



Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date: 08.12.2010

Revision: 08.12.2010

1 Identification of the substance/preparation and of the company/undertaking

Product name: **2,5,8,11-Tetramethyl-6-dodecyne-5,8-diol**
Application of the substance/the preparation: Chemical intermediate; chemical speciality
Manufacturer/Supplier: VUP, a.s.
Nábrežná 4
971 04 Prievidza, Slovakia
Tel: 00421-46-5430841
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2 Hazards identification

Classification according to Regulation (EC) No 1272/2008

Skin Irrit. 2
Eye Irrit. 2

Label elements

Pictograms: 

Signal word: Warning

Hazard statements:

H315: Causes skin irritation.
H319: Causes serious eye irritation.

Precautionary statements:

P264: Wash ... thoroughly after handling.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352: IF ON SKIN: Wash with 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.
P321: Specific treatment (see ... on this label).
P337+P313: Get medical advice/attention.

Classification and labelling according to Directive 67/548/EEC

Hazard description:



Xi Irritant

Risk Phrases:

R 36 Irritating to eyes.
R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.
S 61 Avoid release to the environment, refer to special instructions/safety data sheet.

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Product name: **2,5,8,11-Tetramethyl-6-dodecyne-5,8-diol**

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3 Composition/information on ingredients

Synonyms: 2,5,8,11-Tetramethyldodec-6-yne-5,8-diol; surfynol 124
Molecular Formula: C₁₆H₃₀O₂
Molecular Weight: 254.41 g/mol

Name	CAS	EINECS	Classification	Concentration
2,5,8,11-Tetramethyl-6-dodecyne-5,8-diol	68227-33-8	269-348-0	Skin Irrit. 2; Eye Irrit. 2; H315; H319; Xi, R36, R52/53	min. 99 %

For the full text of the H-Statements mentioned in this Section, see Section 2.

4 First aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5 Fire-fighting measures

Suitable extinguishing media:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters:

Wear self-contained breathing apparatus and protective clothing to. Prevent contact with skin and eyes. Unusual fire and explosions hazards. Emits toxic fumes under fire conditions.

6 Accidental release measures

Personal precautions:

Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves.

Environmental precautions:

Do not let product enter drains.

Methods for cleaning up:

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

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Product name: **2,5,8,11-Tetramethyl-6-dodecyne-5,8-diol**

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7 Handling and storage

Handling: Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Storage: Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

8 Exposure controls/personal protection

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection: The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Handle with gloves.

Eye protection: Safety glasses

Skin and body protection: Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures: Handle in accordance.

9 Physical and chemical properties

Appearance

Physical State: solid
Color: white
Odour: peppermint odour

Safety data

pH: not available
Boiling Point: 286 °C
Freezing/Melting Point: 59 °C
Flash Point: 160 °C
Autoignition Temperature: 260 °C
Explosion Limits, lower: 0.5 % vol. (estimate calculation)
Explosion Limits, upper: 5.1 % vol. (estimate calculation)
Vapour pressure: 0.00218 hPa at 21 °C
Vapour density (air=1): 8.82
Viscosity: 61 mPas at 60 °C
Gravity: 850 kg/m³ at 70 °C

10 Stability and reactivity

Chemical stability:

Stable under recommended storage conditions.

Materials to avoid:

Strong oxidizing agents, reactive metals, sodium and calcium hypochlorite, strong bases.

Hazardous decomposition products:

Hazardous decomposition products formed under fire conditions. - Carbon oxides, flammable hydrocarbons (acetylene), aldehydes, ketones.

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Product name: **2,5,8,11-Tetramethyl-6-dodecyne-5,8-diol**

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11 Toxicological information

Acute toxicity:

oral-rat LD₅₀ = 12 900 mg/kg

inhal-rat LC₅₀ > 20.1 mg/l (1 h)

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Potential Health Effects

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.

Skin: May be harmful if absorbed through skin. Causes skin irritation.

Eyes: Causes serious eye irritation.

Ingestion: May be harmful if swallowed.

12 Ecological information

Data are not available.

13 Disposal considerations

Product

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

14 Transport information

Land transport ADR/RID

Not regulated as a hazardous material.

Maritime transport IMDG

Not regulated as a hazardous material.

Air transport ICAO-TI and IATA-DGR

Not regulated as a hazardous material.

15 Regulatory information

This safety datasheet complies with the requirements of Regulation No 1907/2006/EC, Regulation No 1272/2008/EC and Regulation No 453/2010.

16 Other information

This Safety Data Sheet is not a Product Specification. It is based on our present knowledge and experience and it is intended to serve as a guide for safe handling of the product regarding to health and environmental aspects.

Abbreviations and acronyms:

CAS Chemical Abstracts Service registry number

EC European Commission number (for European Inventory of Existing Chemical Substances)

Skin Irrit. Skin Irritation

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Product name: **2,5,8,11-Tetramethyl-6-dodecyne-5,8-diol**

Eye Irrit.	Eye Irritation
LD ₅₀	Median lethal dose
LC ₅₀	Lethal concentration, 50 percent
ADR	Accord européen sur le transport des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID	Règlement internationale concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG	International Maritime Code for Dangerous Goods
ICAO	International Civil Aviation Organization
ICAO-TI	Technical Instructions by the "International Civil Aviation Organization" (ICAO)
IATA	International Air Transport Association
IATA-DGR	Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

Classification according to Regulation (EC) No 1272/2008

Skin Irrit. 2

Eye Irrit. 2

Hazard statements:

H315: Causes skin irritation.

H319: Causes serious eye irritation.

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Risk Phrases:

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