

Safety Data Sheet

#90005257 · Full 16-section SDS

According to Regulation (EC) No 1907/2006

According to Regulation (EC) No 2020/878

PRODUCT	CAS NUMBER	FORMULA	VERSION	REVISION DATE
Glutaraldehyde 50% aq soln	111-30-8	C5H8O2	10	19 Aug 2026

SECTION 1

Identification

Product name	Glutaraldehyde 50% aq soln
CAS number	111-30-8
Chemical formula	C5H8O2
Molecular weight	100.12
SMILES	<chem>C(CC=O)CC=O</chem>
EC / EINECS number	203-856-5
Recommended use & restrictions	For research and development purposes, laboratory chemicals and manufacture of substances. Not suitable for human consumption or veterinary purposes.
Emergency telephone	0344 892 0111 — National Poisons Information Service (NPIS) (United Kingdom — for healthcare professionals (via TOXBASE))

SECTION 2

Hazard identification

**DANGER**

CODE	HAZARD STATEMENT
EUH071	Corrosive to the respiratory tract
H301	Toxic if swallowed
H314 (sub cat. 1B)	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
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
H411	Toxic to aquatic life with long lasting effects
CODE	PRECAUTIONARY STATEMENT
P260	Do not breathe dust/fume/gas/mist/vapours/spray
P273	Avoid release to the environment
P280	Wear protective gloves/protective clothing/eye protection/face protection
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P302+P352	IF ON SKIN: Wash with soap and water
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do, continue rinsing
Other hazards (e.g. PBT / vPvB, not classified)	This product does not contain any substances classified as PBT or vPvB. Does not contain components considered to have endocrine-disrupting properties

SECTION 3

Composition / information on ingredients

Purity / concentration	c. 50% Glutaraldehyde (CAS: 111-30-8)- EUH071, H301+H311, H314b, H317, H330, H334, H335 (c. <5%), H400, H411
Impurities / stabilising additives	None

SECTION 4

First-aid measures

Inhalation	Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
Skin contact	Remove substance immediately. Rinse with plenty of water for at least 15 minutes. Get medical attention.
Eye contact	Remove contact lenses if present. Rinse eyes with water. Continue to rinse for at least 15 minutes and seek medical attention
Ingestion	Rinse mouth thoroughly. Give small glasses of water or milk. Do not induce vomiting. Get medical attention immediately.
Symptoms / effects & medical attention	See Section 11

SECTION 5

Fire-fighting measures

Suitable extinguishing media	Alcohol-resistant foam, carbon dioxide, dry powder or water fog. For this substance/mixture no limitations of extinguishing agents are given.
Unsuitable extinguishing media	None known
Special hazards	Carbon oxides Mixture with combustible ingredients. Forms explosive mixtures with air on intense heating Development of hazardous combustion gases or vapours possible in the event of fire.
Advice for firefighters	Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing. Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6

Accidental release measures

Personal precautions & PPE	Avoid breathing dust/fume/gas/mist/vapours/spray. Provide adequate ventilation. For personal protection, see section 8.
Environmental precautions	Avoid discharge to the aquatic environment. Control run-off water.
Containment & clean-up methods	Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. Flush contaminated area with plenty of water.

For specific precautions, see Section 8 and Section 13.

SECTION 7

Handling & storage

Storage temperature	Ambient
Precautions for safe handling	Wear protective clothing, gloves, eye and face protection. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray. Observe good chemical hygiene practices. Keep away from food, drink and animal feeding stuffs. Wash contaminated skin thoroughly after handling. Do not eat, drink or smoke when using this product. Remove contaminated clothing and launder thoroughly before re-use.
Conditions for safe storage (incompatibilities)	Store in a well-ventilated place. Keep container tightly closed. Store locked up. Store under inert gas.

SECTION 8

Exposure controls / personal protection

Occupational exposure limits (OEL / WEL)	Glutaraldehyde UK - EH40/2005 Work Exposure Limits, Fourth edition. Published 2020. STEL: 0.05 ppm 15 min STEL: 0.2 mg/m³ 15 min TWA: 0.05 ppm 8 hr TWA: 0.2 mg/m³ 8 hr Resp. Sens. IRE - 2021 Code of Practice for the Chemical Agents Regulations, Schedule 1. Published by the Health and Safety Authority STEL: 0.05 ppm 15 min STEL: 0.2 mg/m³ 15 min
DNEC/PNEC data	DNEC Chronic effects systemic (Dermal): 6.25 mg/kg bw/day PNEC Fresh water: 0.0025 mg/L Fresh water sediment: 0.091 mg/kg sediment dw Water Intermittent: 0.006 mg/L Microorganisms in sewage treatment: 0.8 mg/L Soil (Agriculture): 0.21 mg/kg soil dw Marine water: 0.00025 mg/L Marine water sediment: 0.009 mg/kg sediment dw
Eye / face protection	Safety glasses Wear eye/face protection as recommended. All eye/face protection should comply with EN ISO 16321-1:2022.
Skin / hand protection	Gloves: Nitrile Rubber, 0.11mm (480 mins).
Respiratory protection	Full-face respirator Keep self-contained breathing apparatus readily available for emergency use. Provide adequate ventilation. If ventilation is insufficient, suitable respiratory protection must be provided. Respiratory equipment: Reusable Air-Purifying Respirator (APR). Filter type: ABEK. Standard: EN 14387.

SECTION 9

Physical & chemical properties

Density (g/mL)	1.106 g/mL DERIVED FROM: LITERATURE
Flash point	Not applicable
Acidity	Acid DERIVED FROM: LITERATURE
Appearance / physical state	Liquid DERIVED FROM: LITERATURE
Colour	Colourless. DERIVED FROM: LITERATURE
Odour	Not known DERIVED FROM: LITERATURE
Melting / freezing point	-33 - -21°C DERIVED FROM: LITERATURE
Boiling point	101 - 101.5°C DERIVED FROM: LITERATURE
Solubility (water)	No data available
pH	3.0 - 6.0 DERIVED FROM: LITERATURE
Vapour pressure	20 hPa at 20 °C DERIVED FROM: LITERATURE
Partition coefficient (log Pow)	Not applicable
Auto-ignition / decomposition temp	Not applicable

SECTION 10

Stability & reactivity

Chemical stability / reactivity	Stable under normal conditions. Stable under the prescribed storage conditions
Conditions to avoid	Avoid heat.
Incompatible materials	Strong oxidising agents. Strong acids. Strong bases (alkalis)
Hazardous decomposition products	See section 5

SECTION 11

Toxicological information

Acute toxicity (LD50 / LC50)	Information on hazard classes as defined in Regulation (EC) No 1272/2008 Glutaraldehyde: LD50 (Oral) - 77 mg/kg - Rat ATE (Oral)= 154 mg/kg All LD50 values came from external SDS LD50 (Dermal) - 1800 mg/kg - Rabbit ATE (Dermal)= 3600 mg/kg LC50 (Inhalation) - 0.28 mg/l - Rat - 4h ATE (Inhalation)= 0.56 mg/l
Skin corrosion / irritation	Causes severe skin burns.
Eye corrosion / irritation	Causes serious eye damage.
Respiratory / skin sensitisation	May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Carcinogenicity	Not classified
Mutagenicity	Not classified
Reproductive toxicity	Not classified
STOT (single / repeated exposure)	May cause respiratory irritation.
Aspiration hazard	Not classified
Endocrine disruptors	Not classified

SECTION 12

Ecological information

Aquatic toxicity	Glutaraldehyde (All values came from external SDS) static test LC50 - Oncorhynchus mykiss (rainbow trout) - 0.8 g/l - 96 h static test EC50 - Daphnia magna - 0.56 - 1.0 mg/L - 48h static test ErC50 - Desmodesmus subspicatus (green algae) - 0.6 mg/l - 72 h
Persistence & degradability	<i>No data available</i>
Bioaccumulative potential	<i>No data available</i>
Mobility in soil	<i>No data available</i>
PBT / vPvB assessment	Not PBT or vPvB.

SECTION 13

Disposal considerations

Waste treatment / disposal methods	Dispose of contents/container in accordance with national regulations.
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SECTION 14

Transport information

UN number	UN2922
Proper shipping name	CORROSIVE LIQUID, TOXIC, N.O.S.
Class	8 (6.1)
Packing group	II
Transport category	2
Tunnel code	(E)
Packing instruction (ADR)	P001
Packing instruction (IMDG)	P001
Environmental hazards	Yes.
Special precautions for user	Handle in accordance with good industrial hygiene and safety practice



SECTION 15

Regulatory information

REACH code	Y110
UFI code	7REX-DCY3-WC8A-KTFC
ECHA notification	<i>Not applicable</i>
Chemical safety assessment carried out?	<i>Not applicable</i>

SECTION 16

Other information

Revision notes / other information	This SDS replaces SDS Revision 1, published 29/10/2021. According to REACH etc.(Amendment etc.) (EU Exit) Regulations 202 No. 1577. Harmonised Entry. Index No. 605-022-00-X Hazard classification and labelling according to Regulation (EC) 1272/2008 All eye/face protection should comply with EN ISO 16321-1:2022 Respiratory equipment: Reusable air-purifying respirator (APR) Filter Type: ABEK Standard: EN 14387 National Regulations: -Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances Other regulations, limitations and legal regulations: -Directive 94/33/EC- The protection of young people at work
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