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L-(-)Camphor Sulphonic Acid CAS No 35963-20-3

MATERIAL SAFETY DATA SHEET SDS/MSDS

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1	Product identifiers Product name	:	L-(-)Camphor Sulphonic Acid	
	CAS-No.	:	35963-20-3	
1.2	Relevant identified uses o	f th	e substance or mixture and uses advised against	
	Identified uses	:	Laboratory chemicals, Industrial & for professional use only.	
1.3	Details of the supplier of t Company	he s :	afety data sheet Central Drug House (P) Ltd 7/28 Vardaan House Ansari Road Daryaganj New Delhi-110002 INDIA	
	Telephone	:	+91 11 49404040	
	Email	:	care@cdhfinechemical.com	
1.4	Emergency telephone nu	mbe	er	
	Emergency Phone #	:	+91 11 49404040 (9:00am - 6:00 pm) [Office hours]	
SECT	ION 2: Hazards identificatio	n		
2.1	Classification of the subst	anc	e or mixture	
	Classification according to Regulation (EC) No 1272/2008 Skin corrosion (Category 1B), H314			
For the full text of the H-Statements mentioned in this Section, see Section 16.				
2.2	Label elements			
	Labelling according Regulation (EC) No 1272/2008 Pictogram			
	0		Corrostive ito inetale	

Signal wordDangerHazard statement(s)Causes severe skin burns and eye damage.Precautionary statement(s)Vear protective gloves/ protective clothing/ eye protection/ face
protection.P305 + P351 + P338IF IN EYES: Rinse cautiously with water for several minutes. Remove
contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER/doctor.

Supplemental Hazard none Statements

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1	Substances Synonyms	:	(–)-Camphor-10-s (1R)-Camphor-10 (1R)-(–)-Camphor	-sulfonic acid	
	Formula Molecular weight CAS-No. EC-No.	::	C10H16O4S 232.30 g/mol 35963-20-3 252-817-9		
	Hazardous ingredients according to Regulation (EC) No 1272/2008ComponentClassificationConcentration				
	(1R)-[7,7-Dimethyl-2-o CAS-No.	•	o[2.2.1]hept-1-yl]r 963-20-3	nethanesulphonic acid Skin Corr. 1B; H314	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

252-817-9

SECTION 4: First aid measures

EC-No.

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

lf inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Take off contaminated clothing and shoes immediately. 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

Do NOT induce vomiting. 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

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 medical attention and special treatment needed No data available

SECTION 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, Sulphur oxides
- 5.3 Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.
- 5.4 Further information No data available

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.
- 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.

SECTION 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. For precautions see section 2.2.
- **7.2 Conditions for safe storage, including any incompatibilities** Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
 - hygroscopic Storage class (TRGS 510): Non-combustible, corrosive hazardous materials
- 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

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.

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 (EN 143) respirator cartridges as a backup to engineering controls. If th full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: powder Colour: white to cream			
b)	Odour	No data available			
c)	Odour Threshold	No data available			
d)	рН	1.2 - 1.4 at 20 g/l			
e)	Melting point/freezing dec. point	Melting point/range: 196-200 °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			
I)	Vapour density	No data available			
m)	Relative density	No data available			
n)	Water solubility	No data available			
o)	Partition coefficient: n- octanol/water	No data available			
p)	Auto-ignition 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			
Other safety information No data available					

SECTION 10: Stability and reactivity

10.1 Reactivity No data available

9.2

- 10.2 Chemical stability
 - Stable under recommended storage conditions.
- 10.3 Possibility of hazardous reactions No data available

- 10.4 Conditions to avoid No data available
- 10.5 Incompatible materials Strong oxidizing agents, Strong bases
- 10.6 Hazardous decomposition products Hazardous decomposition products formed under fire conditions. - Carbon oxides, Sulphur oxides Other decomposition products - No data available In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

No data available(1R)-[7,7-Dimethyl-2-oxobicyclo[2.2.1]hept-1-yl]methanesulphonic acid

Skin corrosion/irritation No data available((1R)-[7,7-Dimethyl-2-oxobicyclo[2.2.1]hept-1-yl]methanesulphonic acid)

Serious eye damage/eye irritation No data available((1R)-[7,7-Dimethyl-2-oxobicyclo[2.2.1]hept-1-yl]methanesulphonic acid)

Respiratory or skin sensitisation No data available((1R)-[7,7-Dimethyl-2-oxobicyclo[2.2.1]hept-1-yl]methanesulphonic acid)

Germ cell mutagenicity

No data available((1R)-[7,7-Dimethyl-2-oxobicyclo[2.2.1]hept-1-yl]methanesulphonic acid)

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((1R)-[7,7-Dimethyl-2-oxobicyclo[2.2.1]hept-1-yl]methanesulphonic acid)

Specific target organ toxicity - single exposure

No data available((1R)-[7,7-Dimethyl-2-oxobicyclo[2.2.1]hept-1-yl]methanesulphonic acid)

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available((1R)-[7,7-Dimethyl-2-oxobicyclo[2.2.1]hept-1-yl]methanesulphonic acid)

Additional Information

RTECS: Not available

burning sensation, Cough, wheezing, laryngitis, Shortness of breath, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin.((1R)-[7,7-Dimethyl-2-oxobicyclo[2.2.1]hept-1-yl]methanesulphonic acid) To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.((1R)-[7,7-Dimethyl-2-oxobicyclo[2.2.1]hept-1-yl]methanesulphonic acid)

SECTION 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((1R)-[7,7-Dimethyl-2-oxobicyclo[2.2.1]hept-1-yl]methanesulphonic acid)

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chem scrubber.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

14.2 UN proper shipping name ADR/RID: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. ((1R)-[7,7-Dimethyl-2-oxobicyclo[2.2.1]hept-1-yl]methanesulphonic acid) IMDG: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. ((1R)-[7,7-Dimethyl-2-oxobicyclo[2.2.1]hept-1-yl]methanesulphonic acid) IATA: Corrosive solid, acidic, organic, n.o.s. ((1R)-[7,7-Dimethyl-2-oxobicyclo[2.2.1]hept-1-yl]methanesulphonic acid) 14.3 Transport hazard class(es) ADR/RID: 8 IMDG: 8 14.4 Packaging group ADR/RID: II IMDG: II IMDG: II IATA: 8 14.4 Packaging group ADR/RID: II IMDG: II IMDG Marine pollutant: no IATA: no 14.6 Special precautions for user No data available IMDG Marine pollutant: no	14.1	UN numbe ADR/RID: 3	-	IMDG: 3261	IATA: 3261	
ADR/RID: 8 IMDG: 8 IATA: 8 14.4 Packaging group ADR/RID: II IMDG: II IATA: II 14.5 Environmental hazards ADR/RID: no IMDG Marine pollutant: no IATA: no 14.6 Special precautions for user	14.2	ADR/RID: IMDG:	CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. ((1R)-[7,7-Dimethyl-2- oxobicyclo[2.2.1]hept-1-yl]methanesulphonic acid) CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. ((1R)-[7,7-Dimethyl-2- oxobicyclo[2.2.1]hept-1-yl]methanesulphonic acid) Corrosive solid, acidic, organic, n.o.s. ((1R)-[7,7-Dimethyl-2-oxobicyclo[2.2.1]hept-1			
ADR/RID: II IMDG: II IATA: II 14.5 Environmental hazards ADR/RID: no IMDG Marine pollutant: no IATA: no 14.6 Special precautions for user	14.3	•	· · /	IMDG: 8	IATA: 8	
ADR/RID: no IMDG Marine pollutant: no IATA: no 14.6 Special precautions for user	14.4		• •	IMDG: II	IATA: II	
	14.5			IMDG Marine pollutant: no	IATA: no	
	14.6					

SECTION 15: Regulatory information

- **15.1** Safety, health and environmental regulations/legislation specific for the substance or mixture This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.
- **15.2 Chemical safety assessment** For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

H314 Causes severe skin burns and eye damage.

Further information

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. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.cdhfinechemical.com for additional terms and conditions of sale.

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