

# SAFETY DATA SHEET

Revision Date 09-Nov-2010

**Revision Number 2** 

# 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier** 

Product Description: 2,5-Dimethylpyrrolidine, mixture of cis and trans

Cat No. 371100000; 371101000

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 1
Serious Eye Damage/Eye Irritation	Category 1
Flammable liquids.	Category 2

### 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) F - Highly flammable

C - Corrosive

R -phrase(s) R11 - Highly flammable

R34 - Causes burns

# 2. HAZARDS IDENTIFICATION

#### **Label Elements**



Signal Word

Danger

#### **Hazard Statements**

H318 - Causes serious eye damage

H314 - Causes severe skin burns and eye damage

H225 - Highly flammable liquid and vapor

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

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

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

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

P240 - Ground/Bond container and receiving equipment

#### Other Hazards

No information available.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	EC No.	Weight %	CAS-No	Classification	GHSCLAS	REACH Reg. No.
1 ,	EEC No. 222- 178-0	93-97	3378-71-0	,	Skin Corr. 1B (H314)	

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** 

Immediate medical attention is required Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes

Skin Contact Wash off immediately with soap and plenty of water removing all contaminated clothes and

shoes Immediate medical attention is required

**Ingestion** Do not induce vomiting Never give anything by mouth to an unconscious person Drink plenty of

water Call a physician immediately If possible drink milk afterwards

**Inhalation** Remove from exposure, lie down Move to fresh air If breathing is difficult, give oxygen If not

breathing, give artificial respiration Immediate medical attention is required

Notes to Physician Treat symptomatically

# 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

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

### 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 Remove all sources of ignition Use spark-proof tools and explosion-proof equipment

# 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 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**

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### **Control parameters**

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

No information available. No information available.

(PNEC)

Exposure controls

Engineering Measures

Use explosion-proof electrical/ventilating/lighting/equipment Ensure that eyewash stations and

safety showers are close to the workstation location

Personal protective equipment

**Eye Protection** Goggles Hand Protection Protective gloves

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

**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 Liquid Appearance Clear

**pH** No information available.

Boiling Point/Range 106 - 108°C / 222.8 - 226.4°F@ 746 mmHg

Melting Point/Range No information available.

Flash Point 7°C / 44.6°F
Specific Gravity 0.810
Molecular Formula C6 H13 N
Molecular Weight 99.18

### 10. STABILITY AND REACTIVITY

Reactivity

**Chemical Stability** 

Stable under normal conditions.

**Possibility of Hazardous Reactions** 

Hazardous Polymerization No information available.
Hazardous Reactions . No information available.

**Conditions to Avoid** 

Keep away from open flames, hot surfaces and sources of ignition, Incompatible products.

**Incompatible Materials** 

Strong oxidizing agents, Strong acids.

**Hazardous Decomposition Products** 

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

44 TOVICOL COLOAL INFORMATION

# 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

SensitizationNo information available.Mutagenic EffectsNo information availableReproductive EffectsNo information available.Developmental EffectsNo information available.Target OrgansNo information available.

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

**Endocrine Disruptor Information** None known

# 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

# 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

### 14. TRANSPORT INFORMATION

### IMDG/IMO

UN-No 2733
Hazard Class 3
Subsidiary Hazard Class 8
Packing Group ||

Proper Shipping Name AMINES, FLAMMABLE, CORROSIVE, N.O.S.

### **ADR**

UN-No 2733
Hazard Class 3
Subsidiary Class 8
Packing Group ||

Proper Shipping Name AMINES, FLAMMABLE, CORROSIVE, N.O.S.

#### **IATA**

UN-No 2733 Hazard Class 3 Subsidiary Hazard Class 8 Packing Group ||

Proper Shipping Name AMINES, FLAMMABLE, CORROSIVE, 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
2,5-Dimethylpyrrolidine	222-178-0	-		-	-	•	-	-	-	-	-

### 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

R11 - Highly flammable R34 - Causes burns

**16. OTHER INFORMATION** 

Revision Date 09-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**