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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

Sickingenstrasse 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 See batch specific Certificate of Analysis

Classification Xi, R41

Section 3. Hazards identification

1000

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

Severely irritating to the eyes. Eyes

Śkin 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 CARCINOGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available.

by Overexposure

Medical Conditions Aggravated Repeated or prolonged exposure is not known to aggravate medical condition.

Overexposure /Signs/Symptoms Not available.

Europe

Classification Xi, R41

Physical/chemical 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.

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Aggravating conditions Repeated or prolonged exposure is not known to aggravate medical condition.

First Aid-Measures

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get Inhalation

medical attention immediately.

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by Indestion

mouth to an unconscious person. Get medical attention if symptoms appear.

Skin Contact In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing

and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical

Eye Contact In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get

medical attention immediately.

Notes to Physician Not available. Protection of first-alders Not available.

Section 5. Fire-fighting measures

Flammability of the Product May be combustible at high temperature.

Flash Points Not available.

Fire Hazards in Presence of Not available.

Various Substances

Fire Fighting Media and Use an extinguishing agent suitable for surrounding fires. Instructions

Protective Clothing (Fire) Be sure to use an approved/certified respirator or equivalent.

Hazardous thermal These products are carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂...), sulfur oxides (SO₂,

(de)composition products SO3...). Some metallic oxides.

Section 6. Accidental release measures

Personal precautions Splash goggles. Lab coat.

Environmental Precautions and

Use a shovel to put the material into a convenient waste disposal container.

Glean-up Methods

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.

Packaging Materials

Suitable / Not suitable Use original container.

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, iumeor mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection

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)







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Section 9. Physical and chemical properties

Physical state and Solid.

appearance

Color Green

Odor Odorless.

Molecular Weight 931.07 g/mol

Molecular Formula C43H52N2O12S3 *2Na Dispersion See solubility in water. Taste Not available.

Properties

Solubility 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 Not available. **Products**

Section 11. Toxicological information

Toxicity to Animals PF-750, Carboxylic Acid LD50: Not available.

LC50: Not available.

Chronic Effects on Humans Not available.

Other Toxic Effects on Humans Not considered to be toxic for humans.

Special Remarks on Toxicity to Potentially harmful. The complete properties have not been investigated. However, similar compounds are known to be chemically reactive with proteins and other biochemicals and

Animals

should be treated as potentially hazardous.

Special Remarks on Chronic Not available. Effects on Humans

Special Flemarks on Other Toxic Not available.

Effects on Humans

Carcinogenicity No known significant effects or critical hazards. Mutagenicity No known significant effects or critical hazards.

Reproductive toxicity No known significant effects or critical hazards.

Over-exposure signs/symptoms

Inhalation No known significant effects or critical hazards. Ingestion No known significant effects or critical hazards. 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,

Section 13. Disposal considerations

Waste Stream Not available.

Methods of disposal 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)

Not available.

Hazardous waste

The classification of the product may meet the criteria for a hazardous waste.

Denmark -- Carcinogenic waste Not available.

Denmark - Waste card number

Denmark - Waste group Not available.

Not available.

Sweden - thermoset plastic waste. Not available.

Sweden - Waste group Not available. Austria - Waste catalogue Not available.

Norway - Waste number

Not available. The classification of the product may meet the criteria for a hazardous waste.

Norway - Hazardous waste Switzerland - Waste code Not available.

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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

S39- Wear eye/face protection



HCS Classification Irritating material

U.S. Federal Regulations TSCA: 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

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.

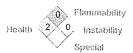
DSCL (EEC) R41- Risk of serious damage to eyes.

International Lists State Regulations No products were found. No products were found.

Section 16. Other information

Hazardous Material Information (U.S.A.) Health. Fire hazard 0 Reactivity 0 Personal protection

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



References Not available.

to in sections 2 and 3 -

Full text of R phrases referred R41- Risk of serious damage to eyes.

Europe Full text of classifications Xi - Irritant

referred to in sections 2 and 3

- Europe

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