



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-Dimethyl-3-hexyne-2,5-diol**
Application of the substance/the preparation: Chemical intermediate; chemical speciality
Manufacturer/Supplier: VUP, a.s.
Nábrežná 4
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2 Hazards identification**Classification according to Regulation (EC) No 1272/2008**

Skin Sens. 1
Resp. Sens. 1

Label elements**Pictograms:****Signal word:** Danger**Hazard statements:**

H317: May cause an allergic skin reaction.
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statements:

P261: Avoid breathing dust.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P285: In case of inadequate ventilation wear respiratory protection.
P302+P352: IF ON SKIN: Wash with soap and water.
P304+P341: IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P501: Dispose of contents/container to accordance with national regulations.

Classification and labelling according to Directive 67/548/EEC**Hazard description:**

Xn Harmful

Risk Phrases:

R 42/43 May cause sensitization by inhalation and skin contact.

Safety Phrases:

S 7 Keep container tightly closed.
S 36 Wear suitable protective clothing.

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Product name: **2,2-Dimethyl-3-hexyne-2,5-diol**

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3 Composition/information on ingredients

Synonyms: 2,5-Dimethylhexyne-2,5-diol
Molecular Formula: C₈H₁₄O₂
Molecular Weight: 142.2 g/mol

Name	CAS	EINECS	Classification	Concentration
2,2-Dimethyl-3-hexyne-2,5-diol	142-30-3	205-533-4	Skin Sens. 1; Resp. Sens. 1 H317; H334; Xn, R42/43	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 for fire fighting if necessary.

6 Accidental release measures

Personal precautions:

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

Environmental precautions:

Do not let product enter drains.

Methods for cleaning up:

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

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Product name: **2,2-Dimethyl-3-hexyne-2,5-diol**

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7 Handling and storage

Handling: 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:

Face shield and 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 with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9 Physical and chemical properties

Appearance

Form: crystalline
Color: white to yellowish

Safety data

pH: not available
Boiling Point: 121 – 123 °C at 7.00 mm Hg
Freezing/Melting Point: 90 - 94 °C
Solubility in water: 240 g/l at 20 °C
Autoignition Temperature: Not available
Flash Point: Not available
Explosion Limits, lower: 1.2 % (V)

10 Stability and reactivity

Storage stability:

Stable under recommended storage conditions.

Materials to avoid:

Strong acids, Strong oxidizing agents, Strong reducing agents, Acid chlorides, Acid anhydrides, Strong bases, Alcohols, Chemically active metals.

Hazardous decomposition products:

Hazardous decomposition products formed under fire conditions. - Carbon oxides.

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11 Toxicological information

Acute toxicity: no data available

Irritation and corrosion: no data available

Sensitisation: Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

Chronic exposure

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.

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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.

Additional Information:

RTECS: MR0176000

12 Ecological information

Data not yet 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.

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Product name: **2,2-Dimethyl-3-hexyne-2,5-diol**

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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 Sens.	Skin Sensitization
Resp. Sens.	Respiratory Sensitization
RTECS	Registry of Toxic Effects of Chemical Substances
ADR	Accord européen sur le transport des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID	Reglement internationale concernent 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)

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Resp. Sens. 1

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