# Material Safety Data Sheet acc. to OSHA and ANSI

Printing date 06/16/2009

Reviewed on 06/16/2009

#### 1 Identification of substance:

Product details:

Product name: 3-(4-Methylbenzylidene)camphor

Stock number: A16566
Manufacturer/Supplier:

Alfa Aesar, A Johnson Matthey Company Johnson Matthey Catalog Company, Inc.

30 Bond Street

Ward Hill, MA 01835-8099 Emergency Phone: (978) 521-6300 CHEMTREC: (800) 424-9300

Web Site: www.alfa.com

Information Department: Health, Safety and Environmental Department

Emergency information:

During normal hours the Health, Safety and Environmental Department. After normal hours call Chemtrec at (800) 424-9300.

### 2 Composition/Data on components:

Chemical characterization:

Description: (CAS#)

 $(\pm)$  -1, 7, 7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.

2.1]heptan-2-one (CAS# 36861-47-9): 100%

Identification number(s):
EINECS Number: 253-242-6

#### 3 Hazards identification

#### Hazard description:



Xn Harmful

Information pertaining to particular dangers for man and environment

R 63 Possible risk of harm to the unborn child

Classification system

HMIS ratings (scale 0-4)

(Hazardous Materials Identification System)



Health (acute effects) = 1
Flammability = 1
Reactivity = 1

#### GHS label elements



# Warning

3.7/2 - Suspected of damaging fertility or the unborn child.

#### Prevention:

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Use personal protective equipment as required.

#### Response:

IF exposed or concerned: Get medical advice/attention.

# Storage:

Store locked up.

#### Disposal:

Dispose of contents/container in accordance with local/regional/national/international regulations.

# 4 First aid measures

#### After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice.

#### After skin contact

Immediately wash with water and soap and rinse thoroughly.

Seek immediate medical advice.

(Contd. on page 2)

# Material Safety Data Sheet acc. to OSHA and ANSI

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Product name: 3-(4-Methylbenzylidene)camphor

(Contd. of page 1)

#### After eye contact

Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing Seek immediate medical advice.

#### 5 Fire fighting measures

### Suitable extinguishing agents

Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards caused by the material, its products of combustion or resulting gases:

In case of fire, the following can be released:

Carbon monoxide and carbon dioxide

#### Protective equipment:

Wear self-contained respirator.

Wear fully protective impervious suit.

#### 6 Accidental release measures

#### Person-related safety precautions:

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

#### Measures for environmental protection:

Do not allow material to be released to the environment without proper governmental permits.

#### Measures for cleaning/collecting:

Dispose contaminated material as waste according to item 13.

#### Additional information:

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### 7 Handling and storage

#### Handling

### Information for safe handling:

Keep container tightly sealed.

Store in cool, dry place in tightly closed containers.

Ensure good ventilation at the workplace.

Information about protection against explosions and fires: Keep ignition sources away.

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Store away from oxidizing agents.

#### Further information about storage conditions:

Keep container tightly sealed.

Store in cool, dry conditions in well sealed containers.

### 8 Exposure controls and personal protection

#### Additional information about design of technical systems:

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

Components with limit values that require monitoring at the workplace: Not required.

Additional information: No data

### Personal protective equipment

#### General protective and hygienic measures

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Remove all soiled and contaminated clothing immediately.

Wash hands before breaks and at the end of work.

Breathing equipment: Use suitable respirator when high concentrations are present.

#### Protection of hands:

Impervious gloves

Check protective gloves prior to each use for their proper condition.

#### Material of gloves

The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.

Eye protection: Safety glasses

Body protection: Protective work clothing.

USA

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Printing date 06/16/2009 Reviewed on 06/16/2009

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(Contd. of page 2)

## 9 Physical and chemical properties:

Form:	Lump
	Powder
Odor:	Not determined
Change in condition	
Melting point/Melting range:	66-68°C (151-154°F)
Boiling point/Boiling range:	Not determined
Sublimation temperature / start:	Not determined
Flash point:	Not applicable
Ignition temperature:	Not determined
Decomposition temperature:	Not determined
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined
Upper:	Not determined
Vapor pressure:	Not determined
Density:	Not determined

#### 10 Stability and reactivity

Thermal decomposition / conditions to be avoided:

Decomposition will not occur if used and stored according to specifications.

Materials to be avoided: Oxidizing agents

Dangerous reactions No dangerous reactions known

Dangerous products of decomposition: Carbon monoxide and carbon dioxide

#### 11 Toxicological information

Acute toxicity:

Primary irritant effect:

on the skin: Irritant to skin and mucous membranes.

on the eye: Irritating effect.

Sensitization: No sensitizing effects known.

Other information (about experimental toxicology):

Reproductive effects have been observed on tests with laboratory animals.

Subacute to chronic toxicity:

Subacute to chronic toxicity:

The Registry of Toxic Effects of Chemical Substances (RTECS) reports the following effects in laboratory animals:

Endocrine - estrogenic.

Related to Chronic Data - changes in uterine weight.

Reproductive - Specific Developmental Abnormalities - endocrine system.

Reproductive - Specific Developmental Abnormalities - immune and reticuloendothelial system
Reproductive - Specific Developmental Abnormalities - Central Nervous System.
Reproductive - Specific Developmental Abnormalities - urogenital system.

Reproductive - Effects on Newborn - viability index (e.g., # alive at day 4 per # born live).

Additional toxicological information:

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

Possible risk of harm to the unborn child.

No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

### 12 Ecological information:

#### General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Do not allow material to be released to the environment without proper governmental permits.

#### 13 Disposal considerations

Recommendation Consult state, local or national regulations to ensure proper disposal.

(Contd. on page 4)

# Material Safety Data Sheet acc. to OSHA and ANSI

Reviewed on 06/16/2009 Printing date 06/16/2009

Product name: 3-(4-Methylbenzylidene)camphor

(Contd. of page 3)

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

#### 14 Transport information

Not a hazardous material for transportation.

DOT regulations: Hazard class: None

Land transport ADR/RID (cross-border)

ADR/RID class: None Maritime transport IMDG: IMDG Class:

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: None

Transport/Additional information: Not dangerous according to the above specifications.

#### 15 Regulations

Product related hazard informations:

Hazard symbols:

Xn Harmful

Risk phrases:

63 Possible risk of harm to the unborn child

Safety phrases:

36/37 Wear suitable protective clothing and gloves.

#### National regulations

All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory.

All components of this product are listed on the Canadian Domestic Substances List (DSL).

Information about limitation of use: For use only by technically qualified individuals.

#### 16 Other information:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the

Department issuing MSDS: Health, Safety and Environmental Department.

Contact: Zachariah Holt

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International

Carriage of Dangerous Goods by Road)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
HMIS: Hazardous Materials Identification System (USA)