



# Safety Data Sheet

This safety data sheet complies with the requirements of:  
US OSHA Hazard Communication Standard (29 CFR 1910.1200)

**Product code**  
10049-01  
**Product name**  
FLOROL

**Issuing Date** 24-Sep-2024

**Revision date** 24-Sep-2024

**Version** 2

## 1. Identification

### Product identifier

**Product name** FLOROL

### Other means of identification

**Product code** 10049-01

**Synonyms** 2H-Pyran-4-ol, tetrahydro-4-methyl-2-(2-methylpropyl)-  
Florol  
Pyranol

### Recommended use of the chemical and restrictions on use

**Recommended Use** Industry Use

**Restrictions on use** No information available

### Details of the supplier of the safety data sheet

#### Supplier Address

Tilley Distribution  
355 Chestnut Street  
Norwood, NJ 07648  
Phone: (201) 784-6100 Fax: (201) 784-8566

### Emergency telephone number

**Company Phone Number** Use CHEMTREC instead of Emergency Phone Number

**Emergency telephone** Chemtrec 1-800-424-9300  
Contract# CCN22338

## 2. Hazard(s) identification

### Classification

|                                   |             |
|-----------------------------------|-------------|
| Serious eye damage/eye irritation | Category 2A |
|-----------------------------------|-------------|

### Hazards not otherwise classified (HNOC)

Not applicable

### Label elements

**Warning****Hazard statements**

Causes serious eye irritation

**Appearance** Clear**Physical state** Liquid**Odor** Characteristic odor**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling

Wear eye protection/ face protection

**Precautionary Statements - Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 If eye irritation persists: Get medical advice/attention

**Precautionary Statements - Storage** Store in accordance with local regulations**Precautionary Statements - Disposal** Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable**Other Information**

No information available.

**3. Composition/information on ingredients****Substance****Synonyms**

2H-Pyran-4-ol, tetrahydro-4-methyl-2-(2-methylpropyl)-  
 Florol.  
 Pyranol.

**Chemical Family**

Cyclic ether.

**Formula**

C10H20O2

| Chemical name | CAS No.    | Weight-% | Food additive code |
|---------------|------------|----------|--------------------|
| Florosa       | 63500-71-0 | 100      | N/A                |

**4. First-aid measures****Description of first aid measures****General advice**

Show this safety data sheet to the doctor in attendance.

**Inhalation**

Remove to fresh air.

**Eye contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
 Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open

|  |   |
|--|---|
|  | while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.           |
| <b>Skin contact</b>  | Wash skin with soap and water.  |
| <b>Ingestion</b>   | Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician. |
| <b>Self-protection of the first aider</b>  | Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).                 |
| <b><u>Most important symptoms and effects, both acute and delayed</u></b>                |   |
| <b>Symptoms</b>  | May cause redness and tearing of the eyes. Burning sensation.   |
| <b><u>Indication of any immediate medical attention and special treatment needed</u></b> |   |
| <b>Note to physicians</b>  | Treat symptomatically.  |

## 5. Fire-fighting measures

|   |  |
|---|--|
| <b>Suitable Extinguishing Media</b>                                   | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.                            |
| <b>Large Fire</b>   | CAUTION: Use of water spray when fighting fire may be inefficient.   |
| <b>Unsuitable extinguishing media</b>                                 | Do not scatter spilled material with high pressure water streams.  |
| <b>Specific hazards arising from the chemical</b>                     | No information available.  |
| <b>Explosion data</b>   |  |
| <b>Sensitivity to mechanical impact</b>                               | None.  |
| <b>Sensitivity to static discharge</b>                                | None.  |
| <b>Special protective equipment and precautions for fire-fighters</b> | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. |

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

|                             |   |
|-----------------------------|---|
| <b>Personal precautions</b> | Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. |
| <b>Other information</b>    | Refer to protective measures listed in Sections 7 and 8.                                  |

### Methods and material for containment and cleaning up

|                                |   |
|--------------------------------|---|
| <b>Methods for containment</b> | Prevent further leakage or spillage if safe to do so. |
| <b>Methods for cleaning up</b> | Pick up and transfer to properly labeled containers.  |

## 7. Handling and storage

### Precautions for safe handling

|                                |   |
|--------------------------------|---|
| <b>Advice on safe handling</b> | Handle in accordance with good industrial hygiene and safety practice. Avoid contact with |
|--------------------------------|---|

skin, eyes or clothing. Do not eat, drink or smoke when using this product.

#### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

### **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.

#### Appropriate engineering controls

**Engineering controls** Showers  
Eyewash stations  
Ventilation systems.

#### Individual protection measures, such as personal protective equipment

**Eye/face protection** If splashes are likely to occur, wear safety glasses with side-shields.

**Hand protection** Wear suitable gloves.

**Skin and body protection** Wear suitable protective clothing.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations** Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

### **9. Physical and chemical properties**

#### Information on basic physical and chemical properties

**Physical state** Liquid  
**Appearance** Clear  
**Color** Colorless  
**Odor** Characteristic odor  
**Odor threshold** No information available

| <u>Property</u>                       | <u>Values</u>     | <u>Remarks • Method</u>       |
|---------------------------------------|-------------------|-------------------------------|
| <b>pH</b>                             | No data available | None known                    |
| <b>Melting point / freezing point</b> | No data available | None known                    |
| <b>Boiling point / boiling range</b>  | No data available | None known                    |
| <b>Flash Point</b>                    | 102 °C / 216 °F   | CC (closed cup)               |
| <b>Evaporation Rate</b>               | No data available | None known                    |
| <b>Flammability (solid, gas)</b>      | No data available | None known                    |
| <b>Flammability Limit in Air</b>      |                   | None known                    |
| <b>Upper flammability limit:</b>      | No data available |                               |
| <b>Lower flammability limit:</b>      | No data available |                               |
| <b>Vapor pressure</b>                 | 0.0071 mmHg       | (20°C) Calculated - EPI Suite |

|                           |                   |            |
|---------------------------|-------------------|------------|
| Vapor Density             | No data available | None known |
| Relative density          | No data available | None known |
| Water solubility          | No data available | None known |
| solubility(ies)           | No data available | None known |
| Partition coefficient     | No data available | None known |
| Autoignition Temperature  | No data available | None known |
| Decomposition temperature | No data available | None known |
| Kinematic viscosity       | No data available | None known |
| Dynamic viscosity         | No data available | None known |

**Other information**

|                      |                          |
|----------------------|--------------------------|
| Explosive properties | No information available |
| Oxidizing properties | No information available |
| Softening point      | No information available |
| Molecular weight     | 172.68                   |
| VOC content          | No information available |
| Density              | No information available |
| Bulk Density         | No information available |

**10. Stability and reactivity**

|                                    |   |
|------------------------------------|---|
| Reactivity                         | No information available.                 |
| Chemical stability                 | Stable under normal conditions.           |
| Possibility of hazardous reactions | None under normal processing.             |
| Conditions to avoid                | None known based on information supplied. |
| Incompatible materials             | None known based on information supplied. |
| Hazardous decomposition products   | None known based on information supplied. |

**11. Toxicological information****Information on likely routes of exposure****Product Information**

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.   |
| <b>Eye contact</b>  | Avoid contact with eyes. Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain. |
| <b>Skin contact</b> | Specific test data for the substance or mixture is not available. May cause irritation. Prolonged contact may cause redness and irritation.  |
| <b>Ingestion</b>    | Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.                                      |

**Symptoms related to the physical, chemical and toxicological characteristics**

|                 |  |
|-----------------|--|
| <b>Symptoms</b> | May cause redness and tearing of the eyes. |
|-----------------|--|

**Acute toxicity****Numerical measures of toxicity**

**Component Information**

| Chemical name         | Oral LD50 | Dermal LD50             | Inhalation LC50 |
|-----------------------|-----------|-------------------------|-----------------|
| Florosa<br>63500-71-0 | -         | > 2000 mg/kg ( Rabbit ) | -               |

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

|  |  |
|--|--|
| <b>Skin corrosion/irritation</b>         | No information available.  |
| <b>Serious eye damage/eye irritation</b> | Classification based on data available for ingredients. Causes serious eye irritation.               |
| <b>Respiratory or skin sensitization</b> | No information available.  |
| <b>Germ cell mutagenicity</b>            | No information available.  |
| <b>Carcinogenicity</b>                   | No information available.  |
| <b>Reproductive toxicity</b>             | This product does not contain any known or suspected reproductive hazards above the threshold value. |
| <b>STOT - single exposure</b>            | No information available.  |
| <b>STOT - repeated exposure</b>          | No information available.  |
| <b>Aspiration hazard</b>                 | No information available.  |
| <b>Other adverse effects</b>             | No information available.  |
| <b>Interactive effects</b>               | No information available.  |

**12. Ecological information**

|                                      |   |
|--------------------------------------|---|
| <b>Ecotoxicity</b>                   | The environmental impact of this product has not been fully investigated. |
| <b>Persistence and degradability</b> | Not readily biodegradable.  |

**Bioaccumulation**

| Chemical name         | Partition coefficient |
|-----------------------|-----------------------|
| Florosa<br>63500-71-0 | 1.65                  |

|                              |                           |
|------------------------------|---------------------------|
| <b>Other adverse effects</b> | No information available. |
|------------------------------|---------------------------|

### 13. Disposal considerations

#### Waste treatment methods

|  |   |
|--|---|
| <b>Waste from residues/unused products</b> | Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. |
| <b>Contaminated packaging</b>              | Do not reuse empty containers.  |

### 14. Transport Information

|             |               |
|-------------|---------------|
| <b>DOT</b>  | Not Regulated |
| <b>IATA</b> | Not Regulated |
| <b>IMDG</b> | Not Regulated |

### 15. Regulatory information

#### US Federal Regulations

##### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

##### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

##### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

#### US State Regulations

##### U.S. State Right-to-Know Regulations

This product does not contain any substances regulated by state right-to-know regulations

**EPA Pesticide registration number** Not applicable

### 16. Other information

|             |                         |                       |                           |                              |
|-------------|-------------------------|-----------------------|---------------------------|------------------------------|
| <b>NFPA</b> | <b>Health hazards</b> 2 | <b>Flammability</b> 1 | <b>Instability</b> 0      | <b>Special hazards</b> -     |
| <b>HMIS</b> | <b>Health hazards</b> 2 | <b>Flammability</b> 1 | <b>Physical hazards</b> 0 | <b>Personal Protection</b> X |

#### Key or legend to abbreviations and acronyms used in the safety data sheet

##### **LEG8 SECTION 8: Exposure controls/personal protection**

|         |                             |      |                                  |
|---------|-----------------------------|------|----------------------------------|
| TWA     | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value         | *    | Skin designation                 |

#### **Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database  
European Food Safety Authority (EFSA)  
Environmental Protection Agency  
Acute Exposure Guideline Level(s) (AEGl(s))  
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
U.S. Environmental Protection Agency High Production Volume Chemicals  
Food Research Journal  
Hazardous Substance Database  
International Uniform Chemical Information Database (IUCLID)  
National Institute of Technology and Evaluation (NITE)  
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
NIOSH (National Institute for Occupational Safety and Health)  
National Library of Medicine's ChemID Plus (NLM CIP)  
National Library of Medicine's PubMed database (NLM PUBMED)  
U.S. National Toxicology Program (NTP)  
New Zealand's Chemical Classification and Information Database (CCID)  
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
Organization for Economic Co-operation and Development Screening Information Data Set  
World Health Organization

**Revision date** 24-Sep-2024  
**Revision note** No information available.

**Disclaimer**

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text. Classification and labeling according to the IFRA/IOFI Labeling Manual 2023.

End of Safety Data Sheet

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