Version: 1.8
Effective Date: May 15, 2022

MATERIAL SAFETY DATA SHEET
Pine Oil

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Trade name: Pine Oil

Application of the substance / the preparation: Laboratory Chemical, flavor & fragrances

Manufacturer/Supplier: Cosmo Chemistry India, info@cosmochemistryindia.com

Further information obtainable from: Department Health, Safety and Environment

Information in case of emergency: Cosmo Chemistry India, Telephone No: +91-7984584838

SECTION 2: HAZARDS IDENTIFICATION

Hazard pictograms: Irritant (Xi), Flammable

Classification: Xi - Irritant

Hazard Classification: According to Regulation (EC) No. 1272/2008: Skin irritation (Category 2); Eye irritation (Category 2). According to European Directive 67/548/EEC as amended: Irritating to eyes and skin.

Hazard Statement(s)

H315	Causes skin irritation
H320	Causes eye irritation
H303	May be harmful if swallowed
H226	Flammable Liquid

R-Phrases

R10	Flammable
R36	Irritating to eyes
R38	Irritating to skin

S-Phrases

S16	Keep away from sources of ignition - No smoking
S24/25	Avoid contact with skin and eyes.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36	Wear suitable protective clothing
S62	If swallowed, do not induce vomiting: seek medical help immediately and show the container or label.

GHS Label Elements

Signal word: Warning. Combustible Liquid. Causes skin/eye irritation.

Prevention

P262	Do not get in eyes, on skin, or on clothing.

P264	Wash (hands/face) thoroughly after handling
P280	Wear protective gloves/protective clothing/eye protection/face protection
P273	Avoid release to environment
P305	If in eyes, rinse with plenty of water for at least 15 minutes. Get medical aid.
P332+313	If skin irritation occurs, get medical advice/attention.

Additional information: All chemicals are potentially dangerous. They should only be handled by specially trained personnel.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CAS No.	Description	EC Number
8002-09-3	Pine Oil	232-688-5

SECTION 4: FIRST-AID MEASURES

General information: Immediately remove any clothing soiled by the product and wash before reuse.

After inhalation: Supply fresh air.

After skin contact: Immediately rinse with water and soap. Cover the irritated skin with an emollient. If skin irritation continues, consult a doctor.

After eye contact: Rinse opened eye for 15 minutes under running water. If symptoms persist consult a doctor.

After swallowing: Rinse out mouth. Do not induce vomiting. Seek medical advice immediately and show the container or label.

SECTION 5: FIRE-FIGHTING MEASURES

Flammability of the product: Combustible

Auto-Ignition Temperature: Not available.

Flash Point: Closed cup: 51°C

Suitable extinguishing agents: SMALL FIRE: Use dry chemical powder. LARGE FIRE: Use water spray, fog or foam.

For safety reasons, unsuitable extinguishing agents: Do not use water jet.

Special hazards caused by the substance, its products of combustion or resulting gases: Formation of toxic gases is possible during heating or in case of fire.

Protective equipment: Wear self-contained respiratory protective device. Wear fully protective suit.

Additional information: Prevent fire-fighting water from entering surface water or groundwater. Cool all affected containers (opened) with flooding quantities of water. Cool all affected containers (unopened) with water spray.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Person-related safety precautions: Ensure adequate ventilation. Do not breathe vapor/spray. Avoid contact with the eyes and skin. Wear protective clothing.

Measures for environmental protection: Do not allow to penetrate the ground/soil. Do not allow to enter sewers/surface or ground water. Keep contaminated washing water and dispose of appropriately.

Small Spill: Absorb with inert material/liquid-binding material.

Large Spill: Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section

13). Keep in suitable, closed containers for disposal. Combustible material. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Finish cleaning by spreading water on the contaminated surface and dispose of the material collected as per local laws and regulations. Ensure adequate ventilation.

SECTION 7: HANDLING AND STORAGE

Precautions: Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/vapor/spray. Avoid contact with eyes. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents.

Storage: Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). Sensitive to light. Store in light-resistant containers.

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

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

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

Additional information: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

General protective and hygienic measures

Do not eat, drink or sniff while working. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Do not inhale gases/fumes/aerosols. Avoid contact with eyes and skin.

Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. Use suitable respiratory protective device only when aerosol or mist is formed. Required when vapors/aerosols are generated.

Personal protective equipment

Protection of hands: Protective gloves

Material of gloves: Nitrile, thickness 0.4 mm. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material: The exact break-through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Tightly sealed goggles

Body protection: Protective work clothing

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

General Information

Property	Value
Boiling Point (760 mmHg)	240 °C
Vapour Pressure (mmHg, 30°C)	< 1
Vapour Density (Air = 1)	5.30
Solubility in water	Practically Insoluble

Property	Value
Appearance	Colorless to pale yellow
Odor	Cineolic, camphoraceous
Specific Gravity (Water = 1)	0.8800 @ 20 °C
Percent Volatiles by volume	100%
Evaporation rate (Butyl Acetate = 1)	N.A.
Melting Point	N.A.
Physical State	Liquid

SECTION 10: STABILITY AND REACTIVITY

Stability: This product is stable under recommended storage conditions.

Thermal decomposition / conditions to be avoided: No decomposition if used and stored according to specifications.

Materials to be avoided: Strong oxidizing agents.

Conditions to be avoided: Prolonged or excessive heat and open flames/sparks.

Dangerous reactions: No information available.

Dangerous decomposition products: Liable to cause smoke & acrid fumes during combustion: carbon monoxide & carbon dioxide may be formed.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity

LD50 values relevant for classification: Oral LD50 3200 mg/kg (Rat); Dermal LD50 5000 mg/kg (Rabbit)

Primary irritant effect

On the skin: Slight irritations.

On the eye: Irritating effect.

After inhalation: Slight irritations in respiratory tract.

Sensitization: No data available

Ingestion: May be harmful

Further information: The product should be handled with the care usual when dealing with chemicals.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: No data available.

Aquatic toxicity: Quantitative data on the ecological effect of this product are not available.

Remark: Do not allow to enter waters, waste water, or soil. Harmful to aquatic environment. Toxic for fish.

General notes: Water hazard class 1 (German Regulation) (Self-assessment): hazardous for water. Do not allow product to reach ground water, water course or sewage system.

SECTION 13: DISPOSAL CONSIDERATIONS

Recommendation: The disposal is regionally differently regulated; therefore the kind of disposal is to be inquired at the responsible authorities. This material and its container must be disposed of as hazardous waste.

Un-cleaned packaging: Disposal according to official regulations.

SECTION 14: TRANSPORT INFORMATION

Item	ADR/RID (Land)	IMDG (Maritime)	ICAO/IATA (Air)
Class	3 - Flammable liquids	3	3
UN Number	1272	1272	1272
Danger code (Kemler)	30	-	-
Packaging group	III	III	III
Hazard label	3	3	3
Marine pollutant	-	Yes (P)	-
Proper shipping name	PINE OIL	PINE OIL	PINE OIL

UN "Model Regulation": UN1272, PINE OIL, 3, III

SECTION 15: REGULATORY INFORMATION

Labeling according to EU guidelines: Classification and labeling have been performed according to EU directive 67/548/EEC / directive 1999/45/EC.

R-Phrases

R10: Combustible Liquid; R36: Irritating to eyes; R38: Irritating to skin

S-Phrases

S16: Keep away from sources of ignition - No smoking; S24/25: Avoid contact with skin and eyes; S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice; S36: Wear suitable protective clothing; S62: If swallowed, do not induce vomiting - seek medical help immediately and show the container or label.

National Regulations

Information about limitation of use: Employment restrictions concerning juveniles must be observed. In dealing with chemicals the national laws must be observed.

Water hazard class: Water hazard class 1 (Self-assessment): hazardous for water.

SECTION 16: OTHER 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. Cosmo Chemistry India shall not be held liable for any damage resulting from handling or from contact with the above product. Further, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant R-phrases: Irritating to skin & eyes; Combustible Liquid

Department issuing MSDS: Department: Health, Safety and Environment

Contact Person: T.L. Arora

Abbreviations and acronyms

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road; RID: Regulations Concerning the International Transport of Dangerous Goods by Rail; IMDG: International Maritime Code for Dangerous Goods; IATA: International Air Transport Association; IATA-DGR: Dangerous Goods Regulations by IATA; ICAO: International Civil Aviation Organization; ICAO-TI: Technical Instructions by ICAO; P: Marine Pollutant; GHS: Globally Harmonized System of Classification and Labelling of Chemicals; EINECS: European Inventory of Existing Commercial Chemical Substances; CAS: Chemical Abstracts Service; LC50: Lethal concentration, 50 percent; LD50: Lethal dose, 50 percent.

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