

# SAFETY DATA SHEET

Creation Date 22-Sep-2009 Revision Date 04-Nov-2010 Revision Number 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier** 

Product Description: Diethyl 1,4-dihydro-3,5-pyridinecarboxylate

Cat No. 399190000; 399190010 Synonyms Diludin; Hantzsch ester

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: 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

Skin Corrosion / irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2A
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 16

Symbol(s) Xi - Irritant R -phrase(s) none

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

**Label Elements** 

## 2. HAZARDS IDENTIFICATION



Signal Word Warning

#### **Hazard Statements**

H315 - Causes skin irritation

H319 - Causes serious eye irritation H335 - May cause respiratory irritation

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

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

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.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	EC No.	Weight %	CAS-No	Classification	GHSCLAS
Diethyl 1,4-dihydro-2,6-	EEC No. 214-	>95	1149-23-1	Xi; R36/37/38	STOT SE 3 (H335)
dimethylpyridine-3,5-	561-6				Skin Irrit. 2 (H315)
dicarboxylate					Eye Irrit. 2 (H319)
-					, ,

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 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 Obtain medical attention

**Inhalation** Move to fresh air If breathing is difficult, give oxygen Obtain medical attention

Notes to Physician Treat symptomatically

## 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

## 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

## 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** 

## 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

Predicted No Effect Concentration

(PNEC)

Exposure controls
Engineering Measures

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

Personal protective equipment

Eye Protection Safety glasses with side-shields

Hand Protection Protective gloves

**Skin and body protection** Wear appropriate protective gloves and clothing to prevent skin exposure

No information available.

No information available.

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adequate ventilation, especially in confined areas

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection 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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Solid

pHNo information available.Boiling Point/RangeNo information available.Melting Point/Range178 - 183°C / 352.4 - 361.4°FFlash PointNo information available.

Molecular Formula C13 H19 N O4

Molecular Weight 253.30

### 10. STABILITY AND REACTIVITY

Reactivity

Chemical Stability

Stable under normal conditions.

**Possibility of Hazardous Reactions** 

Hazardous Polymerization No information available.
Hazardous Reactions . None under normal processing..

**Conditions to Avoid** 

Incompatible products, Excess heat, Avoid dust formation.

Incompatible Materials

Strong oxidizing agents.

**Hazardous Decomposition Products** 

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

## 11. TOXICOLOGICAL INFORMATION

#### **Information on Toxicological Effects**

**Acute Toxicity** 

**Product Information** See actual entry in RTECS for complete information.

**Component Information** 

**Chronic Toxicity** 

Carcinogenicity There are no known carcinogenic chemicals in this product

SensitizationNo information available.Mutagenic EffectsNo information available

11. TOXICOLOGICAL INFORMATION

Reproductive Effects
Developmental Effects
Target Organs

No information available.
No information available.
Skin Respiratory system Eyes

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

**Endocrine Disruptor Information** None known

### 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

## 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from Residues / Unused

**Products** 

Contaminated Packaging

Dispose of in accordance with local regulations

Empty containers should be taken for local recycling, recovery or waste disposal

## 14. TRANSPORT INFORMATION

IMDG/IMO Not regulated

ADR Not regulated

IATA Not regulated

## 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
Diethyl 1,4-dihydro-2,6-	214-561-6	-		-	-	-	-	-	-	-	-
dimethylpyridine-3,5-dicarboxylate											

#### 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**

## **16. OTHER INFORMATION**

#### Text of R phrases mentioned in Section 2-3

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

Revision Date 04-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** 

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