

Safety data sheet: PF-750, Carboxylic Acid

Date of issue: 22.01.2010

page 1 of 4

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

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 CARCINOGENIC EFFECTS: Not available.
MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.
Medical Conditions Aggravated by Overexposure 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.

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

First Aid-Measures

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

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

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-aiders 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 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.

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

Personal Protection

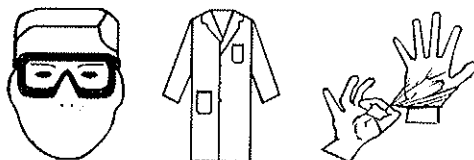
Eyes Splash goggles.

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)



Section 9. Physical and chemical properties

<i>Physical state and appearance</i>	Solid.	<i>Color</i>	Green	<i>Odor</i>	Odorless.
<i>Molecular Weight</i>	931.07 g/mol	<i>Taste</i>	Not available.		
<i>Molecular Formula</i>	C ₄₃ H ₅₂ N ₂ O ₁₂ S ₃ *2Na				
<i>Dispersion</i>	See solubility in water.				
<i>Properties</i>					
<i>Solubility</i>	Soluble in H ₂ O EtOH, DMF, DMSO.				

Section 10. Stability and reactivity

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

Section 11. Toxicological information

<i>Toxicity to Animals</i>	PF-750, Carboxylic Acid LD50: Not available. LC50: Not available.
<i>Chronic Effects on Humans</i>	Not available.
<i>Other Toxic Effects on Humans</i>	Not considered to be toxic for humans.
<i>Special Remarks on Toxicity to Animals</i>	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.
<i>Special Remarks on Chronic Effects on Humans</i>	Not available.
<i>Special Remarks on Other Toxic Effects on Humans</i>	Not available.
<i>Carcinogenicity</i>	No known significant effects or critical hazards.
<i>Mutagenicity</i>	No known significant effects or critical hazards.
<i>Reproductive toxicity</i>	No known significant effects or critical hazards.
<i>Over-exposure signs/symptoms</i>	
<i>Inhalation</i>	No known significant effects or critical hazards.
<i>Ingestion</i>	No known significant effects or critical hazards.
<i>Skin</i>	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

<i>Waste Stream</i>	Not available.
<i>Methods of disposal</i>	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.
<i>European waste catalogue (EWC)</i>	Not available.
<i>Hazardous waste</i>	The classification of the product may meet the criteria for a hazardous waste.
<i>Denmark -- Carcinogenic waste</i>	Not available.
<i>Denmark - Waste card number</i>	Not available.
<i>Denmark - Waste group</i>	Not available.
<i>Sweden - thermoset plastic waste</i>	Not available.
<i>Sweden - Waste group</i>	Not available.
<i>Austria - Waste catalogue</i>	Not available.
<i>Norway - Waste number</i>	Not available.
<i>Norway - Hazardous waste</i>	The classification of the product may meet the criteria for a hazardous waste.
<i>Switzerland - Waste code</i>	Not available.

Safety data sheet: PF-750, Carboxylic Acid

Date of issue: 22.01.2010

page 4 of 4

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 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 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

Hazardous Material Information (U.S.A.)

Health	1
Fire hazard	0
Reactivity	0
Personal protection	C

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

Health	2	0	0
	Flammability	Instability	Special

References Not available.

Full text of R phrases referred to in sections 2 and 3 - Europe R41- Risk of serious damage to eyes.

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

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.