class(es):**

**Transport class:** 8 (6.1)

**Packing group:** II

**Environmentally hazardous:** Yes

**Marine pollutant:** Yes

**Special precautions for user:**

**Special precautions:** No special precautions.

**Tunnel code:** E

**Transport category:** 2

### 15. REGULATORY INFORMATION

**Chemical safety assessment:** A chemical safety assessment has not been carried out for the substance or the mixture by the supplier

**Note:** The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions. [cont...]

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### 16. OTHER INFORMATION

**Other information:** This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

\* indicates text in the SDS which has changed since the last revision.

This product is not BPR approved.

**Phrases used in s.2 and s.3:** H301: Toxic if swallowed.  
H301+331: Toxic if swallowed or if inhaled.  
H314: Causes severe skin burns and eye damage.  
H317: May cause an allergic skin reaction.  
H331: Toxic if inhaled.  
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H400: Very toxic to aquatic life.

**Legal disclaimer:** The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.