Section 1. Chemical Product and Company Identification

Product name: PF-750, Carboxylic Acid
Product No.: PK-PF-750-1-01 / PK-PF-750-05
Supplier: PromoCell GmbH
Sickingerstrasse 63/65
69126 Heidelberg
Germany
Tel: +49-6221-64934-0
Fax: +49-6221-64934-40

Intended Use: Contact supplier for specific applications

Section 2. Composition / information on ingredients

Substance/Preparation: Substance
Purity Classification: See batch specific Certificate of Analysis
Xi, R41

Section 3. Hazards Identification

United States
Review the most current and approved institutional guideline, protocol, standard operating procedure(s) and MSDS(s) for the proper handling of institutional materials/equipment associated with the use of this product.

Emergency Overview: Warning! CAUSE SEVERE EYE IRRITATION.
Avoid contact with eyes. Wash thoroughly after handling.

Routes of Entry: Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects:
- Eyes: Severely irritating to the eyes.
- Skin: No known significant effects or critical hazards.
- Inhalation: No known significant effects or critical hazards.
- Ingestion: No known significant effects or critical hazards.

Potential chronic health effects:
Carcinogenic Effects Data: Not available.
Mutagenic Effects: Not available.
Teratogenic Effects: Not available.
Repeated or prolonged exposure is not known to aggravate medical condition.

Medical Conditions Aggravated by Overexposure:
Overexposure/Sign/Symptoms: Not available.

Europe
Classification:
- Physicochemical hazards: Not applicable.
- Human health hazards: Risk of serious damage to eyes.
- Environmental hazards: Not applicable.

See Toxicological Information (section 11)

Section 4. First aid measures

Notice to Reader: Get immediate medical attention.

Effects and symptoms:
- Inhalation: Not available.
- Ingestion: Not available.
- Skin Contact: Not available.
- Eye Contact: Very hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness, watering, and itching.
Section 5. Fire-fighting measures

Flammability of the Product: May be combustible at high temperature.
Flash Points: Not available.
Fire Hazard in Presence of Various Substances: Not available.
Fire Fighting Media and Instructions: Use an extinguishing agent suitable for surrounding fires.
Protective Clothing (Fire): Be sure to use an approved/certified respirator or equivalent.
Hazardous thermal (de)composition products: These products are carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂…), sulfur oxides (SO₂, SO₃…). Some metallic oxides.

Section 6. Accidental release measures

Personal Precautions: Splash goggles. Lab coat.
Environmental Precautions and Clean-up Methods: Use a shovel to put the material into a convenient waste disposal container.
Small Spill and Leak: Use appropriate tools to put the spilled solid in a convenient waste disposal container.

Section 7. Handling and storage

Handling: Avoid contact with eyes. Wash thoroughly after handling.
Storage: Refrigeration required (4°C). Freezer storage recommended (-20 °C). Desiccation recommended.
Intended Use: Contact supplier for specific applications.

Section 8. Exposure controls / personal protection

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fumes or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection: Use personal protective equipment to prevent exposure.
Eyes: Splash goggles.
Body: Lab coat.
Hands: Gloves.
Respiratory: Respirator is not needed under normal and intended conditions of use, if exposures are kept below established limits.

Protective Clothing (Pictograms): [Diagram of protective clothing]
Section 9. Physical and chemical properties

Physical state and appearance: Solid.
Color: Green.
Odor: Odorless.
Taste: Not available.

Molecular Weight: 310.07 g/mol
Formula: C₆H₁₀NO₂₄S₂•2Na
Properties: Soluble in H₂O, EtOH, DMF, DMSO.

Section 10. Stability and reactivity

Stability and Reactivity: The product is stable if stored unopened and cooled.
Conditions to avoid: Sensitive to light and humidity.
Materials to avoid: Amine containing buffers and reducing agents.
Hazardous Decomposition Products: Not available.

Section 11. Toxicological information

Toxicity to Animals: PF-750, Carboxylic Acid
LD₅₀: Not available.
LC₅₀: Not available.
Not available.
Not considered to be toxic for humans.
Potentially harmful. The complete properties have not been investigated. However, similar compounds are known to be chemically reactive with proteins and other biochemicals and should be treated as potentially hazardous.
Not available.

Chronic Effects on Humans: Not available.
Other Toxic Effects on Humans: Not available.
Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.
Special Remarks on Other Toxic Effects on Humans: Not available.
Carcinogenicity: Not available.
Mutagenicity: Not available.
Reproductive toxicity: Not available.

Over exposure signs/symptoms:
Inhalation: No known significant effects or critical hazards.
Ingestion: No known significant effects or critical hazards.
Skin: No known significant effects or critical hazards.

Section 12. Ecological information

Quantitative data on the ecological effect of this product are not available. Do not allow to enter waters, waste water, or soil.

Section 13. Disposal considerations

Waste Stream: Not available.
Methods of disposal: Not available.
The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional/local authority requirements.

European waste catalogue (EWC):
Hazardous waste: Not available.
Denmark - Carcinogenic waste: Not available.
Denmark - Waste card number: Not available.
Denmark - Waste group: Not available.
Switzerland - Waste code: Not available.

The classification of the product may meet the criteria for a hazardous waste.
Section 14. Transport information

Contact the supplier for all information regarding the proper transportation method for this material.

Section 15. Regulatory information

Label requirements (Europe)

R41 - Risk of serious damage to eyes.
S22 - Do not breathe dust.
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S39 - Wear eye/face protection

HCS Classification

Irritating material

U.S. Federal Regulations

TSO: No products were found.
SARA 302/304/311/312 extremely hazardous substances: No products were found.
SARA 302/304 emergency planning and notification: No products were found.
SARA 302/304/311/312 hazardous chemicals: No products were found.
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.
Clean Water Act (CWA) 307: No products were found.
Clean Water Act (CWA) 311: No products were found.
Clean air act (CAA) 112 accidental release prevention: No products were found.
Clean air act (CAA) 112 regulated flammable substances: No products were found.
Clean air act (CAA) 112 regulated toxic substances: No products were found.

State regulations

No products were found.

WHMIS (Canada)

Not controlled under WHMIS (Canada).

International Regulations

EINECS
Not available.

DSCL (EEC)
R41 - Risk of serious damage to eyes.

International Lists

No products were found.

State Regulations

No products were found.

Section 16. Other information

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National Fire Protection Association (U.S.A.)

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Flammability

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Spontaneous combustion

References

Not available.

R41 - Risk of serious damage to eyes.

Xi - Irritant

Europe

Full text of classifications referred to in sections 2 and 3 - Europe

Full text of classifications referred to in sections 2 and 3 - Europe

Intended Use

Contact supplier for specific applications.

This material is sold for research purposes only. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. The above information is correct to the best of our knowledge. Users should make independent decisions regarding completeness of the information based on all sources available. PromoCell shall not be held liable for any damage resulting from handling or contact with the above product.