

SAFETY DATA SHEET

Revision Number 1 Revision date 27-May-2015

1. Identification of the Substance/Preparation and of the Company/Undertaking

Product identifier

Product Code C127684

Product name FLORANTONE® T

Other means of identification

Synonyms No information available

Recommended use of the chemical and restrictions on use

Recommended use Concentrated aromatic raw material intended for manufacturing use

Details of the Supplier of the Safety Data Sheet

Supplier Address

Takasago International Corporation (USA)

4 Volvo Drive

Rockleigh, NJ 07647 USA Phone: 1-201-767-9001

Emergency Telephone Number

Company Phone Number Health & Environmental: 1-201-767-9001 9 a.m - 5 p.m. EST M-F

Emergency Telephone Number CHEMTREC: 1-800-424-9300 24 hours Everyday

CHEMTREC (International): 01-703-527-3887 [U.S.A.] 24 hours Everyday

2. Hazard identification

Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements

The product contains no substances which at their given concentration, are considered to be hazardous to health

Hazards Not Otherwise Classified (HNOC)

None known

Other Information

Other Hazards None known

Unknown acute toxicity No information available

3. Composition/information on Ingredients

Formula C12H14O

Hazardous components

	CAS No	Weight-%	Trade secret
1-(5,6,7,8-Tetrahydro-2-naphthyl)ethan-1-one	774-55-0	>=98%	*

4. First aid measures

FIRST AID MEASURES

General advice When in doubt or if symptoms are observed, get medical advice.

Inhalation Remove casualty to fresh air and keep warm and at rest. In case of respiratory tract

irritation, consult a physician.

Skin Contact Change contaminated, saturated clothing. After contact with skin, wash immediately with

plenty of water and soap. In case of skin reactions, consult a physician.

Eye contact In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15

minutes holding eyelids apart and consult an ophthalmologist.

Ingestion If accidentally swallowed rinse the mouth with plenty of water (only if the person is

conscious) and obtain immediate medical attention. Do NOT induce vomiting.

Self-protection of the first aider Use personal protection recommended in Section 8.

Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms No known symptoms to date.

Indication of Any Immediate Medical Attention and Special Treatment Needed

5. Fire-fighting measures

Suitable extinguishing media

Foam. Carbon dioxide (CO2). Dry extinguishing powder.

Large Fire Alcohol resistant foam. Water spray.

Unsuitable extinguishing media Full water jet.

Specific hazards

In case of fire may be liberated, Carbon monoxide, Carbon dioxide (CO2), Burning produces heavy smoke, Do not inhale explosion and combustion gases.

Protective equipment and precautions for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Use water spray jet to protect personnel and to cool endangered containers. Move undamaged containers from immediate hazard area if it can be done safely. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Use personal protection recommended in Section

8. Remove all sources of ignition. Provide adequate ventilation as well as local exhaustion

at critical locations. See section 7 for more information.

Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Ensure waste is collected and contained.

Methods and material for containment and cleaning up

Methods for cleaning up Clean contaminated surface thoroughly.

7. Handling and Storage

Precautions for Safe Handling

Advice on safe handling Avoid contact with skin, eyes or clothing. Wear protective gloves and eye/face protection.

See Section 8 for information on appropriate personal protective equipment. Remove all sources of ignition. Provide adequate ventilation as well as local exhaustion at critical

locations. Handle and open container with care.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a cool, well-ventilated place. Store in a dry place. Protect

from direct sunlight. Remove all sources of ignition. Keep away from sources of heat (e.g.

hot surfaces), sparks and open flames.

8. Exposure Controls/Personal Protection

Control Parameters

Exposure guidelines This product does not contain any substances with occupational exposure limits established

by OSHA under 29 CFR 1910 subpart Z, ACGIH or NIOSH.

Appropriate Engineering Controls

Engineering Controls Provide adequate ventilation as well as local exhaustion at critical locations. Do not subject

to unnecessarily high temperatures during processing.

Individual protection measures, such as personal protective equipment

Eye/face protection Eye glasses with side protection.

Hand Protection Wear chemically resistant gloves in combination with 'basic' employee training.

Skin and body protectionWear appropriate personal protective clothing to prevent skin contact.

Respiratory protectionNo protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should

be worn.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. Wash hands before

breaks and after work. Do not eat, drink or smoke when using this product.

FEMA Statement This product does not contain any substances at ≥0.1% listed as High Priority in Table 1 of

the Flavor and Extract Manufacturers Association of the United States Respiratory Health

and Safety in the Flavor Manufacturing Workplace (2012 edition)

This product does not contain any substances at ≥1.0% listed as Low Priority in Table 1 of the Flavor and Extract Manufacturers Association of the United States Respiratory Health

and Safety in the Flavor Manufacturing Workplace (2012 edition)

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance Liquid

Color Colorless to pale yellow Odor Floral, orange flower, musk

Odor threshold No data available

Closed cup, ISO 2719:2002

<u>Property</u> <u>VALUES</u> <u>Remarks • Method</u>

pH No data available
Melting point / freezing point
Boiling point / boiling range
Flash Point
No data available
No data available
154 °C / 309 °F

Evaporation rate No data available Flammability (solid, gas) No data available

Flammability Limit in Air

Upper Flammability Limit
Lower Flammability Limit
No data available
No data available

Vapor pressure 0.00215 mmHg@20°C (calculated)

Vapor Density No data available

 Relative Density
 1.050-1.070 (D20°C/20°C)

 Relative Density
 1.047-1.067 (D25°C/25°C)

Water Solubility Insoluble in water Solubility in Other Solvents soluble in Alcohol

Partition coefficient log Kow = 3.64 (calculated)

Autoignition TemperatureNo data availableDecomposition temperatureNo data availableKinematic viscosityNo data availableDynamic viscosityNo data availableExplosive PropertiesNo data availableOxidizing PropertiesNo data available

Other Information

Molecular weight 174.24

Refractive Index 1.555-1.600 (n20°C/D)

10. Stability and Reactivity

Reactivity

None under normal use conditions.

Chemical Stability

Stable under normal conditions. Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to Avoid

Extremes of temperature and direct sunlight. Do not heat closed containers.

Incompatible Materials

Strong oxidizing agents. Strong acids. Strong bases.

Hazardous Decomposition Products

None under normal use.

11. Toxicological Information

Information on Likely Routes of Exposure

Product Information No data available.

Inhalation No data available.

Eye contact No data available.

Skin Contact No data available.

Ingestion No data available.

Information on Toxicological Effects

Symptoms No information available.

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

Skin Corrosion/Irritation A 23-hour occlusive patch test conducted on humans with 5% product in Vaseline produced

no irritation.

Sensitization A guinea pig maximization test at concentrations up to 20% in acetone produced no

sensitization reactions.

Mutagenic effects Not mutagenic in AMES Test.

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA,

IARC or NTP.

Reproductive Toxicity
STOT - Single Exposure
STOT - Repeated Exposure
Aspiration Hazard

No information available.
No information available.
No information available.

Numerical Measures of Toxicity - Product Information

Oral LD50 2700 mg/kg (rats)

12. Ecological Information

Ecotoxicity No information available

Persistence and Degradability No information available.

Bioaccumulation No information available

Other Adverse Effects No information available

13. Disposal Considerations

Waste Treatment Methods

Waste disposal method Dispose of in accordance with local regulations.

Contaminated Packaging Do not reuse container.

14. Transport Information

DOT Non-bulk Packaging

UN/ID no Not regulated
Proper Shipping Name Not regulated
Hazard class Not regulated
Packing group Not regulated
Marine Pollutant Not applicable

Air transport

UN/ID no Not regulated
Proper Shipping Name Not regulated
Hazard class Not regulated
Packing group Not regulated

IMDG/IMO

UN/ID no Not regulated

Proper Shipping NameNot regulatedHazard classNot regulatedPacking groupNot regulatedMarine PollutantNot applicable

15. Regulatory Information

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

SARA 311/312 Hazardous Categorization

Acute health hazard	No
Chronic health hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

16. Other Information

Revision date 27-May-2015

Disclaimer

The information in this MSDS was obtained from current and reputable sources. However, the data is provided without any warranty, express or implied regarding its accuracy. Where the handling, storage and disposal of this material is beyond the immediate control of Takasago International Corporation, it shall be the user's responsibility to determine safe conditions for the use of this product. The user assumes all liability for loss, injury damage or expense resulting from the improper use of this product.

End of Safety Data Sheet