



Revision Date 16-Nov-2010

**Revision Number** 1

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

Product Identifier Product Description: Cat No.

3,4-Difluorophenyl isocyanate 369520000; 369520020; 369525000

Relevant identified uses of the substance or mixture and uses advised againstRecommended UseLaboratory chemicalsUses advised againstNo Information available

Details of the supplier of the safety data sheetCompanyAcros Organics BVBAJanssen Pharmaceuticalaan 3a2440 Geel, BelgiumE-mail addressbegel.sdsde

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
Acute dermal toxicity	Category 4
Acute Inhalation Toxicity - Dusts and Mists	Category 4
Skin Corrosion/irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Specific target organ toxicity - (single exposure)	Category 3
Flammable liquids	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



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H302 - Harmful if swallowed

- H319 Causes serious eye irritation
- H226 Flammable liquid and vapor

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

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

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

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

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

P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing

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

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

#### **Other Hazards**

Lachrymator (substance which increases the flow of tears).





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## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	EC-No.	Weight %	CAS-No	67/548/EEC Classification	CLP Classification - Regulation (EC) No 1272/2008	REACH No.
3,4-Difluorophenyl isocyanate 42601-04-7		100	42601-04-7	Xn; R20/21/22 Xi; R36/37/38	STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 4 (H332)	-

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

## **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 soap and plenty of water while removing all contaminated clothes and shoes. Obtain medical attention.
Ingestion	Clean mouth with water. Get medical attention.
Inhalation	Remove from exposure, lie down. Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Obtain medical attention.
Notes to Physician	Treat symptomatically

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

### **Extinguishing media**

Suitable Extinguishing Media Water spray. Carbon dioxide (CO<sub>2</sub>). Dry chemical. chemical foam.

**Extinguishing media which must not be used for safety reasons** No information available.

Special hazards arising from the substance or mixture



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Combustible material. Flammable.

## Advice for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

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

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

Ensure adequate ventilation

#### **Environmental precautions**

Prevent further leakage or spillage if safe to do so

### Methods and material for containment and cleaning up

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

## **SECTION 7. HANDLING AND STORAGE**

#### **Precautions for Safe Handling**

Avoid contact with skin and eyes. Do not breathe dust. Do not breathe vapors or spray mist.

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

Keep in a dry place. Keep container tightly closed. Keep away from heat and sources of ignition. Keep under nitrogen. Keep refrigerated.

#### Specific End Uses

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

Exposure limitsThis product, as supplied, does not contain any hazardous materials with occupational<br/>exposure limits established by the region specific regulatory bodies.Biological limit valuesThis product, as supplied, does not contain any hazardous materials with biological limits<br/>established by the region specific regulatory bodies.Derived No Effect Level (DNEL)<br/>Predicted No Effect Concentration<br/>(PNEC)This product, as supplied, does not contain any hazardous materials with biological limits<br/>established by the region specific regulatory bodies.<br/>No information available.<br/>No information available.

Exposure controls



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Engineering Measures Personal protective equipment	Ensure adequate ventilation, especially in confined areas Ensure that eyewash stations and safety showers are close to the workstation location
Eye Protection Hand Protection Skin and body protection Respiratory Protection	Goggles 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 Environmental exposure controls	Handle in accordance with good industrial hygiene and safety practice No information available.

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

Physical State Appearance pH Boiling Point/Range Melting Point/Range Flash Point Autoignition Temperature Specific Gravity Molecular Formula Molecular Weight

Liquid No information available No information available. 164°C / 327.2°F@ 760 mmHg No information available. 62°C / 143.6°F No information available. 1.326 C7 H3 F2 N O 155.1

## SECTION 10. STABILITY AND REACTIVITY

### Reactivity

#### **Chemical Stability**

Stable. Moisture sensitive.

#### **Possibility of Hazardous Reactions**

Hazardous Polymerization Hazardous Reactions . Hazardous polymerization does not occur. No information available.

#### **Conditions to Avoid**

Incompatible products, Exposure to moist air or water.

#### **Incompatible Materials**

Acids, Water, Strong oxidizing agents, Strong bases, Alcohols, Amines.

### **Hazardous Decomposition Products**

Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Hydrogen cyanide (hydrocyanic acid). Gaseous hydrogen fluoride (HF).



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# SECTION 11. TOXICOLOGICAL INFORMATION

Information on Toxicological Ef	fects

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
Sensitization	No information available.
Mutagenic Effects	No information available
Reproductive Effects	No information available.
Developmental Effects	No information available.
Target Organs	No information available.
Other Adverse Effects	The toxicological properties have not been fully investigated.
Endocrine Disruptor Information	None known

# **SECTION 12. ECOLOGICAL INFORMATION**

Toxicity Ecotoxicity effects

Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants

 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**





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## Waste treatment methods

Waste from Residues / Unused Dispose of in accordance with local regulations Products

Contaminated Packaging

Empty containers should be taken to local recyclers for disposal

## **SECTION 14. TRANSPORT INFORMATION**

#### IMDG/IMO

UN-No	2206
Hazard Class	6.1
Subsidiary Hazard Class	3
Packing Group	III
Proper Shipping Name	ISOCYANATES, TOXIC, N.O.S.

#### ADR

UN-No	2206
Hazard Class	6.1
Packing Group	III
Proper Shipping Name	ISOCYANATES, TOXIC, N.O.S.

#### ΙΑΤΑ

UN-No	2206
Hazard Class	6.1
Subsidiary Hazard Class	3
Packing Group	III
Proper Shipping Name	ISOCYANATES, TOXIC, N.O.S.*

## **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



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**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** R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed R36/37/38 - Irritating to eyes, respiratory system and skin

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 Revision Summary
 Not applicable

 This sefety data sheet complian with the requirements of Regulation (it is 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