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#### Safety Data Sheet

## 1. Chemical product and company identification

Product name :  $\alpha$ -Terpineol

Company information

Name of manufacturer : KANTO CHEMICAL CO., INC.

Address : 2-1, Nihonbashi, Muromachi 2-Chome, Chuo-Ku, Tokyo, 103-0022, JP

Name of section : Business Administration Department, Reagent Division

Telephone number : +81-3-6214-1090Facsimile number : +81-3-3241-1047Mail address : BC32@kanto.co.jp

Reference No : 40022

Recommended use : For research use only

Restrictions on use : Seek expert judgment when using the product for applications other

than those recommended.

## 2. Hazards identification

#### GHS classification

Physical hazards Flammable liquids Category 4
Health hazards Skin corrosion/irritation Category 2
Serious eye damage/eye Category 2A

irritation

Environmental Aquatic acute Category 3

hazards

Hazard pictograms



Signal word : Warning

Hazard statements : Combustible liquid

Causes skin irritation Causes serious eye irritation Harmful to aquatic life

Precautionary statements

Prevention : Keep away from heat, hot surfaces, sparks, open flames and other

ignition sources. No smoking.

Wash hands, forearms and face thoroughly after handling.

Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face

 $\ \ \, \text{protection.}$ 

Response : IF ON SKIN: Wash with plenty of water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

Specific treatment (see supplemental first aid instruction on this

label).

If skin irritation occurs: Get medical advice/attention.



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If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

Storage : Store in a well-ventilated place.

Disposal : Dispose of contents/container to hazardous or special waste

collection point, in accordance with local, regional, national

and/or international regulation.

## 3. Composition/information on ingredients

Distinction of substance or : Substance

mixture

Chemical name	Concentration (%)	Formula	TSCA	EC-No.	CAS RN
α-Terpineol	≥ 95	C10H180	Listed	202-680-6	98-55-5

<sup>\*</sup>Concentration : sum of isomers ( $\alpha$ -,  $\beta$ -,  $\gamma$ -Terpineol).

### 4. First aid measures

## First aid measures

First-aid measures after

inhalation

alrin

First-aid measures after skin

contact

: Wash the affected areas under running water.

First-aid measures after eye

contact

: Wash the affected areas under running water for at least 15

: Remove the victim to fresh air, and make him blow his nose and

minutes. If necessary, get medical treatment.

First-aid measures after

ingestion

: Rinse mouth with water. Give the victim one or two glasses of water or milk. Do not induce vomiting. Get medical treatment as

soon as possible.

gargle.

Personal Protection in First

Aid and Measures

Rescuers should wear proper protective equipment like rubber gloves, goggles.

### 5. Fire fighting measures

Suitable extinguishing media

: Dry chemical, CO2, dry sand, or alcohol-resistant foam

Unsuitable extinguishing media

: Water spray, Foam extinguisher

Firefighting instructions

: Move containers from fire area if it can be done without risk, if

not possible, apply water from a safe distance to cool and

protect surrounding area. Fight fire from windward.

Dry chemical powder, carbon dioxide or dry sand should be used for small fires. Alcohol-resistant foam extinguisher is effective

for a large scale fire.

Personal protection (Emergency

response)

: Firefighters should wear protective equipment.

#### 6. Accidental release measures

### Personal Precautions, Protective Equipment and Emergency Procedures

General measures

: Wear proper protective equipment and avoid contact with skin and inhalation of vapor. Conduct operations from upwind and evacuate



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people downwind. Remove all sources of ignition. Keep away personnel except for authorized ones from spillage area by

stretching ropes.

**Environmental precautions** 

Environmental precautions : Attention should be given to avoid damage to the environment by

flowing of spillage to rivers.

Methods and Equipment for Containment and Cleaning up

For containment : Absorb spill with inert material (e.g, diatomaceous earth,

sand) and flush spillage area with copious amounts of water.

Prevention Measures for Secondary Accidents

: Remove nearby sources of ignition and prepare extinguishing

## 7. Handling and storage

**Handling** 

Technical measures : Wear proper protective equipment to avoid contact with skin or

inhalation of vapor. Pay attention to fire.

Ventilate well at working places.

: Avoid formation of vapor and aerosols. Precautions for safe handling

Do not allow contact with oxidizing substances.

Storage

Storage conditions : Store in a dark, cool place and tightly closed.

Material used in : Glass, fluorine resin, stainless steel.

Not established

packaging/containers

## 8. Exposure controls / Personal protection equipment

: Use with an enclosed system or a local exhaust ventilation. Appropriate engineering

controls

ACGIH TWA

Respiratory protection

Protective equipment

: If necessary, wear chemical cartridge respirator with an organic vapor cartage

Hand protection : Impervious protective gloves

Eye protection : Safety goggles

Skin and body protection : Protective clothing, protective boots

### 9. Physical and chemical properties

Physical state : Liquid

: Colorless - pale yellow Color

0dor : Lilac like odor рΗ : No data available

: 35 - 36  $^{\circ}$  C (As the product contains a small amount of  $\beta$  - and  $\gamma$  -Melting point

terpineol, it is liquid form.)

Freezing point : No data available

Boiling point : 219 ° C : 91 ° C (C.C.) Flash point

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: 278 ° C Auto-ignition temperature

Decomposition temperature : No data available

Flammability : Flammable : 6.48 Pa (23℃) Vapor pressure Relative density : No data available

Density :  $0.931 - 0.937 \text{ g/cm}^3 (20^{\circ}\text{C})$ 

Relative gas density : No data available Solubility Water: 2.87 g/L (23°C)

Organic solvent: Soluble in ethanol and diethyl phthalate.

Partition coefficient n-

octanol/water (log Pow)

Explosive limits (vol %) : No data available Viscosity, kinematic :  $40.6 \text{ mm}^2/\text{s} (20^{\circ}\text{C})$ Particle characteristics : No data available

## 10. Stability and reactivity

Reactivity : May react with oxidizing substances. : Stable under normal conditions. Chemical stability

: 2.6

Possibility of hazardous

Acute toxicity (dermal)

Conditions to avoid

reactions

: Light, heat.

: Oxidizing substances. Incompatible materials Hazardous decomposition : Carbon monoxide.

products

## 11. Toxicological information

Acute toxicity (oral) : No classification

rat LD50=4300 mg/kg No classification rabbit LD50>3000 mg/kg

Acute toxicity (inhalation) No classification (gas)

> Classification not possible (vapor) Classification not possible (dust, mist)

: Stable under normal conditions of use.

Skin corrosion/irritation : Causes skin irritation

: Causes serious eye irritation Serious eye damage/irritation

Respiratory sensitization : Classification not possible Skin sensitization Classification not possible Germ cell mutagenicity Classification not possible Carcinogenicity Classification not possible Reproductive toxicity Classification not possible STOT-single exposure Classification not possible STOT-repeated exposure Classification not possible Aspiration hazard Classification not possible

## 12. Ecological information

#### Ecotoxicity

: Harmful to aquatic life Aquatic acute

rainbow trout LC50=10-100 mg/L/96h

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Aquatic chronic : No classification

#### Persistence and degradability

Readily biodegradable

BOD: 84.6%

#### Bioaccumulative potential

Low bioconcentration

log Pow : 2.6

#### Mobility in soil

No additional information available

#### Hazardous to the ozone layer

0zone : Classification not possible

## 13. Disposal considerations

: Burn in a chemical incinerator equipped with an afterburner Ecological waste information

and a scrubber. Or entrust approved waste disposal companies

with the disposal.

Contaminated container and

packaging

: In case of disposal of empty bottles, dispose bottles after

removing the content thoroughly.

## 14. Transport information

# International Regulations

Transport by sea (IMDG)

UN-No. (IMDG) Not applicable Proper Shipping Name (IMDG) Not applicable Packing group (IMDG) Not applicable Transport hazard class(es) Not applicable

(TMDG)

Air transport(IATA)

UN-No. (IATA) Not applicable Proper Shipping Name (IATA) Not applicable Packing group (IATA) Not applicable Transport hazard class(es) Not applicable

(TATA)

Marine pollutant : Not applicable

#### 15. Regulatory information

Regulatory information with regard to this substance in your country or region should be examined by your own responsibility.

### 16. Other information

Data sources : NITE Chemical Risk Information Platform (NITE-CHRIP), National

Institute of Technology and Evaluation.

ECHA (European Chemicals Agency).

Handbook of 17524 Chemical Products, The Chemical Daily Co.

(2024) .

The information contained herein is based on several references and the present state of our knowledge. However the SDS does not always cover all information about the product, handle the



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product carefully. The information is intended to ordinary usage, in case of particular handlings, conduct appropriate safety measurements. The information herein is only provision of information, and it does not represent a guarantee the properties of the product. The Safety Data Sheet (SDS) is prepared based on JIS Z7253.