



Revision Date 03-May-2012

**Revision Number** 2

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

Product Identifier Product Description: Cat No. Synonyms

Hexyl isocyanate 411660000; 411660050; 411660250; 411661000 1-Isocyanatohexane; Hexane, 1-isocyanato-

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 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
Acute dermal toxicity	Category 4
Acute Inhalation Toxicity - Vapors	Category 4
Skin Corrosion/irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 1
Respiratory Sensitization	Category 1
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
R-phrase(s)	R41 - Risk of serious damage to eyes
	R42 - May cause sensitization by inhalation
Risk Combination Phrases	R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed
	R36/37/38 - Irritating to eyes, respiratory system and skin

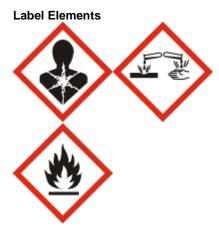




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## **SECTION 2. HAZARDS IDENTIFICATION**



#### Signal Word Hazard Statements

Danger

- H302 Harmful if swallowed
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
- H332 Harmful if inhaled
- H335 May cause respiratory irritation
- H318 Causes serious eye damage
- H312 Harmful in contact with skin
- H315 Causes skin irritation
- H226 Flammable liquid and vapor

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

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

P280 - Wear 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

P310 - Immediately call a POISON CENTER or doctor/ physician

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

P304 + P341 - IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing

P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician

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

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.
Hexyl isocyanate 2525-62-4	EEC No. 219-763-8	99	2525-62-4	Xn; R20/21/22 Xi; R36/37/38 Xi; R41 R42;	STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Eye Irrit. 2 (H319) Resp. Sens. 1 (H334) 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

Carbon dioxide (CO<sub>2</sub>). Dry chemical.



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

#### Special hazards arising from the substance or mixture

Combustible material. Flammable. Vapors may travel to source of ignition and flash back.

#### 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

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Do not let this chemical enter the environment.

## **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. Do not ingest. Use explosion-proof equipment. Use only non-sparking tools.

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

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep away from heat and sources of ignition. Flammables area.

#### **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.



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Biological limit values Derived No Effect Level (DNEL) Predicted No Effect Concentration (PNEC) Exposure controls	This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies. No information available. No information available.
Engineering Measures Personal protective equipment Eye Protection Hand Protection Skin and body protection Respiratory Protection	Use explosion-proof electrical/ventilating/lighting/equipment Ensure that eyewash stations and safety showers are close to the workstation location 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 odor pH Vapor Pressure Vapor Density Boiling Point/Range Melting Point/Range Flash Point Autoignition Temperature Water Solubility Molecular Formula Molecular Weight Liquid Clear strong No information available. No information available. No information available. 162 - 164°C / 323.6 - 327.2°F @ 760 MM HG No information available. 59°C / 138.2°F No information available. decomposes C7 H13 N O 127.19

# **SECTION 10. STABILITY AND REACTIVITY**

#### Reactivity

#### **Chemical Stability**

Moisture sensitive.

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

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



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#### **Conditions to Avoid**

Keep away from open flames, hot surfaces and sources of ignition, Excess heat, Incompatible products, Exposure to moist air or water.

#### **Incompatible Materials**

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

#### **Hazardous Decomposition Products**

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

## **SECTION 11. TOXICOLOGICAL INFORMATION**

Information on Toxicological Effects	
Acute Toxicity Product Information	No acute toxicity information is available for this product
Component Information	
<u>Chronic Toxicity</u> Carcinogenicity	There are no known carcinogenic chemicals in this product
Sensitization Mutagenic Effects Reproductive Effects Developmental Effects Target Organs Other Adverse Effects Endocrine Disruptor Information	May cause sensitization by inhalation No information available No information available. No information available. No information available. The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information None known

# **SECTION 12. ECOLOGICAL INFORMATION**

#### Toxicity

Ecotoxicity effects

Do not empty into drains

#### Persistence and degradability

No information available



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#### **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

UN-No	3080
Hazard Class	6.1
Subsidiary Hazard Class	3
Packing Group	II
Proper Shipping Name	ISOCYANATES, TOXIC, FLAMMABLE, N.O.S.

#### ADR

UN-No	3080
Hazard Class	6.1
Subsidiary Hazard Class	3
Packing Group	II
Proper Shipping Name	ISOCYANATES, TOXIC, FLAMMABLE, N.O.S.

#### ΙΑΤΑ

UN-No	3080
Hazard Class	6.1
Subsidiary Hazard Class	3
Packing Group	II
Proper Shipping Name	ISOCYANATES, TOXIC, FLAMMABLE, N.O.S.*





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## SECTION 15. REGULATORY INFORMATION

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

#### International Inventories

Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	CHINA	AICS	KECL
Hexyl isocyanate	219-763-8	-		Х	-	Х	-	-	Х	-	-

#### 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

R41 - Risk of serious damage to eyes R42 - May cause sensitization by inhalation R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed R36/37/38 - Irritating to eyes, respiratory system and skin

**Revision Date Revision Summary**  03-May-2012

**Reason for revision** 

Not applicable This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 Disclaimer

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End of Safety Data Sheet