

Revision Date 09-May-2011

**Revision Number 2** 

## PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier** 

**Product Description:** 1,9-Nonanedithiol

129130000; 129130050; 129130100 Cat No.

**Synonyms** 1,9-Dimercaptononane

Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Laboratory chemicals No Information available Uses advised against

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

Xn - Harmful Symbol(s)

R -phrase(s) R22 - Harmful if swallowed

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



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## 2. HAZARDS IDENTIFICATION

#### **Label Elements**



#### Signal Word

#### Warning

#### **Hazard Statements**

H335 - May cause respiratory irritation

H302 - Harmful if swallowed

H315 - Causes skin irritation

H319 - Causes serious eye irritation

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

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

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

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	REACH Reg. No.
1,9-Nonanedithiol	EEC No. 222-	95	3489-28-9	Xn; R22	STOT SE 3	=
3489-28-9	482-3			Xi; R36/37/38	(H335)	
					Skin Irrit. 2	
					(H315)	
					Eye Irrit. 2	
					(H319)	
					Acute Tox. 4	
					(H302)	

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

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## 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 (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

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

#### 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** 

Avoid contact with skin and eyes Do not breathe dust Do not breathe vapors or spray mist Do not ingest

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Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place Keep container tightly closed

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 adequate ventilation, especially in confined areas Ensure that eyewash stations and

safety showers are close to the workstation location

Personal protective equipment

**Eve Protection Hand Protection** 

Skin and body protection **Respiratory Protection** 

Protective gloves

Goggles

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 State** Liquid **Appearance** Light yellow

Stench odor Ηq

No information available. **Vapor Pressure** No information available. **Vapor Density** 

284°C / 543.2°F@ 760 mmHg **Boiling Point/Range** 

**Melting Point/Range** No information available. Flash Point 101°C / 213.8°F

**Autoignition Temperature** No information available.

Water Solubility Insoluble **Specific Gravity** 0.950 Molecular Formula C9 H20 S2 **Molecular Weight** 192.38

#### 10. STABILITY AND REACTIVITY



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10. STABILITY AND REACTIVITY

Reactivity

Chemical Stability

Stable under normal conditions.

Possibility of Hazardous Reactions

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

Conditions to Avoid Incompatible products.

**Incompatible Materials** 

Bases, Strong oxidizing agents, Metals, Reducing agents.

**Hazardous Decomposition Products** 

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Sulfur oxides. Sulfides.

## 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** Do not empty into drains



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## 12. ECOLOGICAL INFORMATION

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** 

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 Not regulated

**ADR** Not regulated

**IATA** 

3334 **UN-No** 

**Hazard Class** 

AVIATION REGULATED LIQUID, N.O.S.\* **Proper Shipping Name** 

## 15. REGULATORY INFORMATION

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

#### **International Inventories**

Component	EINECS	<b>ELINCS</b>	NLP	TSCA	DSL	NDSL	PICCS	ENCS	CHINA	AICS	KECL
1,9-Nonanedithiol	222-482-3	-		Χ	Χ	-	Χ	-	-	Χ	-

## Legend



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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

R22 - Harmful if swallowed

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

Revision Date 09-May-2011 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**