

Revised on: 17.03.2020

PMSF for biochemistry

Created on: 17.03.2020

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name: PMSF for biochemistry

Article number: 1283

REACH Registration Number:

A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

CAS-No.: 329-98-6

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

No further relevant information available.

Application of the substance / the mixture:

Reagent for development and research

1.3. Details of the supplier of the safety data sheet

Manufacturer/Supplier:

neoFroxx GmbH
Marie-Curie-Str. 3
D-64683 Einhausen
info@neofroxx.com

Further information obtainable from:

Dep. Quality Control

1.4. Emergency telephone number

+49 (6251) 989 24 - 0 (during normal business hours)

2. Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008:

Acute toxicity, Category 3, Oral, H301

Skin corrosion, Category 1B, H314

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

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008:

Hazard pictograms:



Signal word: Danger

Hazard statements:

H301 Toxic if swallowed.

H314 Causes severe skin burns and eye damage.

Precautionary statements:

Prevention

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

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Response

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P310 IF exposed or concerned: immediately call a POISON CENTER or doctor/physician.

Contains: phenylmethanesulfonyl fluoride

CAS-No.: 329-98-6

2.3. Other hazards

None known.

3. Composition / information on ingredients

3.1. Substance

Formula: C₇H₇FO₂S (Hill)

EC-No.: 206-350-2

Molar mass: 174,18 g/mol

Hazardous components (REGULATION (EC) No 1272/2008):

Chemical name (Concentration):

phenylmethanesulfonyl fluoride (<= 100 %)

CAS-No.: 329-98-6

Registration number:

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Classification:

Acute toxicity, Category 3, H301

Skin corrosion, Category 1B, H314

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

3.2. Mixture

Not applicable

4. First aid measures

4.1. Description of first aid measures

General advice:

First aider needs to protect himself.

After inhalation: fresh air. Call in physician.

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately.

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.

After swallowing: give water to drink (two glasses at most). Seek medical advice immediately. In exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer activated charcoal (20 - 40 g in a 10% slurry) and consult a doctor as quickly as possible. Do not attempt to neutralise.

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4.2. Most important symptoms and effects, both acute and delayed
Irritation and corrosion, Cough, Shortness of breath
Risk of blindness!

4.3. Indication of any immediate medical attention and special treatment needed
No information available.

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water, Foam, Carbon dioxide (CO₂), Dry powder

Unsuitable extinguishing media:

For this substance/mixture no limitations of extinguishing agents are given.

5.2. Special hazards arising from the substance or mixture

Combustible.

Development of hazardous combustion gases or vapours possible in the event of fire.

Fire may cause evolution of:

Hydrogen fluoride, Sulphur oxides

5.3. Advice for firefighters

Special protective equipment for firefighters:

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

Further information:

Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapours, aerosols. Avoid substance contact.

Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders:

Protective equipment see section 8.

6.2. Environmental precautions:

Do not let product enter drains.

6.3. Methods and material for containment and cleaning up:

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4. Reference to other sections

See Section 13 for disposal information.

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7. Handling and storage

7.1. Precautions for safe handling

Advice on safe handling:

Observe label precautions.

Hygiene measures:

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions:

Tightly closed. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorised persons.

Recommended storage temperature see product label.

7.3. Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8. Exposure controls / personal protection

8.1. Control parameters

8.2. Exposure controls

Engineering measures:

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

Individual protection measures:

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Eye/face protection:

Tightly fitting safety goggles

Hand protection:

full contact::

Glove material: polychloroprene

Glove thickness: 0,11 mm

Break through time: 480 min

splash contact::

Glove material: Nitrile rubber

Glove thickness: 0,11 mm

Break through time: 480 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example KCL 741 Dermatril® L (full contact), KCL 741 Dermatril® L (splash contact).

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

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Other protective equipment:

protective clothing

Respiratory protection:

required when dusts are generated.

Recommended Filter type: Filter P 3 (acc. to DIN 3181) for solid and liquid particles of toxic and very toxic substances

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Environmental exposure controls:

Do not let product enter drains.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form: Crystalline solid

Colour: off-white

Odour: No strong odour known.

Odour Threshold: No information available.

pH: 3,9 - 4,4 at 50 g/l 25 °C

Melting point: 91 - 94 °C at 1.013 hPa

Boiling point/boiling range: 80 - 85 °C at 0,4 hPa

Flash point: No information available.

Evaporation rate: No information available.

Flammability (solid, gas): No information available.

Lower explosion limit: No information available.

Upper explosion limit: No information available.

Vapour pressure: No information available.

Relative vapour density: No information available.

Density: 0,792 g/cm³ at 20 °C

Relative density: No information available.

Water solubility: at 20 °C slightly soluble, Decomposes in contact with water.

Partition coefficient: n-octanol/water: log Pow: 2,7 (25 °C)

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Bioaccumulation is not expected.

Auto-ignition temperature: No information available.

Decomposition temperature: > 180 °C

Viscosity, dynamic: No information available.

Explosive properties: Not classified as explosive.

Oxidizing properties: none

9.2. Other information

none

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10. Stability and reactivity

10.1. Reactivity

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

10.2. Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

10.3. Possibility of hazardous reactions

Violent reactions possible with:

strong oxidising agents

10.4. Conditions to avoid

no information available

10.5. Incompatible materials:

no information available

10.6. Hazardous decomposition products:

in the event of fire: See section 5.

11. Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity:

LD50 Mouse: 200 mg/kg

(RTECS)

Symptoms: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.

Acute inhalation toxicity:

Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages:., damage of respiratory tract

Acute dermal toxicity:

This information is not available.

Skin irritation:

Causes burns.

Eye irritation:

Causes serious eye damage.

Sensitisation

This information is not available.

Germ cell mutagenicity:

This information is not available.

Carcinogenicity:

This information is not available.

Reproductive toxicity:

This information is not available.

Teratogenicity:

This information is not available.

Specific target organ toxicity - single exposure:

This information is not available.

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Specific target organ toxicity - repeated exposure:

This information is not available.

Aspiration hazard:

This information is not available.

11.2. Further information

After absorption:

We have no description of any symptoms of toxicity.

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

12. Ecological information

12.1. Toxicity

No information available.

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

Partition coefficient: n-octanol/water:

log Pow: 2,7 (25 °C)

EPI Suite™

Bioaccumulation is not expected.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

12.6. Other adverse effects

Discharge into the environment must be avoided.

13. Disposal considerations

13.1. Waste treatment methods

Recommendation:

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

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agents: Water, if necessary together with cleansing agents.

14. Transport information

Land transport (ADR/RID):

14.1 UN number	UN 2923
14.2 Proper shipping name	CORROSIVE SOLID, TOXIC, N.O.S. (PHENYLMETHYLSULFONYL FLUORIDE)
14.3 Class	8 (6.1)
14.4 Packing group	II
14.5 Environmentally hazardous	--
14.6 Special precautions for user	yes

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Tunnel restriction code	E
Inland waterway transport (ADN):	
Not relevant	
Air transport (IATA):	
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14.3 Class	8 (6.1)
14.4 Packing group	II
14.5 Environmentally hazardous	--
14.6 Special precautions for user	no
Sea transport (IMDG):	
14.1 UN number	UN 2923
14.2 Proper shipping name	CORROSIVE SOLID, TOXIC, N.O.S. (PHENYLMETHYLSULFONYL FLUORIDE)
14.3 Class	8 (6.1)
14.4 Packing group	II
14.5 Environmentally hazardous	--
14.6 Special precautions for user	yes
EmS	F-A S-B
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:	
Not relevant	

15. Regulatory information

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

EU regulations:

Major Accident Hazard Legislation:

SEVESO III

ACUTE TOXIC

H2

Quantity 1: 50 t

Quantity 2: 200 t

Occupational restrictions:

Take note of Dir 94/33/EC on the protection of young people at work. Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable.

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer:

not regulated

Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC:

not regulated

Substances of very high concern (SVHC):

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of ≥ 0.1 % (w/w).

National legislation:

Storage class: 6.1C

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15.2. Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

16. Other information

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

H301 Toxic if swallowed.

H314 Causes severe skin burns and eye damage.

Training advice:

Provide adequate information, instruction and training for operators.

Labelling:

Signal word: Danger

Hazard statements:

H301 Toxic if swallowed.

H314 Causes severe skin burns and eye damage.

Precautionary statements:

Prevention

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P310 IF exposed or concerned: immediately call a POISON CENTER or doctor/physician.

Contains: phenylmethanesulfonyl fluoride

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.

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)

ICAO: International Civil Aviation Organisation

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

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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Material Safety Data Sheet

According to 1907/2006/EC, Article 31

Page: 10 / 10

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PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Met. Corr.1: Corrosive to metals – Category 1

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3