SIGMA-ALDRICH

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SAFETY DATA SHEET

Version 4.3 Revision Date 10/13/2016 Print Date 05/07/2018

Product name Product Number Brand Product Use Supplier	:	493023 Aldrich		
Brand Product Use	:	Aldrich		
Product Use	:			
	:			
Supplier		For laboratory research purposes.		
	:	Sigma-Aldrich Canada Co. 2149 Winston Park Drive OAKVILLE ON L6H 6J8 CANADA	Manufactur : er	Sigma-Aldrich Corporation 3050 Spruce St. St. Louis, Missouri 63103 USA
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Emergency Phone both supplier and manufacturer)	# (For :	+1-703-527-3887 (CHEMTREC)		
Preparation Inform	ation :	Sigma-Aldrich Corporation Product Safety - Americas Region 1-800-521-8956		
WHMIS Classif	f ication Flammable lie	nuid	Flammable liquid	
GHS Classifica Flammable liqu Acute toxicity, C	ation ids (Category	(3)		
GHS Label ele	ments, inclu	ding precautionary statements		
Pictogram				
Signal word		Warning		
Hazard stateme H226	ent(s)	Flammable liquid and vapour. Harmful if swallowed.		
H302				
H302 Precautionary s	statement(s)	none		

Inhalation Skin	May be harmful if inhaled. May cause respiratory tract irritation. Harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.
Ingestion	Harmful if swallowed.

Synonyms	:	Ethynyl methyl vinyl carbinol
Formula Molecular weight		C ₆ H ₈ O 96.13 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
3-Methyl-1-penten-4-yn-3-ol			
3230-69-1	221-770-6	-	<=100%

4. FIRST AID MEASURES

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

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

Flush eyes with water as a precaution.

If swallowed

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

5. FIREFIGHTING MEASURES

Conditions of flammability

Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.

Suitable extinguishing media

For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

Special protective equipment for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Hazardous combustion products

Explosion data - sensitivity to mechanical impact No data available

Explosion data - sensitivity to static discharge No data available

Further information

Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental precautions

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

Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

7. HANDLING AND STORAGE

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.

Conditions for safe storage

Store in cool place. 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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose 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).

Hand 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.

Eye 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 and body protection

Complete suit protecting against chemicals, 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.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Specific engineering controls

Use mechanical exhaust or laboratory fumehood to avoid exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

-	•	
	Form	clear, liquid
	Colour	light yellow
Sa	afety data	
	рН	No data available
	Melting point/freezing point	No data available
	Boiling point	63 - 65 °C (145 - 149 °F) at 133 hPa (100 mmHg) - lit.
	Flash point	32.2 °C (90.0 °F) - closed cup
	Ignition temperature	No data available
	Auto-ignition temperature	No data available
	Lower explosion limit	No data available
	Upper explosion limit	No data available
	Vapour pressure	No data available
	Density	0.89 g/cm3 at 25 °C (77 °F)
	Water solubility	No data available

Partition coefficient: n-octanol/water	No data available
Relative vapour density	No data available
Odour	No data available
Odour Threshold	No data available

10. STABILITY AND REACTIVITY

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

Vapours may form explosive mixture with air.

Conditions to avoid

Heat, flames and sparks.

Materials to avoid Strong oxidizing agents

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides Other decomposition products - No data available

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Oral LD50 LD50 Oral - Mouse - 1,350 mg/kg

Inhalation LC50 No data available

Dermal LD50 No data available

Other information on acute toxicity No data available

Skin corrosion/irritation No data available

Serious eye damage/eye irritation No data available

Respiratory or skin sensitisation 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.
- ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

Reproductive toxicity

No data available

Teratogenicity

No data available

Specific target organ toxicity - single exposure (Globally Harmonized System) No data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System) No data available

Aspiration hazard No data available

Potential health effects

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion	Harmful if swallowed.
Skin	Harmful if absorbed through skin. May cause skin irritation.
Eves	May cause eve irritation.

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Synergistic effects No data available

Additional Information RTECS: SB4950000

12. ECOLOGICAL INFORMATION

Toxicity

No data available

Persistence and degradability No data available

Bioaccumulative potential No data available

Mobility in soil No data available

PBT and vPvB assessment

No data available

Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

UN number: 1987 Class: 3 Proper shipping name: Alcohols, n.o.s. Marine pollutant: No Packing group: III

Poison Inhalation Hazard: No

IMDG

UN number: 1987 Class: 3 Packing group: III EMS-No: F-E, S-D Proper shipping name: ALCOHOLS, N.O.S. (3-Methyl-1-penten-4-yn-3-ol) Marine pollutant: No

ΙΑΤΑ

UN number: 1987 Class: 3 Packing group: III Proper shipping name: Alcohols, n.o.s. (3-Methyl-1-penten-4-yn-3-ol)

15. REGULATORY INFORMATION

WHMIS Classification

B2 Flammable liquid

Flammable liquid

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

16. OTHER INFORMATION

Further information

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