

Revision Date 29-Nov-2010 Revision Number 2

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Description: 1,5-Cyclooctadiene, stabilized Cat No. 297120000; 297120010; 297122500

Synonyms COD

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: 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

Skin Corrosion / irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Specific target organ systemic toxicity (single exposure)	Category 3
Chronic aquatic toxicity	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 mentioned in this Section, see Section 16

Symbol(s) Xi - Irritant R -phrase(s) R10 - Flammable

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

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic

environment



1,5-Cyclooctadiene, stabilized

Revision Date 29-Nov-2010

2. HAZARDS IDENTIFICATION

Label Elements





Signal Word

Warning

Hazard Statements

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

H315 - Causes skin irritation

H412 - Harmful to aquatic life with long lasting effects

H226 - Flammable liquid and vapor

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

P273 - Avoid release to the environment

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

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

1,5-Cyclooctadiene 111-78-4 SEC No. 203- 907-1 SEC No. 203- 907-1
(11412)



1,5-Cyclooctadiene, stabilized

Revision Date 29-Nov-2010

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 Cool closed containers exposed to fire with water spray

Extinguishing media which must not be used for safety reasons

No information available.

Special hazards arising from the substance or mixture

Flammable Containers may explode when heated Vapors may form explosive mixtures with air 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 Thermal decomposition can lead to release of irritating gases and vapors

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Remove all sources of ignition. Take precautionary measures against static discharges.

Environmental precautions

Should not be released into the environment.

Methods and material for containment and cleaning up

Soak up with inert absorbent material. Keep in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.



1,5-Cyclooctadiene, stabilized

Revision Date 29-Nov-2010

7. HANDLING AND STORAGE

Precautions for Safe Handling

Wear personal protective equipment Do not get in eyes, on skin, or on clothing Avoid ingestion and inhalation Keep away from open flames, hot surfaces and sources of ignition Use only non-sparking tools Use explosion-proof equipment Take precautionary measures against static discharges

Conditions for safe storage, including any incompatibilities

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

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
Engineering Measures

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

adequate ventilation, especially in confined areas Use explosion-proof

electrical/ventilating/lighting/equipment

Personal protective equipment

Eye Protection Hand Protection

Skin and body protection Respiratory Protection Goggles

Protective gloves
Wear appropriate protective gloves and clathing to provent skip expension

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.

No information available.

No information available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical StateLiquidAppearanceColorlessodorStench

pH No information available.

Vapor Pressure 6.5 hPa @ 20 °C

Vapor Density 3.73

Vapor Density
Viscosity
1

 Viscosity
 1.3 mPa.s at 20 °C

 Boiling Point/Range
 151°C / 303.8°F@ 101.3 kPa

 Melting Point/Range
 -69.5°C / -93.1°F

Flash Point 38°C / 100.4°F



1,5-Cyclooctadiene, stabilized

Autoignition Temperature

Revision Date 29-Nov-2010

9. PHYSICAL AND CHEMICAL PROPERTIES

270°C / 518°F

Water Solubility 780 mg/L (20°C)

Specific Gravity 0.880 C8 H12 Molecular Formula 108.18 **Molecular Weight**

10. STABILITY AND REACTIVITY

Reactivity

Chemical Stability

Stable under normal conditions.

Possibility of Hazardous Reactions

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions. None under normal processing..

Conditions to Avoid

Incompatible products, Excess heat, Keep away from open flames, hot surfaces and sources of ignition, Protect from light.

Incompatible Materials

Strong oxidizing agents.

Hazardous Decomposition Products

Carbon monoxide (CO). Carbon dioxide (CO₂).

11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Acute Toxicity

Product Information

Component Information

Component

LD50 Oral LD50 Dermal LC50 Inhalation 2.7 ml/kg (Rat) >3520 mg/kg (Rat) 1,5-Cyclooctadiene

Chronic Toxicity

There are no known carcinogenic chemicals in this product Carcinogenicity

Sensitization No information available. No information available **Mutagenic Effects**



1,5-Cyclooctadiene, stabilized

Revision Date 29-Nov-2010

Reproductive Effects

No information available.

Developmental Effects

No information available.

Target Organs Skin Respiratory system Eyes

Other Adverse Effects The toxicological properties have not been fully investigated. See actual entry in RTECS for

complete information

Endocrine Disruptor Information None known

12. ECOLOGICAL INFORMATION

Toxicity

Ecotoxicity effectsDo not empty into drains

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
1,5-Cyclooctadiene		14 mg/L LC50 24 h		

Persistence and degradability

Not readily biodegradable

Bioaccumulative potential

No information available.

Component	log Pow
1,5-Cyclooctadiene	3.23

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 2520 Hazard Class 3 Packing Group III



1,5-Cyclooctadiene, stabilized

Revision Date 29-Nov-2010

14. TRANSPORT INFORMATION

Proper Shipping Name CYCLOOCTADIENES

ADR

UN-No 2520 Hazard Class 3 Packing Group III

Proper Shipping Name CYCLOOCTADIENES

IATA

UN-No 2520 Hazard Class 3 Packing Group III

Proper Shipping Name CYCLOOCTADIENES

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
1,5-Cyclooctadiene	203-907-1	-		X	Χ	-	-	Х	X	Χ	KE-09273
											X

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

R10 - Flammable

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

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment



1,5-Cyclooctadiene, stabilized

Revision Date 29-Nov-2010

16. OTHER INFORMATION

Revision Date 29-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