

Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)
Classifications according to Regulation (EC) No 1272/2008.
Printdate 29 May 2024

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product name:

Pyflubumide

1.1. Catalog No.:

690062

1.2. Relevant identified uses of the substance or mixture

Identified: Laboratory chemical
uses: R&D

1.3. Uses advised against:

HPC Standards GmbH
Am Wieseneck 7

04451 Cunnersdorf
Deutschland

Tel. +49 34291 3372-36
Fax. +49 34291 3372-39
contact@hpc-standards.com

1.4. Emergency telephone number

HPC Standards Tel. +49 34291 3372-36
This number is only available during office hours.

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008
Acute toxicity - Oral Category 4 - (H302)
Acute toxicity - Dermal Category 4 - (H312)
Acute toxicity - Inhalation (Dusts/Mists) Category 4 - (H332)
Serious eye damage/eye irritation Category 2 - (H319)
Carcinogenicity Category 1B - (H350)
Reproductive toxicity Category 1B - (H360D)
Specific target organ toxicity -- repeated exposure Category 2 - (H373)
Acute aquatic toxicity Category 1 - (H400)
Chronic aquatic toxicity Category 1 - (H410)

2.2. Label elements

2.2.1. Pictogram



2.2.2.

Signal word Danger

Hazard-determining components of labelling:

3-isobutyl-N-isobutyryl-1,3,5-trimethyl-4-[2,2,2-trifluoro-1-methoxy-1-(trifluoromethyl)ethyl]pyrazole-4-carboxanilide

Hazard statements

Hazard statements

H302 - Harmful if swallowed

H312 - Harmful in contact with skin

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

H350 - May cause cancer

H360D - May damage the unborn child

H373 - May cause damage to organs through prolonged or repeated exposure

H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements

P201 - Obtain special instructions before use

P260 - Do not breathe dust/fume/gas/mist/vapours/spray

P273 - Avoid release to the environment

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

P321 - Specific treatment (see supplemental first aid instructions on this label)

P391 - Collect spillage

regulations.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1.1. Formula

C₂₅H₃₁F₆N₃O₃

3.1.2. Molecular Weight (g/mol)

535.52

3.1.3. CAS-No.

926914-55-8

4. FIRST AID MEASURES

4.1 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.

After inhalation: Supply fresh air; consult doctor in case of complaints.

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: If symptoms persist consult doctor.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing agents:

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

For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

5.3 Advice for firefighters

Protective equipment: Mouth respiratory protective device.

Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

Remove persons from danger area.

Wear protective equipment. Keep unprotected persons away.

6.2 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.

6.3 Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

6.4 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

7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
Information about fire - and explosion protection: Keep respiratory protective device available.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

Store only in the original receptacle.

Store in cool, dry conditions in well sealed receptacles.

Information about storage in one common storage facility: Store away from foodstuffs.

Further information about storage conditions:

Protect from frost.

Keep container tightly sealed.

2-10 °C

Storage class: 6.1 D

7.3 Specific end use(s) No further relevant information available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace: Not required.

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

Do not eat, drink, smoke or sniff while working.

Storing food in the working area is prohibited.

Respiratory protection: Not necessary if room is well-ventilated.

Protection of hands:

Protective gloves

Material of gloves

Use chemical resistant gloves. In case of prolonged immersion or frequently repeated contact use gloves made of the materials: nitrile rubber (thickness ³ 0.38 mm, breakthrough time > 480 min).

Eye protection: Safety glasses

The protective safety glasses to be used must comply with the specifications of the EC directive 89/686/EEC and the resultant standard EN166.

Body protection: Protective work clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form: Crystalline powder

Colour: White

Odour: Characteristic

Odour threshold: Not determined.

pH-value: Not applicable.

Change in condition

Melting point/freezing point: Undetermined.

Initial boiling point and boiling range: Undetermined.

Flash point: Not applicable.

Flammability (solid, gas): Not applicable.

Ignition temperature: Not determined.

Decomposition temperature: Not determined.

Auto-ignition temperature: Product is not selfigniting.

Explosive properties: Not determined.

Explosion limits:
Lower: Not determined.
Upper: Not determined.
Vapour pressure: Not applicable.
Density: Not determined.
Relative density Not determined.
Vapour density Not applicable.
Evaporation rate Not applicable.
Solubility in / Miscibility with
water: Not determined.
Partition coefficient: n-octanol/water: Not determined.
Viscosity:
Dynamic: Not applicable.
Kinematic: Not applicable.
9.2 Other information No further relevant information available.

10. STABILITY AND REACTIVITY

10.1 Reactivity No further relevant information available.
10.2 Chemical stability
Thermal decomposition / conditions to be avoided:
No decomposition if used according to specifications.
10.3 Possibility of hazardous reactions No dangerous reactions known.
10.4 Conditions to avoid
See "Fire Fighting measures".
Protect from heat and direct sunlight.
10.5 Incompatible materials: Oxidising agents.
10.6 Hazardous decomposition products:
Nitrogen oxides (NO_x)
Carbon monoxide and carbon dioxide
Hydrogen fluoride

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects
Acute toxicity Based on available data, the classification criteria are not met.
LD/LC50 values relevant for classification:
926914-55-8 3-isobutyl-N-isobutyryl-1,3,5-trimethyl-4-[2,2,2-trifluoro-1-methoxy-1-(trifluoromethyl)ethyl]pyrazole-4-carboxanilide
Oral LD50 >2,000 mg/kg (rat)
Dermal LD50 >2,000 mg/kg (rat)
Primary irritant effect:
Skin corrosion/irritation Based on available data, the classification criteria are not met.
Serious eye damage/irritation Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
Germ cell mutagenicity Based on available data, the classification criteria are not met.
Carcinogenicity Based on available data, the classification criteria are not met.
Reproductive toxicity Based on available data, the classification criteria are not met.
STOT-single exposure
Causes damage to organs.
STOT-repeated exposure
Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard Based on available the classification criteria are not met

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic toxicity:

926914-55-8 3-isobutyl-N-isobutyryl-1,3,5-trimethyl-4-[2,2,2-trifluoro-1-methoxy-1-(trifluoromethyl)ethyl]pyrazole-4-carboxanilide
LC50/96 h 0.61 mg/l (fish)

EC50/72h \geq 0.65 mg/L (Algae)

EC50/48h 0.16 mg/L (crustacea)

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

Ecotoxicological effects:

Remark: Very toxic for fish

Additional ecological information:

General notes:

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

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.

Contact waste processors for recycling information.

Uncleaned packaging:

Recommendation:

Disposal must be made according to official regulations.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

14. TRANSPORT INFORMATION

14.1 UN-Number

ADR, IMDG, IATA UN3077

14.2 UN proper shipping name

ADR 3077 ENVIRONMENTALLY HAZARDOUS

SUBSTANCE, SOLID, N.O.S. (3-isobutyl-Nisobutyryl-

1,3,5-trimethyl-4-[2,2,2-trifluoro-1-

methoxy-1-(trifluoromethyl)ethyl]pyrazole-4-

carboxanilide)

IMDG ENVIRONMENTALLY HAZARDOUS

SUBSTANCE, SOLID, N.O.S. (3-isobutyl-Nisobutyryl-

1,3,5-trimethyl-4-[2,2,2-trifluoro-1-

methoxy-1-(trifluoromethyl)ethyl]pyrazole-4-

carboxanilide), MARINE POLLUTANT

IATA ENVIRONMENTALLY HAZARDOUS

SUBSTANCE, SOLID, N.O.S. (3-isobutyl-Nisobutyryl-

1,3,5-trimethyl-4-[2,2,2-trifluoro-1-

methoxy-1-(trifluoromethyl)ethyl]pyrazole-4-

carboxanilide)

14.3 Transport hazard class(es)

ADR, IMDG

Class 9 Miscellaneous dangerous substances and articles.

Label 9

IATA

14.4 Packing group
ADR, IMDG, IATA III

14.5 Environmental hazards:

Marine pollutant: Symbol (fish and tree)

Special marking (ADR): Symbol (fish and tree)

14.6 Special precautions for user Warning: Miscellaneous dangerous substances and articles.

Hazard identification number (Kemler code): 90

EMS Number: F-A,S-F

Stowage Category A

Stowage Code SW23 When transported in BK3 bulk container,
see 7.6.2.12 and 7.7.3.9.

14.7 Transport in bulk according to Annex II
of Marpol and the IBC Code Not applicable.

Transport/Additional information: Single or combination packagings containing a net quantity per single or inner packaging of 5lt/5kg or less of UN3082/UN3077, are not subject to the provisions of ADR (Special Provision 375), IMDG (2.10.2.7) or IATA (special provision 197) by way of a pack size exemption.

ADR

Limited quantities (LQ) 5 kg

Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging: 30 g

Maximum net quantity per outer packaging: 1000 g

Transport category 3

Tunnel restriction code -

IMDG

Limited quantities (LQ) 5 kg

Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging: 30 g

Maximum net quantity per outer packaging: 1000 g

UN Model Regulation: UN 3077 ENVIRONMENTALLY HAZARDOUS

SUBSTANCE, SOLID, N.O.S. (3-ISOBUTYL-NISOBUTYRYL-

1,3,5-TRIMETHYL-4 - [2,2,2-

TRIFLUORO-1-METHOXY - 1 -

(TRIFLUOROMETHYL)ETHYL]PYRAZOLE-4-CARBOXANILIDE), 9, III

15. REGULATORY INFORMATION

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

Directive 2012/18/EU

Named dangerous substances - ANNEX I Substance is not listed.

Seveso category

H3 STOT SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE

E1 Hazardous to the Aquatic Environment

Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t

Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. OTHER INFORMATION

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. For lab use only!