

Reviewed on 05/03/2010

1 Identification

- · Product identifier
- Trade name: methanesulphonyl chloride
- Article number: 3008
- CAS Number:
- 124-63-0
- **EC number:** 204-706-1
- **Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.
- *Application of the substance / the preparation Chemical for research, development, manufacturing and analysis*
- Details of the supplier of the safety data sheet

• Manufacturer/Supplier: Biosolve B.V. Leenderweg 78, 5555 CE Valkenswaard, the Netherlands. Tel: +31-(0)40-2071300 Fax:+31-(0)40-2048537 Email: info@biosolve-chemicals.com

Biosolve Chimie 20 Rue Roger Husson, 57260 Dieuze, France Tel: +33 3 878 675 80/81/82/83/84/85 Email: info@biosolvechimie.com

Bio-Lab Ltd. POB 34038, Jerusalem 91340, Israel Tel: +972 -2- 584 1111 Fax: +972 -2- 584 1110 Email: info@biolab-chemicals.com

Information department: Product safety department
Emergency telephone number: During normal opening times: +972 2 584 1111

2 Hazard(s) identification

H300	Fatal if swallowed.
H310	Fatal in contact with skin.
<u>₩</u> é	GHS05 Corrosion
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
< !	GHS07
Н335	May cause respiratory irritation.



Trade name: methanesulphonyl chloride

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Toxic if swallowed.	
Corrosive	
Causes burns.	
🗙 Harmful	
Harmful by inhalation.	
X Irritant	
rritating to respiratory system.	
Harmful to aquatic organisms, may cause long-term adverse effects in the	e aquatic environment.
Information concerning particular hazards for human and environmen	
Label elements	
Labelling according to EU guidelines:	1 1 , 1
The product has been classified and marked in accordance with directive	s on hazardous materials.
Code letter and hazard designation of product:	
Toxic	
Risk phrases: Harmful by inhalation.	
Toxic if swallowed.	
Causes burns. Irritating to respiratory system.	
Harmful to aquatic organisms, may cause long-term adverse effects in the	e aquatic environment.
Safety phrases:	
In case of contact with eyes, rinse immediately with plenty of water and s After contact with skin, wash immediately with plenty of water	eek medical advice.
Wear suitable protective clothing, gloves and eye/face protection.	
In case of accident or if you feel unwell, seek medical advice immediately C lassification system:	(show the label where possible).
NFPA ratings (scale 0 - 4)	
Health = 3	
Fire = 2	
$\frac{3}{0} Reactivity = 0$	
HMIS-ratings (scale 0 - 4)	
HEALTH 3 Health = 3	
FIRE 2 $Fire = 2$ REACTIVITY Reactivity = 0	
Other hazards Results of PBT and vPvB assessment	
PBT: Not applicable.	
PvB: Not applicable.	
Commonistion for formation on income the sector	
Composition/information on ingredients	

CAS No. Description 124-63-0 methanesulphonyl chloride

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· Identification number(s)

• **EC number:** 204-706-1

4 First-aid measures

· Description of first aid measures

• General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

In case of irregular breathing or respiratory arrest provide artificial respiration.

• After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

• *After skin contact: Immediately wash with water and soap and rinse thoroughly.*

• After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

• After swallowing:

Do not induce vomiting; immediately call for medical help.

Drink copious amounts of water and provide fresh air. Immediately call a doctor.

• Most important symptoms and effects, both acute and delayed No further relevant information available.

• Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

• Extinguishing media

Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

• Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent.

Dispose contaminated material as waste according to item 13.

- Ensure adequate ventilation.
- Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

• **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.

• Information about protection against explosions and fires: No special measures required.

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Safety Data Sheet acc. to OSHA HCS

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- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

• Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:



Tightly sealed goggles

Information on basic of	ysical and chemical properties	
General Information	in security in the chemical properties	
Appearance:		
Form:	Liquid	
Color:	Yellow	
Odor:	Strong	



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Odour threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	-33 °C (-27 °F)	
Boiling point/Boiling range:	164 °C (327 °F)	
Flash point:	92 °C (198 °F)	
Flammability (solid, gaseous):	Not applicable.	
Ignition temperature:		
Decomposition temperature:	Not determined.	
Auto igniting:	Not determined.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure at 20 °C (68 °F):	2.79 hPa (2 mm Hg)	
Density at 20 °C (68 °F):	1.48 g/cm ³ (12.351 lbs/gal)	
Relative density	Not determined.	
Vapour density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
Partition coefficient (n-octanol/wate	er): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Other information	No further relevant information available.	

10 Stability and reactivity

· Reactivity

· Chemical stability

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects

• Acute toxicity:

· LD/LC50 values that are relevant for classification:

Oral	LD50	50 mg/kg (rat)
Derma	l LD50	200-2000 mg/kg (rabbit)
Inhalat	ive LC50/4 h	25 mg/l (rat)

• Primary irritant effect:

• on the skin: Caustic effect on skin and mucous membranes.

• on the eye: Strong caustic effect.

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- · Sensitization: No sensitizing effects known.
- Additional toxicological information:

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) Substance is not listed.
- · NTP (National Toxicology Program) Substance is not listed.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Bioaccumulative potential No further relevant information available.
- *Mobility in soil* No further relevant information available.
- Ecotoxical effects:
- · Remark: Harmful to fish
- Additional ecological information:
- · General notes:

Water hazard class 2 (Assessment by list): hazardous for water Do not allow product to reach ground water, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or unneutralized. Danger to drinking water if even small quantities leak into the ground. Harmful to aquatic organisms

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

• Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

UN-Number		
ADR	UN3246	
UN proper shipping name		
ADR	3246 Methanesulfonyl chloride	
Transport hazard class(es)		
DOT		
Class	6.1 Toxic substances.	

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Label	6.1+8	
ADR		
Class	6.1 (TC1) Toxic substances	
Label	6.1+8	
IMDG, IATA		
Class	6.1 Toxic substances.	
Label	6.1+8	
Packing group		
DOT, ADR, IMDG, IATA	Ι	
Environmental hazards:		
Marine pollutant:	No	
Special precautions for user	Warning: Toxic substances	
Danger code (Kemler):	668	
EMS Number:	6.1-02	
Transport in bulk according to Annex		
MARPOL73/78 and the IBC Code	Not applicable.	
UN "Model Regulation":	UN3246, Methanesulfonyl chloride, 6.1 (8), I	

15 Regulatory information

- \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara
- Section 355 (extremely hazardous substances): Substance is not listed.
- Section 313 (Specific toxic chemical listings): Substance is not listed.
- TSCA (Toxic Substances Control Act): Substance is listed.
- Proposition 65
- · Chemicals known to cause cancer: Substance is not listed.
- Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- · Chemicals known to cause developmental toxicity: Substance is not listed.
- · Carcinogenic categories
- · EPA (Environmental Protection Agency) Substance is not listed.
- TLV (Threshold Limit Value established by ACGIH) Substance is not listed.
- · NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.
- · Product related hazard informations:

The product has been classified and marked in accordance with directives on hazardous materials.

• Hazard symbols:



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· Risk phrases:

Harmful by inhalation. Toxic if swallowed. Causes burns. Irritating to respiratory system. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· Safety phrases:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of water Wear suitable protective clothing, gloves and eye/face protection.

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Chemical safety assessment: A Chemical Safety Assessment has been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing MSDS: Product safety department

· Contact: Product safety department Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent