

# Safety Data Sheet

Release 1.0  
Revision 10/17/2019  
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## 1 Identification of the substance

### 1.1 Product identifier

Identification of the substance Methacrolein

Additional identification 2-Methyl-2-propenal;Methacrylaldehyde;2-Methylacrolein

Catalogue Number FM25133

REACH No. A registration number is not available for this substance as the substance or its uses are exempted from registration or the annual tonnage does not require a registration.

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses basic Intermediates

Restriction on use not for food or drug use, for laboratory use only

### 1.3 Details of the supplier of the safety data sheet

Company Carbosynth Ltd  
8&9 Old Station Business Park  
COMPTON RG20 6NE  
Phone +44 1635 578444  
Mail customerservice@biosynth-carbosynth.com

### 1.4 Emergency telephone number

Phone 24hr/7days: +44 118 338 8269

## 2 Hazards identification

### 2.1 Classification of the substance or mixture

#### Physical Hazards

Flammable liquid (Category 2), H225

#### Health Hazards

acute toxicity (Category 2)

acute toxicity (Category 3)

Skin corrosion (Category 1B), H314

acute toxicity (Category 3)

#### Environmental Hazards

not classified

### 2.2 Label elements

#### Symbol

GHS02 flame

#### Pictogram



GHS05 corrosion

#### Pictogram



GHS06 skull and crossbones

#### Pictogram



**Signal Word**

Danger                      Danger

**Hazard Statement**

H225                      Highly flammable liquid and vapour.  
H301                      Toxic if swallowed.  
H311                      Toxic in contact with skin.  
H314                      Causes severe skin burns and eye damage.  
H330                      Fatal if inhaled.

**Precautionary Statement**

P210                      Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
P240                      Ground/bond container and receiving equipment.  
P280                      Wear protective gloves/protective clothing/eye protection/face protection.  
P301                      IF SWALLOWED:  
P330                      Rinse mouth.  
P331                      Do NOT induce vomiting.  
P304                      IF INHALED:  
P340                      Remove casualty to fresh air and keep at rest in a position comfortable for breathing.  
P305                      IF IN EYES:  
P351                      Rinse cautiously with water for several minutes.  
P338                      Remove contact lenses, if present and easy to do. Continue rinsing.  
P312                      Call a POISON CENTER or doctor/physician if you feel unwell.  
P501                      Dispose of contents / container in accordance with local / regional / national / international regulations.

**3 Composition/information on ingredients****Substance related information**

<i>Substance name</i>	Methacrolein
<i>Synonyms</i>	2-Methyl-2-propenal;Methacrylaldehyde;2-Methylacrolein
<i>Cas No.</i>	[78-85-3]
<i>Formula</i>	C <sub>4</sub> H <sub>6</sub> O

**4 First aid measures****4.1 Description of first aid measures****First Aid: Eye**

Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Consult an ophthalmologist.

**First Aid: Skin**

Wash immediately with plenty of water and soap for at least 15 minutes. Remove contaminated clothing and shoes. Wash contaminated clothes before reuse. Call a physician.

**First Aid: Ingestion**

Wash out mouth with water provided person is conscious. Call a physician.

**4.2 Most important symptoms and effects, both acute and delayed****Hints for Physician: Symptoms**

See Section 11 for additional information on health hazards

**4.3 Indication of any immediate medical attention and special treatment needed****First Aid: Inhalation**

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Call a physician.

**Hints for Physician: Treatment**

Treat symptomatically.

**5 Firefighting measures****5.1 Extinguishing Media****Suitable**

foam, dry extinguishing powder, carbon dioxide (CO<sub>2</sub>), water spray jet

**5.2 Special hazards arising from the substance or mixture**

Wear a self-contained breathing apparatus and chemical protective clothing.

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**Hazards During Fire-Fighting**

toxic fumes

**5.3 Fire-Fighting/Further Advice**

Do not inhale explosion and combustion gases. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Move undamaged containers from immediate hazard area if it can be done safely.

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**6 Accidental release measures****6.1 Personal Precautions, protective equipment and emergency procedures**

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Provide adequate ventilation.

**6.2 Environmental Precautions**

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Ensure all waste water is collected and treated via a waste water treatment plant.

**6.3 Methods and material for containment and cleaning up**

not available

**6.4 Further Accidental Release Measures**

Collect in closed and suitable containers for disposal. Clear contaminated areas thoroughly. Ventilate affected area.

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**7 Handling and storage****7.1 Precautions for safe handling****Handling advice**

Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. Avoid prolonged or repeated exposure. Remove contaminated clothing and wash before reuse. Wash thoroughly after handling.

**7.2 Conditions for safe storage, including any incompatibilities****Storage temperature**

store at 2°C - 8°C

**Storage Requirements**

Keep away from incompatible substances. Keep away from heat, sparks and flame. Keep container tightly closed when not in use.

**7.3 Specific end use(s)**

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**8 Exposure controles/personal protection****8.1 Exposure limit values**

Does not contain any substances with occupational exposure limits.

**8.2 Exposure controles****Industrial Hygiene**

Mechanical exhaust required. Safety shower and eye shower.

**8.3 Personal Protective Equipment****Respiratory Protection**

Wear NIOSH/MSHA or European Standard EN 149 approved respirator.

**Hand Protection**

Wear compatible chemical-resistant gloves to prevent skin exposure.

**Eye Protection**

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA.

**Body Protection**

Wear compatible chemical-resistant gloves and clothing to prevent skin exposure.

**Advice on Safe Handling**

Wash contaminated clothing before reuse. Wear appropriate protective clothing to prevent exposure.

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**9 Physical and chemical properties****9.1 Information on basic Physical and chemical color properties***Color*

colorless

*Form*

clear liquid

**9.2 Other information**

*Molar Mass*  
70.09 g/mol

**10 Stability and reactivity****10.1 Reactivity**

No Data Available

**10.2 Chemical stability**

No Data Available

**10.3 Possibility of hazardous reaction**

No Data Available

**10.4 Conditions to Avoid (SDS)**

incompatible materials

**10.5 Incompatible materials**

strong oxidizers

**10.6 Hazardous decomposition products**

carbon dioxide (CO<sub>2</sub>), carbon monoxide

**11 Toxicological information****11.1 Information on toxicological effects****Acute Toxicity**

LD50 oral, Rat, 140 mg/kg

**Acute Dermal Toxicity**

LD50, Rabbit, 366 mg/kg

**Other Relevant Toxicity Information**

We are not aware of any toxicology data.

**12 Ecological Information****12.1 Toxicity**

<b>Acute toxicity versus Fishing</b>	Test Type	Species	Method	Exposure Time	Value in standard unit mg/l
	No data available	No data available	No data available	No data available	No data available
<b>Acute toxicity in aquatic plants</b>	Test Type	Species	Method	Exposure Time	Value in standard unit mg/l
	No data available	No data available	No data available	No data available	No data available
<b>Acute toxicity versus Daphnia and others aquatic invertebrates</b>	Test Type	Species	Method	Exposure Time	Value in standard unit mg/l
	No data available	No data available	No data available	No data available	No data available

**12.2 Persistence and degradability**

Remarks : no data available

**12.3 Bioaccumulative potential**

Remarks : 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**

**Advice on Disposal and Packaging***Advice on Disposal*

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and Exhaust air. Dispose of waste according to laws applicable.

*Advice on Packaging*

not available

**14 Transport information**

	<b>Road Transport(ADR/GGVS)</b>	<b>Air Transport(IATA)</b>
<b>14.1 UN number</b>	2396	2396
<b>14.2 UN proper shipping name</b>	METHACRYLALDEHYDE, STABILIZED	METHACRYLALDEHYDE, STABILIZED
<b>14.3 Transport hazard class(es)</b>	3	3
<b>14.4 Packing group</b>	II	II
<b>14.5 Enviromental hazard class (es)</b>	Not Dangerous Goods	Not Dangerous Goods
<b>14.6 Special precautions for user</b>	Transport in bulk or in tanks: see long text.	Not applicable
<b>14.7 Transport in bulk according to Annex 11 of MARPOL and the IBC code</b>	Not applicable	Not applicable

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

not available

Component	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Methacrolein	-----	-----	-----

**15.2 Chemical safety assessment**

No chemical safety assessment has been carried out.

**16 Additional information**

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