

Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)
Classifications according to Regulation (EC) No 1272/2008.
Printdate 15 Jul 2024

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

1.1. Product name:

Heptadecafluorooctanesulfonic acid potassium salt

1.1. Catalog No.:

675970

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 [EU-GHS/CLP]
Carcinogenicity (Category 2)
Reproductive toxicity (Category 1B)
Specific target organ toxicity - repeated exposure (Category 1)
Acute toxicity, Inhalation (Category 4)
Acute toxicity, Oral (Category 4)
Effects on or via lactation
Chronic aquatic toxicity (Category 2)
Classification according to EU Directives 67/548/EEC or 1999/45/EC
Limited evidence of a carcinogenic effect. May cause harm to the unborn child. Toxic: danger of serious damage to health by prolonged exposure if swallowed. Harmful by inhalation and if swallowed. May cause harm to breastfed babies. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2. Label elements

2.2.1. Pictogram



- 2.2.2.**
Signal word Danger
Hazard statement(s)
H302 Harmful if swallowed.
H332 Harmful if inhaled.
H351 Suspected of causing cancer.
H360 May damage fertility or the unborn child.
H362 May cause harm to breast-fed children H372 Causes damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.
Precautionary statement(s)
P201 Obtain special instructions before use.
P263 Avoid contact during pregnancy/ while nursing.
P273 Avoid release to the environment.
P281 Use personal protective equipment as required.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
Supplemental Hazard
Statements
none
Restricted to professional users.
2.3 Other hazards - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances
Synonyms : Perfluorooctanesulfonic acidpotassium salt
Potassium heptadecafluoro-1-octanesulfonate
Formula : C₈F₁₇KO₃S
Molecular Weight : 538,22 g/mol
Component Concentration
Potassium heptadecafluorooctane-1-sulphonate
CAS-No.
EC-No.
2795-39-3
220-527-1
-

3.1.1. Formula
C₈F₁₇KO₃S

3.1.2. Molecular Weight (g/mol)
538.22

3.1.3. CAS-No.

2795-39-3

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. Take victim immediately to hospital. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

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

4.3 Indication of any immediate medical attention and special treatment needed

no data available

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides, Hydrogen fluoride, Sulphur oxides, Potassium oxides

Carbon oxides, Sulphur oxides, Hydrogen fluoride, Potassium oxides

5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information

no data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. 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 contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

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

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection

Face shield and safety glasses 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.

Body Protection

Complete suit protecting against chemicals, 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 particle respirator type N99 (US) or type P2 (EN 143) 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: crystalline

Colour: beige

b) Odour odourless

c) Odour Threshold no data available

d) pH 6 at 100 g/l at 20 °C

e) Melting point/freezing

point

Melting point/range: 277 - 280 °C

f) Initial boiling point and

boiling range

no data available

g) Flash point no data available

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

l) Vapour density no data available

m) Relative density 0,700 g/cm³ n) Water solubility slightly soluble

o) Partition coefficient: noctanol/

water
log Pow: -1,08
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. STABILITY AND REACTIVITY

10.1 Reactivity
no data available
10.2 Chemical stability
no data available
10.3 Possibility of hazardous reactions
no data available
10.4 Conditions to avoid
no data available
10.5 Incompatible materials
Strong oxidizing agents
10.6 Hazardous decomposition products
Other decomposition products - no data available

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects
Acute toxicity
LD50 Oral - rat - male - 199 - 318 mg/kg
LD50 Dermal - rabbit - > 5.000 mg/kg
Skin corrosion/irritation
Serious eye damage/eye irritation
no data available
Respiratory or skin sensitization
no data available
Germ cell mutagenicity
Genotoxicity in vitro - Ames test - Not mutagenic in Ames Test.
Carcinogenicity
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity
Reproductive toxicity - rat - female - Oral
Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus). Effects on Newborn: Viability index (e.g., # alive at day 4 per # born alive). Maternal Effects: Parturition. Specific target organ toxicity - single exposure
no data available
Specific target organ toxicity - repeated exposure
no data available
Aspiration hazard
no data available
Potential health effects
Inhalation Harmful if inhaled. May cause respiratory tract irritation.
Ingestion Toxic if swallowed.
Skin May be harmful if absorbed through skin. May cause skin irritation.
Eyes Causes eye irritation.
Additional Information

RTECS: RG9701850

12. ECOLOGICAL INFORMATION

- 12.1 Toxicity
 - Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 8 - 11 mg/l - 96,0 h
 - Toxicity to daphnia and other aquatic invertebrates
 - EC50 - Daphnia magna (Water flea) - 33 - 91 mg/l - 48 h
- 12.2 Persistence and degradability
 - Biodegradability Biotic/Aerobic
 - Result: - Not readily biodegradable.
- 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
 - Toxic to aquatic life with long lasting effects

13. DISPOSAL CONSIDERATIONS

- 13.1 Waste treatment methods
 - Product
 - Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
 - Contaminated packaging
 - Dispose of as unused product.

14. TRANSPORT INFORMATION

- 14.1 UN number
 - ADR/RID: 2811 IMDG: 2811 IATA: 2811
- 14.2 UN proper shipping name
 - ADR/RID: TOXIC SOLID, ORGANIC, N.O.S. (Potassium heptadecafluorooctane-1-sulphonate)
 - IMDG: TOXIC SOLID, ORGANIC, N.O.S. (Potassium heptadecafluorooctane-1-sulphonate)
 - IATA: Toxic solid, organic, n.o.s. (Potassium heptadecafluorooctane-1-sulphonate)
- 14.3 Transport hazard class(es)
 - ADR/RID: 6.1 IMDG: 6.1 IATA: 6.1
- 14.4 Packaging group
 - ADR/RID: III IMDG: III IATA: III
- 14.5 Environmental hazards
 - ADR/RID: yes IMDG Marine pollutant: yes IATA: no
- 14.6 Special precautions for user
 - no data available

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

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!