

Revision Date:22-06-2024 Date of printing: 22-06-2023

SAFETY DATA SHEET

	1	upst	cance/mixture and of the company/undertaking			
1.1	Product identifiers	1				
	Product name	:	Methylglyoxal 1,1-dimethyl acetal			
	CAS-No.	:	6342-56-9			
1.2	Relevant identified uses of the substance or mixture and uses advised against					
	Identified uses : To be used only for scientific research and development. Not for use in humans or animals.					
1.3	Details of the supplier of the safety data sheet					
	Company	:	Inventys Research Company Pvt Ltd D-514, Kanakia Zillion, BKC Annex, (LBS Road Junction, CST Road, Near Kurla Bus Depot),Kurla West, Mumbai 400070. INDIA Tel:+91.22.714.00.200 Fax:+91.22.714.00.299 www.Inventys.In			
1.4	Emergency telephone num	ber				
-	Emergency Phone #	:	+91 22.714.00.200			
SECT	ION 2: Hazards identification					
	1					
2.1	Classification of the substance or mixture					
Flammable liquids (Category 3), H226 Skin irritation (Category 2), H315 Eye irritation (Category 2), H319 For the full text of the H-Statements mentioned in this Section, see Section 16.						
2.2	1.0					
	Labelling according Regulati Pictogram Signal word Warning Hazard statement(s) H226: Flammable liquid and H315: Causes skin irritation.	g vap	or.			
	H319: Causes serious eye irritation. Precautionary statement(s)					
	P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P302 + P352: IF ON SKIN: Wash with plenty of water. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, present and easy to do. Continue rinsing.					
	Reduced Labeling (<= 125 ml	l)				



Revision Date:22-06-2024 Date of printing: 22-06-2023

Pictogram



Signal Word Warning

Hazard statement(s) : none
Precautionary statement(s): none
Supplemental Hazard Statements: none

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

3.1 Substances

 Jabstanices	Substances					
Molecular Formula	: C ₅ H ₁₀	O ₃				
Molecular weight	: 118,1	l3 g/mol				
CAS-No	: 6342-	-56-9				
EC Number	: 228-7	735-4				
Synonyms.	: 1,1-D	imethoxyacetone	•			

			_		
Component	Classification			Concentration	
		NV			
1,1-Dimethoxyacetone					
CAS-No.: 6342-56-9	Flam. Liq. 3; Skin Irr	it. 2;		<= 100 %	
	Eye Irrit. 2; H226, H	315, H319			
EC-No.: 228-735-4					

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed



Revision Date:22-06-2024 Date of printing: 22-06-2023

	The most important known symptoms and effects are described in the labeling (see section 2.2) and/or section 11.					
4.3	Indication of any immediate medical attention and special treatment needed					
	No data available					
SECT	ION 5: Firefighting measures					
5.1	Extinguishing media					
	Suitable extinguishing media					
	Dry powder Dry sand.					
	Unsuitable extinguishing media					
	Do NOT use water jet.					
5.2	Special hazards arising from the substance or mixture					
	Carbon oxides					
5.3	Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.					
	wear sen-contained breathing apparatus for menghting in necessary.					
5.4	Further information					
	Use water spray to cool unopened containers.					
SECT	ION 6: Accidental release measures					
	Personal precautions, protective equipment and emergency procedures					
	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove					
	all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can					
	accumulate in low areas. For personal protection see section 8.					
6.2	Environmental precautions					
	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.					
6.3	Methods and materials for containment and cleaning up					
	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous					
	earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).					
6.4	Reference to other sections					
	For disposal see section 13.					
	ION 7: Handling and storage					
7.1	Precautions for safe handling					
	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.					
	Keep away from sources of ignition - No smoking. Take measures to prevent the build up of					
	electrostatic charge.					
	For precautions see section 2.2.					
7.2	Conditions for safe storage, including any incompatibilities					
	Storage conditions Keep container tightly closed in a dry and well-ventilated place. Containers which are					
	opened must be carefully resealed and kept upright to prevent leakage. Store in cool place.					
	Storage class					
	Storage class (TRGS 510): 3: Flammable liquids					
7.3	Specific end use(s)					
7.3	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated					
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Revision Date:22-06-2024 Date of printing: 22-06-2023

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

8.2 Exposure controls

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0,4 mm Break through time: 10 min

Material tested: Camatril® (KCL 730 / Aldrich Z677442, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail

sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Impervious clothing, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties



Revision Date:22-06-2024 Date of printing: 22-06-2023

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	a) Appearance	clear, liquid Color: dark yellow
	b) Odor	No data available
	c) Odor Threshold	No data available
	d) pH	No data available
	e) Melting point/ freezing point	No data available
	f) Initial boiling point and boiling range	143 to 147°C
	g) Flash point	26 °C - closed cup
	h) Evaporation rate	No Data Available
	i) Flammability (solid, gas)	No Data Available
	j) Upper/lower flammability or explosive limits	Upper explosion limit: 12,3 %(V) Lower explosion limit: 2,5 %(V)
	k) Vapor pressure	11.31 hPa at 20 °C
	I) Vapor density	No Data Available
	m) Density	0.976 g/mL at 25 °C
	Relative density	No Data Available
	n) Water solubility	No Data Available
	o) Partition coefficient: n octanol/water	log Powt -0.1
	p) Auto-ignition temperature	No Data Available
	q) Decomposition temperature	No Data Available
	r) Viscosity	No Data Available
	s) Explosive properties	No Data Available
	t) Oxidizing properties	The substance or mixture is classified as oxidizing with the category 2.
9.2	Other safety information	
	No Data Available	
	SECTION 10: Stability and r	eactivity
10.1	Reactivity: No data available	e
10.2	Chemical stability: Stable un	nder recommended storage conditions.
10.3	Conditions to avoid: Heat, f	lames and sparks.
	Conditions to avoid. Heat, I	iailies aliu spalks.



Revision Date:22-06-2024 Date of printing: 22-06-2023

10.4	Possibility of hazardous reactions: No data available				
10.5	Incompatible materials: acids, Strong oxidizing agents				
10.6	Hazardous decomposition products formed under fire conditions.: Carbon oxides				
SECTI	ON 11: Toxicological information				
11.1	Information on toxicological effects				
	Acute toxicity				
	No data available				
	Skin corrosion/irritation				
	No data available				
	Serious eye damage/eye irritation				
	No data available				
	Respiratory or skin sensitization				
	No data available				
	Germ cell mutagenicity				
	No data available				
	Carcinogenicity				
	IARC: No component of this product present at levels greater than or equal to 0.1% is				
	identified as probable, possible or confirmed human carcinogen by IARC.				
	Reproductive toxicity No data available				
	Specific target organ toxicity - single exposure No data available				
	Specific target organ toxicity - repeated exposure				
	No data available				
	Aspiration hazard				
	No data available				
11.2	Additional Information				
	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly				
	investigated.				
SECTI	ON 12: Ecological information				
12.1	Toxicity: No data available				
12.2	Persistence and degradability: No data available				
12.3	Bioaccumulative potential: No data available				
12.4	Mobility in soil: No data available				
12.5	Results of PBT and vPvB assessment				
	This substance/mixture contains no components considered to be either persistent, bioaccumulative and				
42.6	toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.				
12.6	Endocrine disrupting properties: No data available				
12.7	Other adverse effects: No data available				
	ON 13: Disposal considerations				
13.1	Waste treatment methods				



Revision Date:22-06-2024 Date of printing: 22-06-2023

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number

ADR/RID: 1224 IMDG: 1224 IATA: 1224

14.2 UN proper shipping name

ADR/RID: KETONES, LIQUID, N.O.S. (1,1-Dimethoxyacetone) IMDG: KETONES, LIQUID, N.O.S. (1,1-Dimethoxyacetone) IATA: KETONES, LIQUID, N.O.S. (1,1-Dimethoxyacetone)

14.3 Transport hazard class(es)

ADR/RID: 3 IMDG: 3 IATA: 3

14.4 Packaging group

ADR/RID: III IMDG: III IATA: III

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user

No data available

SECTION 15: Regulatory information

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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

National legislation

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. : FLAMMABLE LIQUIDS

15.2 Chemical Safety Assessment:

For this product a chemical safety assessment was not carried out

SECTION 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

H226 Flammable liquid and vapor.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Further information

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Revision Date:22-06-2024 Date of printing: 22-06-2023

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