

Safety Data Sheet 2217139 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 05/24/2019 Version: 1.0

1 Identification	
I.1. Identification	
Product form	: Substance
Substance name	: Norcamphor
CAS No	: 497-38-1
Product code	: 2217-1-39
Formula	: C7H10O
Synonyms	: 2-Norbornanone
Other means of identification	: MFCD00074823
1.2. Relevant identified uses of the second	ubstance or mixture and uses advised against
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and development
1.3. Details of the supplier of the safe	ety data sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Americ T (386) 462-0788 - F (386) 462-7097 nfo@synquestlabs.com - www.synquestlabs	
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identification	on
2.1. Classification of the substance of	
Classification (GHS-US)	
Skin Irrit. 2H315 - Causes skin irritationEye Irrit. 2AH319 - Causes serious eye ir	rritation
Eye Irrit. 2A H319 - Causes serious eye ir	rritation
Skin Irrit. 2H315 - Causes skin irritationEye Irrit. 2AH319 - Causes serious eye irSTOT SE 3H335 - May cause respiratoryFull text of H-phrases: see section 16	rritation
Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye ir STOT SE 3 H335 - May cause respiratory Full text of H-phrases: see section 16 2.2. Label elements	rritation y irritation
Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye in STOT SE 3 H335 - May cause respiratory Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)	rritation y irritation
Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye ir STOT SE 3 H335 - May cause respiratory Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling	rritation y irritation

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P337+P313 - If eye irritation persists: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse P370+P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish P403+P233 - Store in a well-ventilated place. Keep container tightly closed P405 - Store locked up

P501 - Dispose of contents/container to an approved waste disposal plant

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

J.I.	Substance	
Substand	ce type	: Mono-constituent

Name	Product identifier	%	Classification (GHS-US)
Norcamphor (Main constituent)	(CAS No) 497-38-1	<= 100	Flam. Sol. 1, H228 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335

Full text of H-phrases: see section 16

3.2. Mixture

Not applicable	
SECTION 4: First aid measures	
4.1. Description of first aid measures	ŝ
First-aid measures general	: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Move the affected personnel away from the contaminated area.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get medical advice/attention.
First-aid measures after skin contact	: Wash with plenty of soap and water. Get medical advice/attention.
First-aid measures after eye contact	: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
First-aid measures after ingestion	: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention.
4.2. Most important symptoms and e	ffects, both acute and delayed
Symptoms/injuries	: The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.
4.3. Indication of any immediate med	lical attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measure	S
5.1. Extinguishing media	
Suitable extinguishing media	: Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.
5.2. Special hazards arising from the	substance or mixture
Fire hazard	: Thermal decomposition generates: Carbon oxides.
Explosion hazard	: When mixed with air and exposed to an ignition source, dust may burn in the open air or explode if confined.
5.3. Advice for firefighters	
Firefighting instructions	: In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.
Protection during firefighting	: Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".
SECTION 6: Accidental release m	easures
6.1. Personal precautions. protective	e equipment and emergency procedures

General measures	: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe dust.
6.1.1. For non-emergency personnel	
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.

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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".
Emergency procedures	: Avoid raising dust. When mixed with air and exposed to an ignition source, dust may burn in the open air or explode if confined. Eliminate every possible source of ignition.
6.2. Environmental precautions	
Avoid release to the environment. Notify autho	rities if product enters sewers or public waters.
6.3. Methods and material for contain	nent and cleaning up
For containment	: Stop leak if safe to do so.
Methods for cleaning up	: Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.
Other information	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	: When mixed with air and exposed to an ignition source, dust may burn in the open air or explode if confined.
Precautions for safe handling	: Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe dust, mist, spray. Wear personal protective equipment. Avoid contact with skin and eyes. Keep away from ignition sources (including static discharges). Proper grounding procedures to avoid static electricity should be followed. Use only non-sparking tools.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, inclue	ding any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use. Keep away from ignition sources.
Incompatible materials	: Refer to Section 10 on Incompatible Materials.
Storage area	: Store in dry, cool, well-ventilated area.

SECTION 8: Exposure controls/personal protection

8.1. **Control parameters**

No additional information available

8.2. Exposure controls	
Appropriate engineering controls	: Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Hand protection	: Protective gloves. 29 CFR 1910.138: Hand Protection.
Eye protection	: Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.
Other information	: Safety shoes. 29 CFR 1910.136: Foot Protection.

SEC	TION 9: Phy	ysical and	d chemica	l properties	
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9.1. Information on basic physical	and chemical properties		
Physical state	: Solid		
Color	: No data available		
Odor	: No data available		
Odor threshold	: No data available		
рН	: No data available		
Melting point	: 93 - 95 °C		
Freezing point	: No data available		
Boiling point	: 55 (@ 2 mm Hg)		
Flash point	: 33 °C		
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Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Molecular mass	: 110.1537 g/mol
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

9.2. Other information

No additional information available
SECTION 10: Stability and reactivity
10.1. Reactivity
No additional information available
10.2. Chemical stability
The product is stable at normal handling and storage conditions.
10.3. Possibility of hazardous reactions
No additional information available
10.4. Conditions to avoid
Keep away from heat, sparks and flame.
10.5. Incompatible materials
Strong oxidizing agents.
10.6. Hazardous decomposition products
Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of fire, see Section 5.

SECTI	SECTION 11: Toxicological information		
11.1.	Information on toxicological effects		

Acute toxicity	: Not classified
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information				
12.1. Toxicity				
No additional information available				
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12.2.	Persistence and degradability		
No additional information available			
12.3.	Bioaccumulative potential		
No additional information available			
12.4.	Mobility in soil		
No additional information available			
12.5.	Other adverse effects		
No additional information available			

SECTION 13: Disposal considerations			
13.1. Waste treatment methods			
Waste treatment methods	: Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.		
Waste disposal recommendations	: Dispose of contents/container in accordance with licensed collector's sorting instructions.		
Additional information	: Recycle the material as far as possible.		
SECTION 14: Transport informa	tion		
Department of Transportation (DOT)			

In accordance with DOT Transport document description

UN-No.(DOT) Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT)

Packing group (DOT)

DOT Packaging Non Bulk (49 CFR 173.xxx)

DOT Packaging Bulk (49 CFR 173.xxx)

DOT Symbols

DOT Special Provisions (49 CFR 172.102)

- : UN1325 Flammable solids, organic, n.o.s., 4.1, II
- UN1325
- : Flammable solids, organic, n.o.s.
- : 4.1 Class 4.1 Flammable Solid 49 CFR 173.124
 - 4.1 Flammable solid



- : II Medium Danger
- : 212

: 240

: G - Identifies PSN requiring a technical name

: A1 - Single packaging are not permitted on passenger aircraft. IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2). IP2 - When IBCs other than metal or rigid plastics IBCs are used, they must be offered for transportation in a closed freight container or a closed transport vehicle. IP4 - Flexible, fiberboard or wooden IBCs must be sift-proof and water-resistant or be fitted with a sift-proof and water-resistant liner. T3 - 2.65 178.274(d)(2) Normal..... 178.275(d)(2) TP33 - The portable tank instruction assigned for this substance applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable tanks conforming to the provisions of portable tank instruction T4 for solid substances of packing group III or T7 for solid substances of packing group II, unless a tank with more stringent requirements for minimum shell thickness, maximum allowable working pressure, pressure-relief devices or bottom outlets are assigned in which case the more stringent tank instruction and special provisions shall apply. Filling limits must be in accordance with portable tank special provision TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter.

DOT Packaging Exceptions (49 CFR 173.xxx) : 151 DOT Quantity Limitations Passenger aircraft/rail : 15 kg (49 CFR 173.27)

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according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations DOT Quantity Limitations Cargo aircraft only (49 : 50 kg CFR 175.75)

CFR 175.75)	
DOT Vessel Stowage Location	: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
Other information	: No supplementary information available.
TDG	
No additional information available	
Transport by sea	
UN-No. (IMDG)	: 1325
Proper Shipping Name (IMDG)	: FLAMMABLE SOLID, ORGANIC, N.O.S.
Class (IMDG)	: 4.1 - Flammable solids, self-reactive substance and solid desensitized explosives
Packing group (IMDG)	: II - substances presenting medium danger
Air transport	
UN-No. (IATA)	: 1325
Proper Shipping Name (IATA)	: Flammable solid, organic, n.o.s.
Class (IATA)	: 4.1 - Flammable solids
Packing group (IATA)	: II - Medium Danger
	-

SECTION 15: Regulatory information

15.1. US Federal regulations

Norcamphor (497-38-1)

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

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

CANADA

Norcamphor (497-38-1)

Listed on the Canadian NDSL (Non-Domestic Substances List)

EU-Regulations

No additional information available

National regulations

Listed on the AICS (Australian Inventory of Chemical Substances) Listed on the TCSI (Taiwan Chemical Substance Inventory)	

15.3. US State regulations

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

SECTION 16: Other information

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Full tex	t of H-phrases:	
	Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
	Flam. Sol. 1	Flammable solids Category 1
	Skin Irrit. 2	Skin corrosion/irritation Category 2
	STOT SE 3	Specific target organ toxicity (single exposure) Category 3
	H228	Flammable solid
	H315	Causes skin irritation
	H319	Causes serious eye irritation
	H335	May cause respiratory irritation
	nealth hazard	 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given. 2 - Live id and each deal is the treatment is first and and and and and and and and and and
NFPA t	ire hazard	: 3 - Liquids and solids that can be ignited under almost all ambient conditions.
NFPA r	reactivity	: 3 - Capable of detonation or explosive reaction, but requires a strong initiating source or must be heated under confinement before initiation, or reacts explosively with water.
HMIS I	II Rating	
Health		: 1 Slight Hazard - Irritation or minor reversible injury possible
Flamma	ability	: 0 Minimal Hazard - Materials that will not burn
Physica	al	: 3 Serious Hazard - Materials that may form explosive mixtures with water and are capable of detonation or explosive reaction in the presence of a strong initiating source. Materials may polymerize, decompose, self-react, or undergo other chemical change at normal temperature and pressure with moderate risk of explosion

SDS US (GHS HazCom 2012)

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