



SAFETY DATA SHEET (SDS)

Prepared in accordance with the Globally Harmonized System (GHS) and Regulation (EC) No. 1907/2006 (REACH, as amended)

SECTION 1: Identification

Product Name: Dihydrorosan®

Manufacturer: BASF SE

Chemical Name: Tetrahydro-2-isobutyl-4-methyl-2H-pyran

Trade Name: Dihydrorosan®

CAS Number: 13477-62-8

EC Number: 236-770-1

REACH Registration Number: 01-2120079767-37-0000

Molecular Formula: C₁₀ H₂₀ O

Molecular Weight: 156.27 g/mol

Product Type: Aroma Chemical

Grade: Premium Perfumery Grade

Recommended Use: Professional perfumery, cosmetic, soap and detergent fragrance ingredient.

Supplier

Aromology Trading LLC

G05 Al Ghazal Building

Nadd Al Hamar

Dubai, United Arab Emirates

Website: www.aromology.com

Email: info@aromology.com

Telephone: +971 505197601

SECTION 2 – HAZARD IDENTIFICATION

GHS Classification

- Flammable Liquid – Category 4
- Skin Irritation – Category 2
- Hazardous to the Aquatic Environment (Acute) – Category 3
- Hazardous to the Aquatic Environment (Chronic) – Category 3

Signal Word



Warning

Hazard Statements

- H227 Combustible liquid.
- H315 Causes skin irritation.
- H402 Harmful to aquatic life.
- H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements

- P210 Keep away from heat, hot surfaces, sparks and open flames.
- P264 Wash thoroughly after handling.
- P273 Avoid release to the environment.
- P280 Wear protective gloves and eye protection.
- P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- P332+P313 If skin irritation occurs: Get medical advice.
- P501 Dispose of contents/container in accordance with local regulations.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Component	Information
Product	Dihydrorosan®
Chemical Name	Tetrahydro-2-isobutyl-4-methyl-2H-pyran
CAS Number	13477-62-8
EC Number	236-770-1
Purity	≥98%

SECTION 4 – FIRST AID MEASURES

Inhalation: Move exposed person to fresh air. Seek medical advice if symptoms persist.

Skin Contact: Remove contaminated clothing and wash skin thoroughly with soap and water.

Eye Contact: Rinse cautiously with water for at least 15 minutes. Obtain medical attention if irritation persists.

Ingestion: Rinse mouth. Do not induce vomiting. Seek medical advice if unwell.



SECTION 5 – FIRE FIGHTING MEASURES

Suitable Extinguishing Media

- Alcohol-resistant foam
- Dry chemical powder
- Carbon dioxide
- Water spray

Hazardous Combustion Products

Carbon monoxide, carbon dioxide and irritating organic vapours.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Wear suitable personal protective equipment.

Prevent entry into drains and waterways.

Absorb with inert material and place into suitable waste containers.

SECTION 7 – HANDLING AND STORAGE

Use only in well-ventilated areas.

Avoid contact with skin and eyes.

Store tightly closed in the original container.

Protect from heat, direct sunlight and strong oxidising agents.

Recommended Storage Temperature: 15–25 °C.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

- Chemical safety goggles
 - Nitrile gloves
 - Protective clothing
 - Local exhaust ventilation where necessary
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SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Property	Specification
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Appearance	Clear mobile liquid
Colour	Colourless
Odour	Rose, green, geranium, fresh floral
Relative Density (20 °C)	0.838–0.853
Refractive Index (20 °C)	1.4300–1.4340
Flash Point	Approximately 62 °C
Solubility in Water	Sparingly soluble
Solubility	Soluble in ethanol and most organic solvents
Assay	Sum of isomers >98% (cis 65–85%, trans 15–35%)

SECTION 10 – STABILITY AND REACTIVITY

Stable under recommended storage conditions.

Avoid:

- Heat
- Sparks
- Open flames
- Strong oxidising agents

Thermal decomposition may produce carbon monoxide and carbon dioxide.

SECTION 11 – TOXICOLOGICAL INFORMATION

Low acute toxicity under normal industrial handling conditions.

Causes skin irritation.

No evidence of significant chronic health effects when used in accordance with good industrial hygiene practices.

SECTION 12 – ECOLOGICAL INFORMATION

Harmful to aquatic organisms with long lasting effects.

Prevent uncontrolled release into waterways.

SECTION 13 – DISPOSAL CONSIDERATIONS

Dispose of contents and packaging through an authorised waste disposal contractor in accordance with local regulations.

SECTION 14 – TRANSPORT INFORMATION



Regulation	Status
UN Number	Not Regulated
ADR/RID	Not Regulated
IMDG	Not Regulated
IATA	Not Regulated

SECTION 15 – REGULATORY INFORMATION

Prepared in accordance with:

- GHS Revision 9
- OSHA Hazard Communication Standard (29 CFR 1910.1200)
- Regulation (EC) No. 1907/2006 (REACH)
- Regulation (EU) 2020/878

SECTION 16 – OTHER INFORMATION

Dihydrorosan® BASF (CAS 13477-62-8) is a specialty aroma ingredient with a clean rose, green, geranium and muguet profile enhanced by subtle citrus freshness. It is widely used in fine fragrance, personal care products, soaps and detergents to impart fresh floral lift, natural rose character and excellent diffusion. The material consists predominantly of cis and trans isomers of tetrahydro-2-isobutyl-4-methyl-2H-pyran and is supplied with a minimum assay exceeding 98%.

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Prepared By:

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