



Creation Date 24-Nov-2010

Revision Date 24-Nov-2010

Revision Number 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier Product Description: Cat No. Synonyms

Diethylcarbamyl chloride 114200000; 11420050; 114201000; 114205000 Diethylcarbamoyl chloride

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

2. HAZARDS IDENTIFICATION

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

Acute oral toxicity	Category 4
Acute Inhalation Toxicity - Vapors	Category 4
Skin Corrosion / irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Carcinogenicity	Category 2
Specific target organ systemic toxicity (single exposure)	Category 3

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

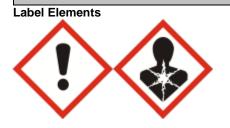
For the full text of the R phrases mentioned in this Section, see Section 16Symbol(s)Xn - HarmfulR -phrase(s)R40 - Limited evidence of a carcinogenic effectRisk Combination PhrasesR20/22 - Harmful by inhalation and if swallowedR36/37/38 - Irritating to eyes, respiratory system and skin





Revision Date 24-Nov-2010

2. HAZARDS IDENTIFICATION



Signal Word

Warning

Hazard Statements

- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H302 Harmful if swallowed
- H332 Harmful if inhaled
- H335 May cause respiratory irritation
- H351 Suspected of causing cancer

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

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

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

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

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

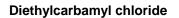
Other Hazards

No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	EC No.	Weight %	CAS-No	Classification	GHSCLAS	REACH Reg. No.
Diethylcarbamoyl chloride 88-10-8	EEC No. 201- 798-5	>95	88-10-8	Carc.Cat.3;R40 Xn;R20/22 Xi;R36/37/38	Acute Tox. 4 (H302) Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Carc. 2 (H351) STOT SE 3 (H335)	-

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



Revision Date 24-Nov-2010

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 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

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

Water

Special hazards arising from the substance or mixture

Combustible material Contact with water liberates toxic gas Water reactive Produce flammable gases on contact with water

Advice for fire-fighters

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

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.





Revision Date 24-Nov-2010

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 Use only in area provided with appropriate exhaust ventilation

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 Corrosives area Keep under nitrogen

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) Exposure controls	No information available. No information available.
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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Appearance odor pH Vapor Pressure Vapor Density Viscosity Boiling Point/Range Melting Point/Range Flash Point Water Solubility

Liquid Amber strong No information available. 1 mbar @ 20 °C 4.1 1.51 mPa.s at 20 °C 76 - 78°C / 168.8 - 172.4°F@ 12 mmHg -32°C / -25.6°F 80°C / 176°F hydrolyses



Revision Date 24-Nov-2010

9. PHYSICAL AND CHEMICAL PROPERTIES

Specific Gravity Molecular Formula **Molecular Weight**

1.070 C5 H10 CI N O 135.59

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.

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

Incompatible Materials Strong bases, alkaline, Bases, Strong oxidizing agents, Alcohols, Amines.

Hazardous Decomposition Products Hydrogen chloride gas. Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO2).

11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Acute Toxicity

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Diethylcarbamoyl chloride	2700 mg/kg (Rat)		

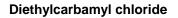
Chronic Toxicity

Carcinogenicity

Suspected human carcinogen

No information available. Sensitization **Mutagenic Effects Reproductive Effects Developmental Effects** Target Organs **Other Adverse Effects Endocrine Disruptor Information**

Ames test: positive. No information available. No information available. Eyes Skin Respiratory system See actual entry in RTECS for complete information None known



Revision Date 24-Nov-2010

12. ECOLOGICAL INFORMATION

Toxicity Ecotoxicity effects

Do not empty into drains

Persistence and degradability Expected to be biodegradable

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 Products	Dispose of in accordance with local regulations
Contaminated Packaging	Empty containers should be taken for local recycling, recovery or waste disposal

14. TRANSPORT INFORMATION

IMDG/IMO

UN-No	3265
Hazard Class	8
Packing Group	III
Proper Shipping Name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.

ADR

UN-No	3265
Hazard Class	8
Packing Group	III
Proper Shipping Name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.

IATA

UN-No	3265
Hazard Class	8



Revision Date 24-Nov-2010

14. TRANSPORT INFORMATION

Packing Group Proper Shipping Name

CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.*

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
Diethylcarbamoyl chloride	201-798-5	-		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

Ш

Chemical Safety Assessment

16. OTHER INFORMATION

Text of R phrases mentioned in Section 2-3

R40 - Limited evidence of a carcinogenic effect R20/22 - Harmful by inhalation and if swallowed R36/37/38 - Irritating to eyes, respiratory system and skin

 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