## Material Safety Data Sheet

Date Printed: 16/JUN/2005
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Version 1.1
According to 91/155/EEC

Classified as Hazardous according to the criteria of EU Annex 1 and NOHSC.

# 1 - Product and Company Information

Product Name 2-METHYLCYCLOHEXANOL (CIS+TRANS)
66320

Company Sigma-Aldrich Pty. Ltd.
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# 2 - Composition/Information on Ingredients

Product Name CAS # EC no Annex I Index Number (-)-0,0'-DIBENZOYL-L-TARTARIC ACID 583-59-5 209-512-0 603-010-00-9

Formula C7H140 Molecular Weight 114.19 AMU

Synonyms Cyclohexanol, 2-methyl- (8CI,9CI) \*

o-Methylcyclohexanone \* o-Methylcyclohexanone

(ACGIH:OSHA) \* 2-Methylcyclohexanone \*

2-Metilcicloesanone (Italian) \*

o-Methylcyclohexanol \* 2-Methylcyclohexyl alcohol

# 3 - Hazards Identification

SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT Harmful by inhalation.

### 4 - First Aid Measures

### AFTER INHALATION

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

#### AFTER SKIN CONTACT

In case of contact, immediately wash skin with soap and copious amounts of water.

## AFTER EYE CONTACT

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

# 5 - Fire Fighting Measures

Suitable: Carbon dioxide, dry chemical powder, or appropriate foam.

#### SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

# 6 - Accidental Release Measures

PERSONAL PRECAUTION PROCEDURES TO BE FOLLOWED IN CASE OF LEAK OR SPILL Evacuate area.

#### PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

#### METHODS FOR CLEANING UP

Absorb on sand or vermiculite and place in closed containers for disposal.

## 7 - Handling and Storage

### HANDLING

Directions for Safe Handling: Do not breathe vapor. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

#### **STORAGE**

Conditions of Storage: Keep tightly closed. Keep away from heat and open flame. Store in a cool dry place.

## 8 - Exposure Controls / Personal Protection

#### ENGINEERING CONTROLS

Safety shower and eye bath.

# GENERAL HYGIENE MEASURES

Wash thoroughly after handling. Wash contaminated clothing before reuse.

#### EXPOSURE LIMITS - DENMARK

Source Type Value
OEL TWA 235 mg/m3
50 ppm

# EXPOSURE LIMITS - NORWAY

Source Type Value
OEL 120 mg/m3
25 ppm

# PERSONAL PROTECTIVE EQUIPMENT

Hand Protection: Rubber gloves.

Eye Protection: Chemical safety goggles.

## 9 - Physical and Chemical Properties

Appearance Color: Very faintly yellow-green

Form: Clear viscous liquid

Property Value At Temperature or Pressure

pH N/A

BP/BP Range MP/MP Range 163 - 167 °C N/A58 °C Flash Point Method: closed cup Flammability N/AAutoignition Temp N/A Oxidizing Properties N/A Explosive Properties N/AExplosion Limits N/AVapor Pressure N/A $0.929 \, \text{g/cm}3$ SG/Density Partition Coefficient N/A Viscosity N/A Vapor Density N/ASaturated Vapor Conc. N/A Evaporation Rate N/A Bulk Density N/ADecomposition Temp. N/A Solvent Content N/AWater Content N/ASurface Tension N/AConductivity N/A Miscellaneous Data N/A Solubility N/A

## 10 - Stability and Reactivity

#### STABILITY

Materials to Avoid: Strong oxidizing agents.

### HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide.

## 11 - Toxicological Information

RTECS NUMBER: GW0220000

# ACUTE TOXICITY

LD50

Intramuscular

Mouse

1 GM/KG

#### SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### ROUTE OF EXPOSURE

Skin Contact: May cause skin irritation.

Eye Contact: May cause eye irritation.

Multiple Routes: Harmful if inhaled or swallowed.

## TARGET ORGAN INFORMATION

Liver. Kidneys.

#### 12 - Ecological Information

No data available.

### 13 - Disposal Considerations

SUBSTANCE DISPOSAL

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

# 14 - Transport Information

```
RID/ADR
   UN#: 2617
   Class: 3
   PG: III
   Proper Shipping Name: Methylcyclohexanols
IMDG
   UN#: 2617
   Class: 3
   PG: III
   Proper Shipping Name: Methylcyclohexanols
   Marine Pollutant: No
   Severe Marine Pollutant: No
IATA
   UN#: 2617
   Class: 3
   PG: III
   Proper Shipping Name: Methylcyclohexanols
   Inhalation Packing Group I: No
```

# 15 - Regulatory Information

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CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES
ANNEX I INDEX NUMBER: 603-010-00-9
NOTA: C
INDICATION OF DANGER: Xn
Harmful.
R-PHRASES: 20
Harmful by inhalation.
S-PHRASES: 24/25
Avoid contact with skin and eyes.

COUNTRY SPECIFIC INFORMATION

Germany
WGK: 1

SWITZERLAND
SWISS POISON CLASS: 4
```

# 16 - Other Information

#### 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 with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2005 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

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