

SAFETY DATA SHEET

This SDS complies with the requirements of JIS Z 7253 (Japan)



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Version 8

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name AMBRETONE

Supplier Takasago International Corporation
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Recommended use Aroma/Fine chemical ingredients
For industrial use only

Restrictions on use Prohibition of use other than recommended one

Safety data sheet number 2-950055102

2. HAZARD IDENTIFICATION

GHS Classification

Acute aquatic toxicity	Category 1 - (H400)
Chronic Aquatic Toxicity	Category 1 - (H410)

Label Elements

Hazard pictograms



Signal word

Warning

Hazard Statements

Very toxic to aquatic life with long lasting effects

Precautionary Statements - Prevention

Avoid release to the environment

Precautionary Statements - Response

Collect spillage

Precautionary Statements - Storage

Not applicable

Precautionary Statements - Disposal

Dispose of contents/containers in accordance with local regulations

Other Hazards

None known

3. COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture Aroma/Fine chemical

Hazardous ingredients

Chemical name	CAS No	Concentration	GHS Classification
5-Cyclohexadecen-1-one	37609-25-9	>=90 - 100%	Acute Tox. 5 (H303) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)

Pollutant Release Transfer Register Not Applicable

Industrial Safety and Health Law

Industrial Safety and Health Law (Law Art 57-2) Not Applicable

Organic solvents (ISHL Enforcement Order, Table 6-2) Not applicable

Specified Chemical Substances (Ministry of Labor Ordinance No. 39) Not applicable

Poisonous and Deleterious Substances Control Law Not Applicable

4. 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.
Note to physicians	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Foam Carbon dioxide (CO2) Dry extinguishing powder Sand
Large Fire	Alcohol resistant foam Water spray
Unsuitable extinguishing media	Full water jet

Special hazards arising from the substance or mixture	In case of fire may be liberated Carbon monoxide Carbon dioxide (CO ₂) Burning produces heavy smoke Do not inhale explosion and combustion gases
Specific extinguishing methods	Use water spray jet to protect personnel and to cool endangered containers
Special protective equipment for fire-fighters	Wear a self-contained breathing apparatus and chemical protective clothing 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 exhaust at critical locations. See section 7 for more information.
For emergency responders	Use personal protection recommended in Section 8.

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

Small spill:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Large spill:	For large spills contain the material using barriers of absorbent pigs or similar.

Prevention of secondary hazards

Remove all sources of ignition. Use only non-sparking tools.

7. HANDLING AND STORAGE

Handling

Technical measures	Provide adequate ventilation as well as local exhaust at critical locations.
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. Handle and open container with care.

Storage

Storage conditions	Store container tightly closed in a cool, dry, well-ventilated place. Keep away from source of ignition.
Suitable container/equipment material	Keep only in the original container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits None

Engineering controls Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Respiratory protection If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Any air-purifying half-mask respirator equipped with cartridge(s) providing protection against the compound of concern. Air-purifying, full-facepiece respirator (gas mask) with a chin-style, front- or back-mounted canister.

Hand protection Protective gloves. Impervious gloves.

Eye/face protection Eye glasses. Wear safety glasses with side shields (or goggles).

Skin and body protection Protective clothing. Impervious clothing. Protective shoes or boots.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Liquid

Color Clear and colorless

Odor Characteristic

Melting point / freezing point No data available

Boiling point / boiling range No data available

Flammability (solid, gas) No data available

Flammability limit in air

Upper flammability limit No data available

Lower flammability limit No data available

Flash point 170.0 °C / 338 °F Cleveland Open Cup

Autoignition temperature No data available

Decomposition temperature No data available

pH No data available

Kinematic viscosity No data available

Water solubility Insoluble in water

Solubility in other solvents No data available

Partition coefficient: n-octanol/water No data available

Vapor pressure No data available

Density and/or relative density

Specific gravity 0.920-0.940 @ 20 °C

Specific gravity 0.919-0.939 @ 25 °C

Vapor density No data available

Particle characteristics No data available

Other information

Refractive Index 1.485-1.495 @ 20 °C

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.

Incompatible materials Strong oxidizing agents. Strong acids. Strong bases.

Hazardous decomposition products None under normal use conditions.

11. TOXICOLOGICAL INFORMATION

Acute toxicity	No information available
Skin corrosion/irritation	No information available
Serious eye damage/irritation	No information available
Respiratory or skin sensitization	No information available
Germ cell mutagenicity	No information available
Carcinogenicity	No information available
Reproductive toxicity	No information available
Specific target organ toxicity - Single exposure	No information available
Specific target organ toxicity - Repeated exposure	No information available
Aspiration hazard	No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity	No information available
Persistence and degradability	No information available
Bioaccumulative potential	No information available
Mobility in soil	No information available
Hazard to the ozone layer	No information available
Other adverse effects	No information available

13. DISPOSAL CONSIDERATIONS

Waste from residues/unused products	Dispose of in accordance with local regulations.
Contaminated packaging	Do not reuse container. Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

Sea transport (IMDG)

UN/ID no	3082
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s. (5-Cyclohexadecen-1-one)
Hazard Class	9
Packing group	III
Marine Pollutant	Yes

Air transport (ICAO-TI / IATA-DGR)

UN/ID no 3082
Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s.
(5-Cyclohexadecen-1-one)
Hazard Class 9
Packing group III
Environmental Hazard Yes

Special precautions for user

Emergency Response Guide Number 171

National regulations In accordance with local and national regulations. See section 15.

15. REGULATORY INFORMATION

Fire Service Law: Category IV Class III Petroleums water-insoluble Grade III

Industrial Safety and Health Law: Not Applicable

Carcinogens list (ISHL Art 577-2-3) Not applicable

Mutagens list (ISHL Art 57-4,5) Not applicable

Skin and eye damage list (ISHL Art 594-2) Not applicable

Pollutant Release and Transfer Register: Not Applicable

Poisonous and Deleterious Substances Control Law: Not Applicable

Ship Safety Law: Environmentally

Marine Pollution Prevention Law (except bulk transport): Marine Pollutant

Japan Food Sanitation Law: Not Applicable

16. OTHER INFORMATION

Full text of H-Statements referred to under section 3

H303 - May be harmful if swallowed

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

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

Ceiling	Maximum limit value	GHS	Globally Harmonized System (GHS)
OEL	Occupational exposure limits	STEL	STEL (Short Term Exposure Limit)
TLV	TLV® (Threshold Limit Value)	TWA	Time-Weighted Average

Hazard Class

Flam. Liq.	Flammable Liquids
Acute Tox.	Acute Toxicity
Skin Irrit.	Skin irritation
Eye Irrit.	Eye irritation
Muta.	Germ cell mutagenicity
Carc.	Carcinogenic
Skin Sens.	Skin sensitization
Aquatic Acute	Hazardous to the Aquatic Environment - Acute Hazard
Aquatic Chronic	Hazardous to the Aquatic Environment - Chronic Hazard

Skin Corr.	Skin corrosion
Eye Dam.	Eye Damage
Asp. Tox.	Aspiration toxicity
STOT SE	Specific target organ toxicity - Single exposure
STOT RE	Specific target organ toxicity - Repeated exposure
Repr.	reproductive toxicant

Key literature references and sources for data

RIFM/IOFI database

Supplier

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End of Safety Data Sheet