

Conforms to 93/112/EC and ISO 11014-1

Responsible Name Company2

? Section 1. Chemical Product and Company Identification

Product name C6-SFB, 25 mg.

Product No. 0022423

Supplier	In USA: Pierce P.O. Box 117 Rockford, IL 61105 USA 815.968.0747 or 1.800.874.3723	In Europe: Perbio Science Industriezone III Industrielaan 27 9320 Erembodegem-Aalst Belgium Tel:+32 53 83 44 04 Fax:+32 53 83 76 38	Manufacturer	Pierce Biotechnology P.O. Box 117 Rockford, IL 61105 USA 815.968.0747 or 1.800.874.3723
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In Case of Emergency CHEMTREC:
800.424.9300
OUTSIDE US:
202.483.7616

Print Date 1/27/2005
Validation Date 1/17/2005
MSDS# 7251

Intended Use Refer to the instruction booklet for proper and intended use. Otherwise, contact supplier for specific applications.

Chemical name C6-Succinimidyl 4-Formylbenzoate

Section 2. Composition, Information on Ingredients

Substance/Preparation : Substance

<u>Ingredient name</u>	<u>CAS number</u>	<u>%</u>	<u>EC number</u>	<u>Classification</u>
C6-SFB, 25 mg.		98 - 100		Xn; R20/21/22

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 No specific hazard.
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 applicable.

Routes of Entry Not available.

Potential acute health effects

Eyes No known significant effects or critical hazards.

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

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Classification	Xn; R20/21/22
Physical/chemical hazards	Not applicable.
Human health hazards	Harmful by inhalation, in contact with skin and if swallowed.
Environmental hazards	Not applicable.

See Toxicological Information (section 11)

+ Section 4. First Aid Measures

Effects and symptoms

Inhalation	Not available.
Ingestion	Not available.
Skin Contact	Not available.
Eye Contact	Not available.
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 if irritation occurs.
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.
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 if irritation occurs.
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.

Not available.

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...).

Section 6. Accidental Release Measures

Personal precautions Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

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.

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◆ Section 7. Handling and Storage

Handling Do not ingest. Avoid prolonged contact with eyes, skin, and clothing. Keep container closed. Use only with adequate ventilation. Avoid breathing dust. Wash thoroughly after handling.

Storage Keep container tightly closed. Keep container in a cool, well-ventilated area.

Intended Use Refer to the instruction booklet for proper and intended use. Otherwise, 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.

Exposure Limit Values

Ingredient Name

Occupational Exposure Limits

United States

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

Physical State and Appearance Solid.

Color White.

Odor Not available.

Molecular Weight 360.2 g/mole

Taste Not available.

Molecular Formula C18 H20 N2 O6

Dispersion Properties Not available.

Solubility Not available.

🧪 Section 10. Stability and Reactivity

Stability and Reactivity The product is stable.

Conditions to avoid Not available.

Materials to avoid Not available.

Hazardous Decomposition Products Not available.

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Section 11. Toxicological Information

Toxicity to Animals C6-Succinimidyl 4-Formylbenzoate

LD50: Not available.

LC50: Not available.

Chronic Effects on Humans Not available.*Other Toxic Effects on Humans* No specific information is available in our database regarding the other toxic effects of this material for humans.*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* 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.*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.*Skin* No known significant effects or critical hazards.

Section 12. Ecological Information

Mobility Not available.*Persistence/degradability* Not available.*Bioaccumulative potential* Not available.*Ecotoxicity* Not available.*Germany water class* VCI WGK: No products were found.

Ecotoxicity data

Ingredient nameSpeciesPeriod

Other ecological information

Persistence/degradabilityIngredient nameBOD₅CODIngredient nameAquatic half-lifePhotolysisBioaccumulative potentialIngredient nameLogP_{ow}BCF*Mobility* : Not available.*Other adverse effects* : No known significant effects or critical hazards.**Continued on Next Page**



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 Not available.

Denmark - Waste group Not available.

Sweden - thermoset plastic waste Not available.

Sweden - Waste group Not available.

Austria - Waste catalogue Not available.

Norway - Waste number Not available.

Norway - Hazardous waste The classification of the product may meet the criteria for a hazardous waste

Switzerland - Waste code Not available.

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)

R20/21/22- Harmful by inhalation, in contact with skin and if swallowed.
S36/37/39- Wear suitable protective clothing, gloves and eye/face protection.



Harmful

HCS Classification

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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.

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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).

No products were found.

International Regulations

EINECS Not available.

DSCL (EEC) R20/21/22- Harmful by inhalation, in contact with skin and if swallowed.

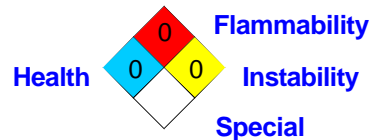
International Lists No products were found.

State Regulations No products were found.

Section 16. Other Information

Hazardous Material Information System (U.S.A.)	Health	1
	Fire hazard	0
	Reactivity	0
	Personal protection	C

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



References Not available.

History of Document Changes Any information changes since last document version are marked with a triangle symbol. ▶

Full text of R phrases referred to in sections 2 and 3 - Europe R20/21/22- Harmful by inhalation, in contact with skin and if swallowed.

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

Intended Use Refer to the instruction booklet for proper and intended use. Otherwise, contact supplier for specific applications.

Validated by Company2 on 1/17/2005.

Verified by Company2.

Date of Previous Issue No Previous Validation

Printed 1/27/2005.

Version 1

Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.