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MATERIAL SAFETY DATA SHEET

(±)-exo,exo-2,3-Camphanediol

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name : (±)-exo,exo-2,3-Camphanediol Date: 9th April 2015 Version: Discofinechem2

Company : Discovery Fine Chemicals Ltd
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2. HAZARDS IDENTIFICATION
2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]
Serious eye damage (Category 1)
Classification according to EU Directives 67/548/EEC or 1999/45/EC
Risk of serious damage to eyes.
2.2 Label elements
Labelling according Regulation (EC) No 1272/2008 [CLP]

Pictogram
Signal word Danger
Hazard statement(s)
H318 Causes serious eye damage.
Precautionary statement(s)
P280 Wear protective gloves/ eye protection/ face protection.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Hazard symbol(s)

Xi Irritant
R-phrase(s)
R41 Risk of serious damage to eyes.
S-phrase(s)
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S39 Wear eye/face protection.
2.3 Other hazards – none

3. COMPOSITION/INFORMATION ON INGREDIENTS
Formula : $C_{10}H_{18}O_2$ Molecular Weight : 170.25 g/mol
CAS-No. 56614-57-4 EC-No.- Index-No.- Classification - Xi, R41

4. FIRST AID MEASURES
4.1 Description of first aid measures
General advice - Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled - If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.
In case of skin contact - Wash off with soap and plenty of water. Consult a physician.

In case of eye contact - Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed - Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
4.2 Most important symptoms and effects, both acute and delayed - To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
4.3 Indication of any immediate medical attention and special treatment needed - no data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media - Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
5.2 Special hazards arising from the substance or mixture - Carbon oxides.
5.3 Advice for firefighters - Wear self contained breathing apparatus for fire fighting if necessary.
5.4 Further information - no data available

6. ACCIDENTAL RELEASE MEASURES

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
6.2 Environmental precautions - Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
6.4 Reference to other sections - For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
7.3 Specific end uses - no data available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters - Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls - Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection - Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin protection - Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
Body Protection - Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection - Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)..

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance Form: solid, Colour: white
b) Odour - no data available
c) Odour Threshold - no data available
d) pH - no data available
e) Melting point/freezing point - Melting point/range: 262 - 268 °C
f) Initial boiling point and boiling range - no data available
g) Flash point - no data available
h) Evaporation rate - no data available
i) Flammability (solid, gas) - no data available
j) Upper/lower flammability or explosive limits - no data available
k) Vapour pressure - no data available
l) Vapour density - no data available
m) Relative density - no data available
n) Water solubility - no data available

o) Partition coefficient: noctanol/water - log Pow: -0.028
p) Autoignition temperature - no data available
q) Decomposition temperature - no data available
r) Viscosity - no data available
s) Explosive properties - no data available
t) Oxidizing properties - no data available
9.2 Other safety information - no data available
10. STABILITY AND REACTIVITY
10.1 Reactivity - no data available
10.2 Chemical stability - no data available
10.3 Possibility of hazardous reactions - no data available
10.4 Conditions to avoid - no data available
10.5 Incompatible materials - Strong oxidizing agents
10.6 Hazardous decomposition products - Other decomposition products - no data available
11. TOXICOLOGICAL INFORMATION
11.1 Information on toxicological effects
Acute toxicity - no data available
Skin corrosion/irritation - no data available
Serious eye damage/eye irritation - no data available
Respiratory or skin sensitization - no data available
Germ cell mutagenicity - no data available
Carcinogenicity - IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity - no data available
Specific target organ toxicity - single exposure - no data available
Specific target organ toxicity - repeated exposure - no data available
Aspiration hazard - no data available
Potential health effects
Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion: May be harmful if swallowed.
Skin: May be harmful if absorbed through skin. May cause skin irritation.
Eyes: Causes eye burns.
Signs and Symptoms of Exposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Additional Information - RTECS: Not available
12. ECOLOGICAL INFORMATION
12.1 Toxicity - no data available
12.2 Persistence and degradability - no data available
12.3 Bioaccumulative potential - no data available
12.4 Mobility in soil - no data available
12.5 Results of PBT and vPvB assessment - no data available
12.6 Other adverse effects - no data available
13. DISPOSAL CONSIDERATIONS
13.1 Waste treatment methods
Product - Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
Contaminated packaging - Dispose of as unused product.
14. TRANSPORT INFORMATION
14.1 UN number
ADR/RID: - IMDG: - IATA: -
14.2 UN proper shipping name
ADR/RID: Not dangerous goods
IMDG: Not dangerous goods
IATA: Not dangerous goods
14.3 Transport hazard class(es)
ADR/RID: - IMDG: - IATA: -
14.4 Packaging group
ADR/RID: - IMDG: - IATA: -
14.5 Environmental hazards
ADR/RID: no IMDG Marine pollutant: no IATA: no
14.6 Special precautions for user
no data available

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

no data available

15.2 Chemical Safety Assessment

no data available

16. OTHER INFORMATION

Further information

Text of H-code(s) and R-phrase(s) mentioned in Section 3
Hazard symbols
Xi Irritant
Eye Dam. Serious eye damage
H318 Causes serious eye damage.
Xi Irritant
R41 Risk of serious damage to eyes.

WARRANTY

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product.

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