SAFETY DATA SHEET



Revision Date 24-Nov-2010

Revision Number 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier	
Product Description:	
Cat No.	
Synonyms	

Benzyl isothiocyanate 402130000; 402130050; 402130250 Isothiocyanic acid benzyl ester

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

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

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

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 1
Serious Eye Damage/Eye Irritation	Category 1
Respiratory Sensitization	Category 1
Skin Sensitization	Category 1

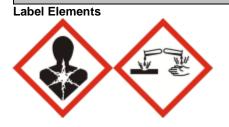
Classification according to EU Directives 67/548/EEC or 1999/45/ECFor the full text of the R phrases mentioned in this Section, see Section 16Symbol(s)C - CorrosiveR -phrase(s)R34 - Causes burnsRisk Combination PhrasesR20/21/22 - Harmful by inhalation, in contact with skin and if swallowed
R42/43 - May cause sensitization by inhalation and skin contact





Revision Date 24-Nov-2010

2. HAZARDS IDENTIFICATION



Signal Word

Danger

Hazard Statements

- H318 Causes serious eye damage
- H332 Harmful if inhaled
- H314 Causes severe skin burns and eye damage
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
- H317 May cause an allergic skin reaction
- H312 Harmful in contact with skin
- H302 Harmful if swallowed

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

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

P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting

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

P280 - Wear eye protection/face protection

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

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

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

Other Hazards

Lachrymator (substance which increases the flow of tears).

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	EC No.	Weight %	CAS-No	Classification	GHSCLAS	REACH Reg. No.	
						U	



SAFETY DATA SHEET

Benzyl isothiocyanate

Revision Date 24-Nov-2010

3. COMPOSITION/INFORMATION ON INGREDIENTS										
Benzene, (isothiocyanatomethyl)- 622-78-6	EEC No. 210- 753-9	98	622-78-6	Xn; R20/21/22 C; R34 R42/43	Skin Corr. 1B (H314) Resp. Sens. 1 (H334) Skin Sens. 1 (H317) Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 4 (H332)	-				

For the full text of the R phrases mentioned in this Section, see Section 16

4. FIRST AID MEASURES

Description of first aid measures
Eye ContactImmediate medical attention is required Rinse immediately with plenty of water, also under the
eyelids, for at least 15 minutesSkin ContactWash off immediately with soap and plenty of water removing all contaminated clothes and
shoes Immediate medical attention is requiredIngestionDo not induce vomiting Call a physician immediatelyInhalationRemove from exposure, lie down Move to fresh air If breathing is difficult, give oxygen If not
breathing, give artificial respiration Immediate medical attention is requiredNotes to PhysicianTreat symptomatically

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media

Carbon dioxide (CO₂) 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

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





Revision Date 24-Nov-2010

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 and closed containers for disposal. Do not let this chemical enter the environment.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Do not breathe dust Do not breathe vapors or spray mist Do not get in eyes, on skin, or on clothing Remove and wash contaminated clothing before re-use Do not ingest Use only in area provided with appropriate exhaust ventilation Wash thoroughly after handling

Conditions for safe storage, including any incompatibilities

Keep in a dry place Keep container tightly closed Keep away from direct sunlight Corrosives area Store under an inert atmosphere Keep refrigerated

Specific End Uses

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.
Derived No Effect Level (DNEL) Predicted No Effect Concentration (PNEC)	No information available. No information available.
Exposure controls Engineering Measures	Ensure adequate ventilation, especially in confined areas Ensure that eyewash stations and safety showers are close to the workstation location
Personal protective equipment	
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.





Revision Date 24-Nov-2010

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Appearance odor pH Vapor Pressure Vapor Density Boiling Point/Range Melting Point/Range Flash Point Specific Gravity Molecular Formula Molecular Weight Liquid Yellow odorless No information available. 0.02 mmHg @ 20 °C No information available. 243°C / 469.4°F@ 760 mmHg 41°C / 105.8°F 106°C / 222.8°F 1.120 C8 H7 N S 149.22

10. STABILITY AND REACTIVITY

Reactivity Chemical Stability Stable under normal conditions. Moisture sensitive. Light sensitive.

Possibility of Hazardous Reactions

Hazardous PolymerizationNo information available.Hazardous Reactions .No information available.

Conditions to Avoid Exposure to light, Incompatible products, Exposure to moist air or water.

Incompatible Materials Strong oxidizing agents. Hazardous Decomposition Products Carbon monoxide (CO). Carbon dioxide (CO₂). Hydrogen cyanide (hydrocyanic acid).

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

SAFETY DATA SHEET



Benzyl isothiocyanate

Revision Date 24-Nov-2010

11. TOXICOLOGICAL INFORMATION

Sensitization
Mutagenic Effects
Reproductive Effects
Developmental Effects
Target Organs
Other Adverse Effects

Endocrine Disruptor Information

May cause sensitization by inhalation and skin contact 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

12. ECOLOGICAL INFORMATION

Toxicity Ecotoxicity effects

Do not empty into drains

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Benzene,			EC50 = 0.01 mg/L 15	
(isothiocyanatomethyl)-			min	
			EC50 = 0.01 mg/L 30	
			min	
			EC50 = 0.01 mg/L 5	
			min	

 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

13. DISPOSAL CONSIDERATIONS

Waste treatment methods Waste from Residues / Unused	Dispose of in accordance with local regulations
Products Contaminated Packaging	Empty containers should be taken for local recycling, recovery or waste disposal

14. TRANSPORT INFORMATION





Revision Date 24-Nov-2010

	14. TRANSPORT INFORMATION
IDG/IMO	
UN-No Hazard Class Subsidiary Hazard Class Packing Group Proper Shipping Name	2927 6.1 8 II TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S.
DR	
UN-No	2927
Hazard Class Subsidiary Class	6.1 8
Packing Group	I
Proper Shipping Name	TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S.
ATA_	
UN-No	2927
Hazard Class	6.1
Subsidiary Hazard Class Packing Group	8 II
Proper Shipping Name	 TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S.*

15. REGULATORY INFORMATION

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

International Inventories												
1	Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	CHINA	AICS	KECL
	Benzene, (isothiocyanatomethyl)-	210-753-9	-		Х	-	Х	Х	Х	Х	Х	-

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory **EINECS/ELINCS** - European Inventory Lists

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





Revision Date 24-Nov-2010

16. OTHER INFORMATION

Text of R phrases mentioned in Section 2-3

R34 - Causes burns R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed R42/43 - May cause sensitization by inhalation and skin contact

 Revision Date
 24-Nov-2010

 Revision Summary
 Not applicable

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

 Disclaimer

The information provided on this SDS 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