

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 14/05/2015 Revision date: 29/06/2022 Supersedes: 14/05/2015

Version: 2.0

CLM-4236

SECTION 1: Identification of the su	ubstance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Substance
Substance name	: GLYCOLALDEHYDE (13C2, 99%) AQUEOUS SOLUTION
CAS-No.	: 478529-69-0
Product code	: CLM-4236
Formula	: *C2H4O2
Synonyms	: 2-Hydroxyacetaldehyde-1,2-13C2; 2-Hydroxyethanal-1,2-13C2; 2-Oxoethanol-1,2-13C2; Hydroxyacetaldehyde-1,2-13C2; / Diose-1,2-13C2; Glicolaldehido-1,2-13C2; Glycolic Aldehyde-1,2-13C2; Glycollaldehyde-1,2-13C2; Hydroxyethanal-1,2-13C2; / Methylolformaldehyde-1,2-13C2; Monomethylolformaldehyde-1,2-13C2; NSC 67935-1,2-13C2;
1.2. Relevant identified uses of the su	ubstance or mixture and uses advised against
1.2.1. Relevant identified uses	
Main use category	: Professional use
Industrial/Professional use spec	: For professional use only
1.2.2.Uses advised againstNo additional information available	
1.3. Details of the supplier of the safe	ty data sheet
Andover, MA 01810 USA USA: 1-800-322-1174 Int: 1-978-749-8000 <u>cilsales@isotope.com</u> www.isotope.com	
Emergency telephone number	
Emergency numbers:	
Chemtrec: 1-800-424-9300 (24 hours) International: 1-703-741-5970 (24 hours)	
SECTION 2: Hazards identification	
2.1. Classification of the substance or	r mixture
Classification according to Regulation (EC Not classified	:) No. 1272/2008 [CLP]
Classification according to Directive 67/54 Not classified	8/EEC [DSD] or 1999/45/EC [DPD]
GHS-US classification	
Not classified	
Adverse physicochemical, human health a No additional information available	ind environmental effects
2.2. Label elements	
Labeling according to Regulation (EC) No.	1070/0000 FOL D1

GHS-US labeling

No labeling applicable

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2.3. **Other hazards**

No additional information available

.1. Substances			
Name	Product identifier	%	Classification according to Directive 67/548/EEC
GLYCOLALDEHYDE (13C2, 99%) AQUEOUS SOLUTION	(CAS-No.) 478529-69-0 (EC-No.) (EC Index-No.)	100	Not classified
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
GLYCOLALDEHYDE (13C2, 99%) AQUEOUS SOLUTION	(CAS-No.) 478529-69-0 (EC-No.) (EC Index-No.)	100	Not classified

Full text of R- and H- phrases: see section 16

Name	Product identifier	%	GHS-US classification
GLYCOLALDEHYDE (13C2, 99%) AQUEOUS SOLUTION (Main constituent)	(CAS-No.) 478529-69-0	100	Not classified

Full text of H-phrases: see section 16

Mixtures 3.2. Not applicable

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general : If you feel unwell, seek medical advice (show th	ne label where possible). Evacuate danger area.
First-aid measures after inhalation : When symptoms occur: go into open air and ve artificial respiration. Get medical advice/attentio	
First-aid measures after skin contact : Wash with plenty of soap and water. Get immed	diate medical advice/attention.
First-aid measures after eye contact : Rinse cautiously with water for several minutes.	
First-aid measures after ingestion : Never give anything by mouth to an unconsciou medical advice/attention.	us person. Rinse mouth out with water. Get
4.2. Most important symptoms and effects, both acute and delayed	
Symptoms/effects after inhalation : May be harmful if inhaled. May cause respirator	ry irritation.
Symptoms/effects after skin contact : May be harmful in contact with skin. May cause	e moderate irritation.
Symptoms/effects after eye contact : May cause eye irritation.	
Symptoms/effects after ingestion : May be harmful if swallowed.	
4.3. Indication of any immediate medical attention and special treatment needed	
4.3. Indication of any immediate medical attention and special treatment needed No additional information available	
No additional information available	
No additional information available SECTION 5: Firefighting measures	
No additional information available SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media : Suitable extinguishing agents: Carbon dioxide, or suitable	
No additional information available SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media : Suitable extinguishing agents: Carbon dioxide, larger fires with water spray or alcohol resistant	
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No additional information available SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media : Suitable extinguishing agents: Carbon dioxide, a larger fires with water spray or alcohol resistant 5.2. Special hazards arising from the substance or mixture No additional information available	nable distance. Wear a self contained breathing
No additional information available SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media : Suitable extinguishing agents: Carbon dioxide, a larger fires with water spray or alcohol resistant 5.2. Special hazards arising from the substance or mixture No additional information available 5.3. Advice for firefighters : Fight fire with normal precautions from a reasor apparatus. Do not enter fire area without proper	t foam. nable distance. Wear a self contained breathing r protective equipment, including respiratory equipment, including respiratory protection.
No additional information available SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media : Suitable extinguishing agents: Carbon dioxide, a larger fires with water spray or alcohol resistant 5.2. Special hazards arising from the substance or mixture No additional information available	t foam. nable distance. Wear a self contained breathing r protective equipment, including respiratory equipment, including respiratory protection.
No additional information available SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media : Suitable extinguishing agents: Carbon dioxide, a larger fires with water spray or alcohol resistant 5.2. Special hazards arising from the substance or mixture No additional information available . 5.3. Advice for firefighters Firefighting instructions : Fight fire with normal precautions from a reasor apparatus. Do not enter fire area without proper protection. Protection during firefighting : Do not enter fire area without proper protective equiperation.	t foam. nable distance. Wear a self contained breathing r protective equipment, including respiratory equipment, including respiratory protection.
No additional information available SECTION 5: Firefighting media 5.1. Extinguishing media Suitable extinguishing agents: Carbon dioxide, a larger fires with water spray or alcohol resistant 5.2. Special hazards arising from the substance or mixture No additional information available 5.3. Advice for firefighters Firefighting instructions : Fight fire with normal precautions from a reason apparatus. Do not enter fire area without proper protection. Protection during firefighting : Do not enter fire area without proper protective Wear recommended personal protective equipments SECTION 6: Accidental release measures	t foam. nable distance. Wear a self contained breathing r protective equipment, including respiratory equipment, including respiratory protection.

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6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Prevent entry to sewers and public waters	. Do not allow to enter drains or water courses. Avoid release to the environment.
6.3. Methods and material for cont	ainment and cleaning up
For containment	: Clean up any spills as soon as possible, using an absorbent material to collect it. For large spills, confine the spill in a dike and charge it with wet sand or earth for subsequent safe disposal. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal.
Methods for cleaning up	: This material and its container must be disposed of in a safe way, and as per local legislation.
6.4. Reference to other sections	
For further information refer to section 13.	
SECTION 7: Handling and stora	ge
7.1. Precautions for safe handling	
Precautions for safe handling	: Provide adequate ventilation to minimize dust and/or vapor concentrations.
Hygiene measures	 Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Handle in accordance with good industrial hygiene and safety practice.
7.2. Conditions for safe storage, ir	ncluding any incompatibilities
Technical measures	: Store in a well-ventilated place. Keep container tightly closed.
Storage conditions	: Store at room temperature away from light and moisture.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/	personal protection
8.1. Control parameters	
No additional information available	
8.2. Exposure controls	
Appropriate engineering controls	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
Personal protective equipment	: Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.
Materials for protective clothing	: Wear suitable protective clothing and gloves.
Hand protection	: Wear suitable protective clothing and gloves.
Eye protection	: Wear eye protection. Chemical goggles or face shield with safety glasses.
Skin and body protection	: Wear suitable protective clothing, gloves and eye/face protection.
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. Approved supplied air respirator.
Environmental exposure controls	: Avoid release to the environment.
SECTION 9: Physical and chem	ical properties
9.1. Information on basic physical	
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9.1.	mormation on basic physical and	Che	inical properties
Physical s	tate	:	Liquid
Appearan	ce	:	Liquid, clear
Molecular	mass	:	62.04 g/mol (Labeled)
Color		:	Colorless
Odor		:	No data available
Odor three	shold	:	No data available
рН		:	No data available
Relative e	vaporation rate (butyl acetate=1)	:	No data available
Melting po	pint	:	No data available
Freezing p	point	:	No data available
Boiling po	int	:	No data available
Flash poir	ıt	:	No data available
30/06/2022			EN (English US)

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Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosion limits	: No data available

9.2. **Other information**

No additional information available

SECTION 10: Stability and reactivity
10.1. Reactivity
No additional information available
10.2. Chemical stability
Stable if stored under recommended conditions.
10.3. Possibility of hazardous reactions
No additional information available
10.4. Conditions to avoid
No additional information available
10.5. Incompatible materials
Strong oxidizing agent.
10.6. Hazardous decomposition products
Carbon oxides (CO, CO2).
SECTION 11: Toxicological information

11.1. Information on toxicological effects	
Acute toxicity	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity - single exposure	: Not classified
Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.
Symptoms/effects after inhalation	: May be harmful if inhaled. May cause respiratory irritation.
Symptoms/effects after skin contact	: May be harmful in contact with skin. May cause moderate irritation.
Symptoms/effects after eye contact	: May cause eye irritation.
Symptoms/effects after ingestion	: May be harmful if swallowed.

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SECTIO	ON 12: Ecological information	
12.1.	Toxicity	
Ecology -	general :	The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
12.2. No additie	Persistence and degradability onal information available	
12.3. No additi	Bioaccumulative potential onal information available	
12.4. No additio	Mobility in soil onal information available	
12.5. No additie	Results of PBT and vPvB assessment onal information available	
12.6.	Other adverse effects	
No additi	onal information available	
SECTIO	ON 13: Disposal considerations	
13.1.	Waste treatment methods	
		Waste materials should be disposed of under conditions which meet Federal, State, and local environmental control regulations.
	Packaging disposal recommendations	Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.
Ecology -	waste materials	Dispose of as unused product.
	ON 14: Transport information	
	ance with ADR / RID / IMDG / IATA / ADN	
14.1. Not applie	UN number	
14.2.	UN proper shipping name	
Not appli	cable	
14.3.	Additional information	
Other info	prmation :	No supplementary information available.
Special tr	ansport precautions :	Not dangerous goods.
Overland	l transport	
No additi	onal information available	
Transpo	rt by sea onal information available	
Air trans	port onal information available	
14.4.	Environmental hazards	
Other info	ormation	No supplementary information available.
14.5. Special tr	Special precautions for user ansport precautions	Not dangerous goods.
11.0	Transmission in the ball of the second fill of the	
14.6. Not appli	Transport in bulk according to Annex cable	II OI MIARFUL /3//8 and the IBC COde
SECTIO	ON 15: Regulatory information	
	Federal regulations	
GL VCO	ALDEHYDE (13C2 99%) AQUEOUS S	OLUTION (478529-69-0)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

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SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.

15.2. International regulations

CANADA

No additional information available

15.2.1. National regulations

	GLYCOLALDEHYDE (13C2, 99%) AQUEOUS SOLUTION (478529-69-0)
	Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)
	15.3. US State regulations
ſ	GLYCOLALDEHYDE (13C2, 99%) AQUEOUS SOLUTION(478529-69-0)

U.S California - Proposition 65 - Carcinogens List	No
U.S California - Proposition 65 - Developmental Toxicity	No
U.S California - Proposition 65 - Reproductive Toxicity - Female	No
U.S California - Proposition 65 - Reproductive Toxicity - Male	No
State or local regulations	RTK - U.S Pennsylvania - RTK (Right to Know) List RTK - U.S New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information	
Other information	: This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.
NFPA health hazard	: 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.
NFPA fire hazard	: 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.
Hazard Rating	
Health	: 0 Minimal Hazard - No significant risk to health
Flammability	: 0 Minimal Hazard
Physical	: 0 Minimal Hazard

CIL Substance SDS

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product