

Creation Date 29-Jun-2009 Revision Date 19-Nov-2010 Revision Number 1

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

**Product Identifier** 

Product Description: 4-Fluoro-3-nitrobenzaldehyde

Cat No. 398820000; 398820010

Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Laboratory chemicals
Uses advised against No Information available

Details of the supplier of the safety data sheet

Company

Acros Organics BVBA Janssen Pharmaceuticalaan 3a

2440 Geel, Belgium

**E-mail address** begel.sdsdesk@thermofisher.com

**Emergency Telephone Number** 

For information in the US, call: 001-800-ACROS-01 For information in Europe, call: +32 14 57 52 11

Emergency Number, Europe: +32 14 57 52 99 Emergency Number, US: 001-201-796-7100

CHEMTREC Phone Number, US: 001-800-424-9300 CHEMTREC Phone Number, Europe: 001-703-527-3887

## **SECTION 2. HAZARDS IDENTIFICATION**

# Classification of the substance or mixture REGULATION (EC) No 1272/2008

| Acute oral toxicity                                | Category 4 |
|--|------------|
| Skin Corrosion/irritation                          | Category 2 |
| Serious Eye Damage/Eye Irritation                  | Category 2 |
| Specific target organ toxicity - (single exposure) | Category 3 |

## Classification according to EU Directives 67/548/EEC or 1999/45/EC

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16

Symbol(s) Xn - Harmful

R-phrase(s) R22 - Harmful if swallowed

Risk Combination Phrases R36/37/38 - Irritating to eyes, respiratory system and skin

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## **SECTION 2. HAZARDS IDENTIFICATION**

**Label Elements** 



Signal Word Warning

**Hazard Statements** 

H302 - Harmful if swallowed

H335 - May cause respiratory irritation

H315 - Causes skin irritation

H319 - Causes serious eye irritation

#### Precautionary Statements - EU (§28, 1272/2008)

P261 - Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

#### Other Hazards

No information available.

## **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

| Component                                  | EC-No. | Weight % | CAS-No     | 67/548/EEC<br>Classification | CLP<br>Classification -<br>Regulation (EC)<br>No 1272/2008   | REACH No. |
|--|--------|----------|------------|------------------------------|--|-----------|
| 4-Fluoro-3-nitrobenzaldehyde<br>42564-51-2 |        | >95      | 42564-51-2 | Xn; R22<br>Xi; R36/37/38     | STOT SE 3<br>(H335)<br>Skin Irrit. 2<br>(H315)<br>Eye Irrit. 2<br>(H319)<br>Acute Tox. 4<br>(H302) | -         |

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16



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## **SECTION 4. FIRST AID MEASURES**

**Description of first aid measures** 

**Eye Contact**Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain

medical attention.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.

**Ingestion** Do not induce vomiting. Call a physician or Poison Control Center immediately.

**Inhalation** Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation

if victim ingested or inhaled the substance; induce artificial respiration with a respiratory

medical device. Obtain medical attention.

Notes to Physician Treat symptomatically

## **SECTION 5. FIRE-FIGHTING MEASURES**

#### **Extinguishing media**

#### **Suitable Extinguishing Media**

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

#### Extinguishing media which must not be used for safety reasons

No information available.

## Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors

#### Advice for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

#### Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation.

#### **Environmental precautions**

Should not be released into the environment.

#### Methods and material for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.



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# SECTION 7. HANDLING AND STORAGE

### **Precautions for Safe Handling**

Wear personal protective equipment. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.

#### Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place.

#### **Specific End Uses**

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters** 

**Exposure limits** This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

This product, as supplied, does not contain any hazardous materials with biological limits **Biological limit values** 

established by the region specific regulatory bodies.

No information available. **Derived No Effect Level (DNEL)** No information available. **Predicted No Effect Concentration** 

(PNEC)

**Exposure controls** 

Ensure that eyewash stations and safety showers are close to the workstation location Ensure **Engineering Measures** 

adequate ventilation, especially in confined areas

Personal protective equipment

**Eye Protection** 

**Hand Protection** Skin and body protection

**Respiratory Protection** 

Safety glasses with side-shields

Protective gloves Wear appropriate protective gloves and clothing to prevent skin exposure

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits

are exceeded or if irritation or other symptoms are experienced

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice

**Environmental exposure controls** No information available.

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Physical State** Solid Off-white **Appearance** 

No information available. рH No information available. **Boiling Point/Range** Melting Point/Range 44 - 45°C / 111.2 - 113°F Flash Point

> 110°C / > 230°F



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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES** 

**Autoignition Temperature** 

Water Solubility Molecular Formula Molecular Weight No information available.

Insoluble C7 H4 F N O3 169.11

## **SECTION 10. STABILITY AND REACTIVITY**

#### Reactivity

### **Chemical Stability**

Stable under normal conditions.

## **Possibility of Hazardous Reactions**

Hazardous Polymerization

Hazardous polymerization does not occur.

Hazardous Reactions.

None under normal processing..

#### **Conditions to Avoid**

Incompatible products, Excess heat, Avoid dust formation, Exposure to air.

#### **Incompatible Materials**

Strong oxidizing agents.

#### **Hazardous Decomposition Products**

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NOx). Hydrogen fluoride.

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

#### Information on Toxicological Effects

**Acute Toxicity** 

Product Information No acute toxicity information is available for this product

**Component Information** 

**Chronic Toxicity** 

Carcinogenicity There are no known carcinogenic chemicals in this product

SensitizationNo information available.Mutagenic EffectsNo information availableReproductive EffectsNo information available.

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**SECTION 11. TOXICOLOGICAL INFORMATION** 

Developmental EffectsNo information available.Target OrgansSkin Respiratory system Eyes

Other Adverse Effects The toxicological properties have not been fully investigated.

**Endocrine Disruptor Information** None known

## **SECTION 12. ECOLOGICAL INFORMATION**

**Toxicity** 

**Ecotoxicity effects** Do not empty into drains

Persistence and degradability

No information available

**Bioaccumulative potential** 

No information available.

Mobility in soil

No information available.

Results of PBT and vPvB assessment

Other adverse effects

No information available

## **SECTION 13. DISPOSAL CONSIDERATIONS**

Waste treatment methods

Waste from Residues / Unused

**Products** 

Dispose of in accordance with local regulations

Contaminated Packaging Empty containers should be taken to local recyclers for disposal

## **SECTION 14. TRANSPORT INFORMATION**

IMDG/IMO Not regulated

ADR Not regulated

IATA Not regulated



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#### **SECTION 15. REGULATORY INFORMATION**

Safety, health and environmental regulations/legislation specific for the substance or mixture

#### **International Inventories**

## Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**CHINA** - China Inventory of Existing Chemical Substances

**AICS** - Inventory of Chemical Substances

**KECL** - Existing and Evaluated Chemical Substances

## **Chemical Safety Assessment**

## **SECTION 16. OTHER INFORMATION**

### Full text of R-phrases referred to under sections 2 and 3

R22 - Harmful if swallowed

R36/37/38 - Irritating to eyes, respiratory system and skin

**Revision Date** 19-Nov-2010

**Revision Summary** 

Reason for revision Not applicable

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Safety Data Sheet** 

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