

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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#### **SECTION 1: Identification**

#### 1.1. Identification

Product form : Substance

Substance name : CAMPHENE NATURAL

 CAS-No.
 : 79-92-5

 Product code
 : TP1154

 Formula
 : C10H16

Synonyms : 2,2-dimethyl-3-methylenebicyclo(2.2.1)heptane / 2,2-dimethyl-3-methylenenorborane / 2,2-

dimethyl-3-methylenenorbornane / 3,3-dimethyl-2-methylenenorbornane / 3,3-dimethyl-2-methylenenorcamphane / 3,3-dimethyl-2-methylenenorcamphane / 3,3-dimethyl-2-methylenenorcamphone / bicyclo(2.2.1)heptane, 2,2-dimethyl-3-methylene- / camphene /

camphene, dl-form / FEMA No 2229

BIG no : 14854

#### 1.2. Recommended use and restrictions on use

No additional information available

#### 1.3. Supplier

EXTRACT CONSULTANTS, LLC. TERPENES - FLAVORS - BASES PO BOX 11433, DENVER, CO 80211 www.extractconsultants.com INFORMATION: 1-888-541-9089

#### 1.4. Emergency telephone number

Emergency number : CHEMTREC - USA: 800-424-9300 International: +1 703-527-3887 / 1-800-424-9300

CCN 13010

# **SECTION 2: Hazard(s) identification**

#### 2.1. Classification of the substance or mixture

#### **GHS-US** classification

Flammable solids Category 2 Flammable solid

Serious eye damage/eye irritation Category 2 Causes serious eye irritation

### 2.2. GHS Label elements, including precautionary statements

# **GHS-US** labeling

Hazard pictograms (GHS-US)





GHS02

02 GHS07

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : Flammable solid

Causes serious eye irritation

Precautionary statements (GHS-US) : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

Ground/Bond container and receiving equipment

Use explosion-proof electrical/ventilating/lighting equipment Wash hands, forearms and face thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention. In case of fire: Use media other than water to extinguish.

### 2.3. Other hazards which do not result in classification

No additional information available

06/17/2019 EN (English US) Page 1

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

### **SECTION 3: Composition/Information on ingredients**

### 3.1. Substances

Name	Product identifier	%	GHS-US classification
CAMPHENE (Main constituent)	(CAS-No.) 79-92-5	100	Flam. Sol. 2, H228 Eye Irrit. 2, H319

Full text of hazard classes and H-statements : see section 16

#### 3.2. Mixtures

Not applicable

### **SECTION 4: First-aid measures**

# 4.1. Description of first aid measures

First-aid measures general

: Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

First-aid measures after inhalation

First-aid measures after skin contact

Remove the victim into fresh air.

: Wash immediately with lots of water (15 minutes)/shower. Soap may be used. Do not apply

(chemical) neutralizing agents.

First-aid measures after eye contact

Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Take victim to an ophthalmologist. Do not apply neutralizing agents.

First-aid measures after ingestion

: Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Ingestion of large quantities: immediately to hospital. Call Poison Information Centre

(www.big.be/antigif.htm).

# 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after eye contact : Irritation of the eye tissue.

# 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

### **SECTION 5: Fire-fighting measures**

# 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media

: Quick-acting ABC powder extinguisher. Class A foam extinguisher. Water (quick-acting

extinguisher, reel). Water. Class A foam.

Unsuitable extinguishing media : Quick-acting BC powder extinguisher. Quick-acting CO2 extinguisher.

#### 5.2. Specific hazards arising from the chemical

Fire hazard

Explosion hazard

: DIRECT FIRE HAZARD: Flammable solid. In finely divided state: increased fire hazard. INDIRECT FIRE HAZARD: Temperature above flashpoint: higher fire/explosion hazard. May be

ignited by sparks. Reactions involving a fire hazard: see "Reactivity Hazard".

DIRECT EXPLOSION HAZARD: Fine dust is explosive with air. INDIRECT EXPLOSION HAZARD: Dust cloud can be ignited by a spark.

Reactivity : Reacts with (strong) oxidizers. On heating: release of combustible gases/vapours.

#### 5.3. Special protective equipment and precautions for fire-fighters

Precautionary measures fire

Protection during firefighting

: Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: have neighbourhood close doors and windows.

Firefighting instructions

: Cool tanks/drums with water spray/remove them into safety. Do not move the load if exposed to

: Heat/fire exposure: compressed air/oxygen apparatus.

# SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

### 6.1.1. For non-emergency personnel

Protective equipment

: Gloves. Safety glasses. Protective clothing. Dust cloud production: compressed air/oxygen apparatus.

06/17/2019 EN (English US) 2/7

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

**Emergency procedures** 

: Mark the danger area. Prevent dust cloud formation, e.g. by wetting. Stop engines and no smoking. No naked flames or sparks. Spark- and explosion proof appliances and lighting equipment. Keep containers closed. Wash contaminated clothes.

Measures in case of dust release

In case of dust production: keep upwind. Dust production: have neighbourhood close doors and windows

### 6.1.2. For emergency responders

Protective equipment

: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Prevent spreading in sewers.

#### 6.3. Methods and material for containment and cleaning up

For containment

Methods for cleaning up

: Contain released product, pump into suitable containers. Plug the leak, cut off the supply. Dam up the solid spill. Knock down/dilute dust cloud with water spray. Provide equipment/receptacles with earthing. Do not use compressed air for pumping over spills.

Heating: dilute combustible gas/vapour with water curtain.

: Stop dust cloud by covering with sand/earth. Scoop solid spill into closing containers. Do not use compressed air for pumping over spills. Carefully collect the spill/leftovers. Take collected spill to manufacturer/competent authority. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling

: Avoid raising dust. Use spark-/explosionproof appliances and lighting system. Take precautions against electrostatic charges. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Comply with the legal requirements. Clean contaminated clothing. Handle uncleaned empty containers as full ones. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Do not use compressed air for pumping over. Keep container tightly closed.

Hygiene measures : Observe normal hygiene standards.

# 7.2. Conditions for safe storage, including any incompatibilities

Technical measures

: Ground/bond container and receiving equipment.

Storage conditions

: Keep cool. Protect from sunlight. Keep away from ignition sources. Store in a well-ventilated place.

Heat-ignition : KEEP SUBSTANCE AWAY FROM: heat sources. ignition sources.

Information on mixed storage

KEEP SUBSTANCE AWAY FROM: oxidizing agents.

Storage area

: Store in a cool area. Provide the tank with earthing. Meet the legal requirements.

Special rules on packaging

: SPECIAL REQUIREMENTS: hermetical. clean. correctly labelled. meet the legal requirements.

Secure fragile packagings in solid containers.

Packaging materials : SUITABLE MATERIAL: iron. glass.

# SECTION 8: Exposure controls/personal protection

# 8.1. Control parameters

No additional information available

## 8.2. Appropriate engineering controls

Appropriate engineering controls

: Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

# 8.3. Individual protection measures/Personal protective equipment

#### Hand protection:

Gloves

06/17/2019 EN (English US) 3/7

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### Eye protection:

Safety glasses. In case of dust production: protective goggles

### Skin and body protection:

Protective clothing

### Respiratory protection:

Dust formation: dust mask

# SECTION 9: Physical and chemical properties

# 9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Crystalline solid.

Color : WHITE TO PALE YELLOW SOLID

Odor : CAMPHOR
Odor threshold : No data available

pH : 5.5 Melting point :  $42 \,^{\circ}\text{C}$ 

Freezing point : No data available

Boiling point :  $156 \, ^{\circ}\text{C}$  Flash point :  $26 \, ^{\circ}\text{C}$ 

Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) : Flammable solid. Vapor pressure : 2.4 hPa (20 °C) Vapor pressure at 50 °C : 12.5 hPa

Relative vapor density at 20 °C : 4.7

Relative density : Not applicable
Specific gravity / density : 845 kg/m³
Molecular mass : 136.24 g/mol
Solubility : Insoluble.

Water: < 0.01 g/100ml

Log Pow : 4.02Auto-ignition temperature :  $265 \, ^{\circ}\mathrm{C}$ 

Decomposition temperature : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : 0.0016 Pa.s (50 °C)
Explosion limits : No data available
Explosive properties : No data available
Oxidizing properties : No data available

# 9.2. Other information

VOC content : 100 %

Refractive index : Not applicable

Other properties : Acid reaction.

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Reacts with (strong) oxidizers. On heating: release of combust ble gases/vapours.

### 10.2. Chemical stability

Unstable on exposure to air.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

06/17/2019 EN (English US) 4/7

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

CAMPHENE (79-92-5)	
LD50 oral rat	> 5000 mg/kg (Rat, Oral)
LD50 dermal rabbit	> 2500 mg/kg (Rabbit, Dermal)
Skin corrosion/irritation	: Not classified
	pH: 5.5
Serious eye damage/irritation	: Causes serious eye irritation.
	pH: 5.5
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity – single exposure	: Not classified

Specific target organ toxicity – repeated

exposure

: Not classified: Not classified

Potential Adverse human health effects and

symptoms

: Non-toxic if swallowed (LD50 oral, rat > 5000 mg/kg). Practically non-toxic through skin (LD50 oral, rat > 5000 mg/kg).

skin 2000/5000 mg/kg). Slightly irritant to skin. Causes serious eye irritation.

Symptoms/effects after eye contact : Irritation of the eye tissue.

### **SECTION 12: Ecological information**

#### 12.1. Toxicity

Aspiration hazard

Ecology - general : Dangerous for the environment.

Ecology - water : Harmful to aquatic organisms. Very toxic to fishes. Water pollutant (surface water). Inhibition of activated sludge. Not harmful to algae.

CAMPHENE (79-92-5)		
LC50 fish 1	0.72 mg/l (96 h, Brachydanio rerio, Technical product)	
EC50 Daphnia 1	22 mg/l (48 h, Daphnia magna, Technical product)	

# 12.2. Persistence and degradability

CAMPHENE (79-92-5)	
Persistence and degradability	Not readily biodegradable in water.

#### 12.3. Bioaccumulative potential

CAMPHENE (79-92-5)		
BCF fish 1	432 - 1290 (Cyprinus carpio, Test duration: 8 weeks)	
Log Pow	4.02	
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).	

#### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

No additional information available

06/17/2019 EN (English US) 5/7

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

# **SECTION 13: Disposal considerations**

#### **Disposal methods**

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

Product/Packaging disposal recommendations

Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Incinerate under surveillance with energy recovery.

Additional information Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No

1357/2014 and Regulation (EU) No 2017/997.

### **SECTION 14: Transport information**

### **Department of Transportation (DOT)**

In accordance with DOT

Transport document description : UN1266 Perfumery products, 3, III

UN-No.(DOT) : UN1266

Proper Shipping Name (DOT) : Perfumery products

Class (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Packing group (DOT) : III - Minor Danger Hazard labels (DOT) 3 - Flammable liquid



DOT Packaging Non Bulk (49 CFR 173.xxx) : 203 DOT Packaging Bulk (49 CFR 173.xxx)

DOT Special Provisions (49 CFR 172.102) : B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the

bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this

subchapter are applicable.

IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table

2 for UN2672).

T2 - 1.5 178.274(d)(2) Normal..... 178.275(d)(3)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.

DOT Packaging Exceptions (49 CFR 173.xxx)

DOT Quantity Limitations Passenger aircraft/rail : 60 L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 220 L

CFR 175.75)

**DOT Vessel Stowage Location** 

: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel.

Emergency Response Guide (ERG) Number : 127

Other information : No supplementary information available.

# **Transportation of Dangerous Goods**

Not applicable

#### Transport by sea

Transport document description (IMDG) : UN 1266 PERFUMERY PRODUCTS, 3, III

UN-No. (IMDG)

PERFUMERY PRODUCTS Proper Shipping Name (IMDG) Class (IMDG) : 3 - Flammable liquids

06/17/2019 EN (English US) 6/7

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Packing group (IMDG) : III - substances presenting low danger

Limited quantities (IMDG) : 5 L

### Air transport

Transport document description (IATA) : UN 1266 Perfumery products, 3, III

UN-No. (IATA) : 1266

Proper Shipping Name (IATA) : Perfumery products
Class (IATA) : 3 - Flammable Liquids
Packing group (IATA) : III - Minor Danger

# **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

### **CAMPHENE (79-92-5)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory

# 15.2. International regulations

#### **CANADA**

### **CAMPHENE (79-92-5)**

Listed on the Canadian DSL (Domestic Substances List)

#### **EU-Regulations**

No additional information available

### **National regulations**

No additional information available

### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

# **SECTION 16: Other information**

Revision date : 06/17/2019

SDS US (GHS HazCom 2012) - Extract Consultants

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

06/17/2019 EN (English US) 7/7