# SIGMA-ALDRICH

1.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 Version 5.0 Revision Date 23.07.2012 Print Date 30.01.2015 GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

# IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

••				
1.1	Product identifiers Product name	:	trans-4-Methoxy-3-buten-2-one	
	Product Number Brand CAS-No.	:	122068 Aldrich 51731-17-0	
1.2	.2 Relevant identified uses of the substance or mixture and uses advised against			
	Identified uses	:	Laboratory chemicals, Manufacture of substances	
1.3 Details of the supplier of the safety data sheet				
	Company	:	Sigma-Aldrich Chemie GmbH Riedstrasse 2 D-89555 STEINHEIM	
	Telephone Fax E-mail address	:	+49 89-6513-1444 +49 7329-97-2319 eurtechserv@sial.com	
1.4	1.4 Emergency telephone number			
	Emergency Phone #	:	+49 7329-97-2323	

# 2. HAZARDS IDENTIFICATION

## 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008. Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

## 2.2 Label elements

The product does not need to be labelled in accordance with EC directives or respective national laws.

## 2.3 Other hazards - none

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Formula	:	C <sub>5</sub> H <sub>8</sub> O <sub>2</sub>
Molecular Weight	:	100,12 g/mol

# 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

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.

#### **4.2** Most important symptoms and effects, both acute and delayed To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**4.3** Indication of any immediate medical attention and special treatment needed no data available

# 5. FIREFIGHTING MEASURES

## 5.1 Extinguishing media

#### 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.

5.2 Special hazards arising from the substance or mixture Carbon oxides

#### 5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

#### 5.4 Further information

Use water spray to cool unopened containers.

# 6. ACCIDENTAL RELEASE MEASURES

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

Avoid breathing vapors, mist or gas. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

### 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 an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

For disposal see section 13.

# 7. HANDLING AND STORAGE

# 7.1 Precautions for safe handling

#### Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

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

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.

Recommended storage temperature: 2 - 8 °C

# 7.3 Specific end uses

no data available

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

### Components with workplace control parameters

#### 8.2 Exposure controls

#### Appropriate engineering controls

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

### Personal protective equipment

#### Eye/face protection

Safety glasses with side-shields conforming to EN166 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 EU Directive 89/686/EEC and the standard EN 374 derived from it.

#### **Body Protection**

impervious 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 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).

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

a)	Appearance	Form: clear, liquid Colour: light yellow	
		Colour. light yellow	
b)	Odour	no data available	
c)	Odour Threshold	no data available	
d)	рН	no data available	
e)	Melting point/freezing point	no data available	
f)	Initial boiling point and boiling range	200 °C - lit.	
g)	Flash point	63 °C - closed cup	
h)	Evaporation rate	no data available	
i)	Flammability (solid, gas)	no data available	
j)	Upper/lower flammability or explosive limits	no data available	
k)	Vapour pressure	no data available	
I)	Vapour density	no data available	
m)	Relative density	0,982 g/mL at 25 °C	
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	n)	Water solubility	no data available		
	o)	Partition coefficient: n- octanol/water	no data available		
	p)	Autoignition temperature	no data available		
	q)	Decomposition temperature	no data available		
	r)	Viscosity	no data available		
	s)	Explosive properties	no data available		
	t)	Oxidizing properties	no data available		
9.2	Other safety information no data available				
10.	ST	ABILITY AND REACTIVI	ТҮ		
10.1	no data available				
10.2		<b>emical stability</b> data available			
10.3		<b>ssibility of hazardous re</b> data available	actions		
10.4		<b>nditions to avoid</b> at, flames and sparks.			
10.5		ompatible materials ong oxidizing agents, Stro	ong acids, Strong reducing agents, Strong bases		
10.6		zardous decomposition ner decomposition product			
11.	то	XICOLOGICAL INFORM	ATION		
11.1	Inf	Information on toxicological effects			
		<b>ute toxicity</b> data available			
		in corrosion/irritation data available			
		r <b>ious eye damage/eye ir</b> data available	ritation		
		<b>spiratory or skin sensiti</b> data available	zation		
		rm cell mutagenicity data available			
	Ca	rcinogenicity			
	IAF		of this product present at levels greater than or equal to 0.1% is identified as a le or confirmed human carcinogen by IARC.		
		<b>productive toxicity</b> data available			
		ecific target organ toxic data available	ity - single exposure		
	-	ecific target organ toxic data available	ity - repeated exposure		
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#### Potential health effects

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

# Signs and Symptoms of Exposure

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

# **Additional Information**

**RTECS:** Not available

# 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 no data available
- **12.6 Other adverse effects** no data available

# 13. DISPOSAL CONSIDERATIONS

# 13.1 Waste treatment methods

#### Product

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. 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.	TRANSPOR	RT INFORMATION			
14.1	<b>UN number</b> ADR/RID: -		IMDG: -	IATA: -	
14.2	ADR/RID: IMDG:	<b>shipping name</b> Not dangerous goods Not dangerous goods Not dangerous goods			
14.3	Transport h ADR/RID: -	nazard class(es)	IMDG: -	IATA: -	
14.4	Packaging ADR/RID: -		IMDG: -	IATA: -	
14.5	Environme ADR/RID: no	ntal hazards o	IMDG Marine pollutant: no	IATA: no	
14.6	<b>Special pre</b> no data avai	cautions for user ilable			
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# 15. REGULATORY INFORMATION

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

- **15.1** Safety, health and environmental regulations/legislation specific for the substance or mixture no data available
- **15.2 Chemical Safety Assessment** no data available

# 16. OTHER INFORMATION

#### **Further information**

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.