

MATERIAL SAFETY DATA SHEET

TURPENTINE OF VENICE

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

1.1. Product Identifier

Code: Turpentine 1L - DRG-DIV-421
Product Name: Turpentine of Venice or Turpentine
IC Color: NA

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Preparation: Cleaning and thinning agent for oil based paints

1.3. Details of the Supplier of the Safety Data Sheet

Company: COLOR RARE LTD (Canada) | COLOR-RARE L.L.C. (USA)
Tel/Fax:
Internet: www.colorare.ca | www.colorare.us
Emergency No.:

Canada Contact your local Provincial Poison Centre or 911

<http://www.capcc.ca/>

Ontario: 1-800-268-9017

Quebec: 1-800-463-5060

USA American Association of Poison Control Centers 1-800-222-1222

<http://www.aapcc.org/>

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture.

The product is classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

2.1.1. Regulation 1272/2008 (CLP) and following amendments and adjustments.

Made in Italy

Head office: Color-Rare France: 19, rue Pablo Neruda - 33140 Villenave d'Ornon
www.colorare.fr / 33@colorare.fr / Tel: 05 56 52 04 79

Imported and distributed in USA by COLOR-RARE L.L.C and in Canada by COLOR-RARE LTD

Hazard classification and indication:

Acute toxicity - Inhalation (Vapors)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Skin sensitization	Category 1
Specific target organ toxicity (single exposure)	Category 2 Category 3
Aspiration toxicity	Category 1
Flammable liquids	Category 3

2.1.2. Directive 67/548/EEC and following amendments and adjustments.

Danger Symbols: NA
R phrases: NA

The full wording of the Risk (R) and hazard (H) phrases is given in section 16 of the sheet.

2.2. Label elements.

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Pictograms:



Signal words: Danger, Warning

Hazard statements:

Harmful if inhaled
Causes skin irritation
Causes serious eye irritation
May cause an allergic skin reaction
May cause damage to organs
May cause respiratory irritation
May cause drowsiness or dizziness
May cause damage to organs through prolonged or repeated exposure
May be fatal if swallowed and enters airways
Flammable liquid and vapor

Other hazards:

Toxic to aquatic life with long lasting effects

Precautionary statements:

Use only outdoors or in a well-ventilated area
Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection
Contaminated work clothing must not be allowed out of the workplace
Do not breathe dust/fume/gas/mist/vapors/spray
Do not eat, drink or smoke when using this product
Keep away from heat/sparks/open flames/hot surfaces. — No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use explosion-proof electrical/ventilating/lighting/.../equipment
Use only non-sparking tools
Take precautionary measures against static discharge

IN CASE OF FIRE: Use dry chemical, water spray, alcohol-resistant foam or CO2 to extinguish.

- P264** Wash thoroughly after handling.
P280 Wear protective gloves / eye protection / face protection.
P302+P352 IF ON SKIN: Remove all contaminated clothing and wash before wearing again. wash skin with plenty of water . If irritation / rash occurs/ continues, seek medical advice.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER / doctor. Do not induce vomiting.
P304+P340 IF INHALED: Transport person outside and hold them in a position where they can breathe comfortably. Call a POISON CENTER or doctor/physician if you feel unwell.
P403+P233 Store in a locked and well-ventilated area. Keep the container closed tightly.

Contains: 100% turpentine

2.3. Other hazards.

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

SECTION 3: Composition/Information on Ingredients

100% turpentine
EINECS Number: 235-350-7
CAS Number: 8006-64-2

SECTION 4: First-Aid Measures

General information: It is not recommended to inhale this product, or put into eyes or mouth or on skin.

EYES: Immediately rinse eyes with plenty of water for at least 15 minutes, occasionally lifting upper and lower lids, until no evidence of product remains. Get medical attention if pain or irritation persist.

SKIN: Remove all affected clothing and wash before reuse. Rinse affected area with large amounts of water until no evidence of product remains. Get medical attention if irritation or rash occurs or persists.

INGESTION: Treat symptomatically and supportively. Maintain airway and respiration. Do not induce vomiting. If vomiting occurs, keep head below hips to prevent aspiration. Dilution by rinsing the mouth and giving water or milk to drink is generally recommended. If unconscious, the victim should not be given anything to drink. Contact physician or local poison control center.

INHALATION: Immediately remove from exposure area to fresh air. Keep affected person warm and at rest. Treat symptomatically and supportively. Contact physician or local poison control center. If breathing has stopped, give artificial respiration, and get medical attention immediately.

NOTE TO PHYSICIAN: The physician's judgment should be used to control symptoms and clinical condition based on the individual reactions of the patient.

Most important symptoms and effects, both acute and delayed:

Causes skin irritation. Causes serious eye irritation. Irritating to respiratory system. May cause an allergic skin reaction. May cause damage to organs. May cause digestive (gastrointestinal) tract irritation. Aspiration hazard if swallowed - can enter the lungs and cause damage. Aspiration into the lungs may cause chemical pneumonitis. Aspiration into the lungs may cause pulmonary edema. Dyspnea (Shortness of breath and difficulty breathing). May cause cyanosis. May cause nausea, headache, vomiting. Dizziness. Convulsions. May cause diarrhea. Ataxia. Weak, rapid pulse or rapid heart rate (Tachycardia). It may affect the kidneys. May affect the liver. Indication of any immediate medical attention and special treatment needed.

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing media

Extinguish using agent suitable for type of surrounding fire. Product is extremely flammable.

SUITABLE: Use dry chemical, water spray mist or foam, alcohol-resistant foam or CO₂ to extinguish.

UNSUITABLE: Do not use a solid (straight) water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Do not inhale fumes or get product on skin, in mouth or in eyes.

Carbon Monoxide, Carbon Dioxide.

Flammable. May be ignited by heat, sparks or flames. Container explosion may occur under fire conditions or when heated. Most vapors are heavier than air. They will spread along the ground and collect in low or confined areas (sewers, basements, tanks). Fire may produce irritating, corrosive and/or toxic gases.

5.3. Advice for firefighters.

GENERAL INFORMATION

In case of fire, wear a full-face positive-pressure self-contained breathing apparatus and protective suit. Move container from fire area if you can do it without risk. Apply cooling water to sides of containers that are exposed to flames until well after fire is out. Use flooding amounts of water as a fog, solid streams may be ineffective. Avoid inhaling vapors; keep upwind.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

For larger fires, use water spray or fog. Cool containers with flooding quantities of water until well after fire is out. Dike fire-control water for later disposal; do not scatter the material.

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes and clothing. Wear skin, eye and respiratory protection as recommended in Section 8. Stop or reduce any leaks if it is safe to do so. Spills present a slipping hazard. Keep unnecessary personnel away. Ensure adequate ventilation. Ventilate spill area if possible. Ensure clean-up is conducted by trained personnel only. Make sure area is slip-free before re-opening to traffic. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use personal protective equipment. Use spark-proof tools and explosion-proof equipment. All equipment used when handling the product must be grounded. Remove all sources of ignition.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Prevent entry into waterways, sewers, basements or confined areas. For disposal of larger quantities check with your local water treatment plant.

6.3. Methods and material for containment and cleaning up

Absorb spill with inert material (e.g. vermiculite, dry sand or earth), then place in a suitable chemical waste container. In case of large spill, dike if needed. Dike far ahead of liquid spill for later disposal.

Use appropriate tools to put the spilled material in a suitable chemical waste disposal container. Use only non-sparking tools. Clean contaminated surface thoroughly.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7: Handling and Storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet.

Hygienic measures: Wash hands at the end of work. Preventive skin protection recommended.

Do not get in eyes or on skin. Do not take internally. Use with adequate ventilation. Avoid generating aerosols and mists. Keep the containers closed when not in use. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Provide sufficient air exchange and/or exhaust in work rooms. All

equipment used when handling the product must be grounded. Remove all sources of ignition. Keep away from incompatible materials.

7.2. Conditions for safe storage, including any incompatibilities

Store in original containers in a cool dry area, tightly closed. Store away from excessive heat and incompatible substances. Storage areas should be well ventilated. Keep the containers tightly closed and clearly labeled containers when not in use. Store away from incompatible materials. Store in a segregated and approved area.

Incompatible Materials: Oxidizing agents, Chromic anhydride, Chlorine Chromyl, chloride calcium, hypochlorite

7.3. Specific end use(s).

Information not available.

SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

National occupational exposure limits

United States

Components	OSHA	NIOSH	ACGIH	AIHA WEEL
Turpentine	100 ppm TWA 560 mg/m ³ TWA	100 ppm TWA 560 mg/m ³ TWA	20 ppm TWA	None

Canada

Components	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Turpentine	20 ppm TWA 111 mg/m ³ TWA	20 ppm TWA	20 ppm TWA	20 ppm TWAEV 112 mg/m ³ TWAEV

Australia and Mexico

Components	Australia	Mexico
Turpentine	100 ppm TWA 557 mg/m ³ TWA	100 ppm TWA 560 mg/m ³ TWA

8.2. Exposure controls

Ensure adequate ventilation, especially in confined areas. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below their respective threshold limit value.

ENGINEERING CONTROLS: Provide local exhaust or general dilution ventilation to keep potential exposure to airborne contaminants as low as possible.

RESPIRATOR: Air contamination monitoring should be carried out where dusts are likely to be generated, to assure that the employees are not exposed to airborne contaminants above the permissible exposure limits. If respiratory protection is required, it must be based on the contamination levels

found in the workplace, must not exceed the working limits of the respirator and be jointly approved by the National Institute for Occupational Safety and Health and the Mine Safety and Health Administration (NIOSH-MSHA).

FOR FIRE FIGHTING AND OTHER IMMEDIATELY DANGEROUS TO LIFE OR HEALTH CONDITIONS: Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode. Any supplied-air respirator that has a full facepiece and is operated in a pressure-demand or other positive pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure demand or other positive-pressure mode.

CLOTHING: Protective clothing is required where repeated or prolonged skin contact may occur.
GLOVES: Chemical-resistant gloves are required where repeated or prolonged skin contact may occur.
EYE/FACE PROTECTION: Safety glasses are required to prevent eye contact where dusty conditions are anticipated.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance:	yellowish, clear, viscous liquid
Colour:	Yellowish
Odour:	strong, resinous
Odour threshold:	100ppm
pH:	not available.
Melting point:	-55 °C (-67 °F; 218 K)
Boiling point:	154 °C (309 °F; 427 K)
Distillation range:	Not available.
Flash point:	35°C (97°F) flammable, combustible and explosive.
Evaporation Rate:	Not available.
Flammability of solids and gases:	Not available.
Lower inflammability limit:	Not available.
Upper inflammability limit:	Not available.
Lower explosive limit:	Not available.
Upper explosive limit:	Not available.
Vapour pressure:	@ 20°C (kPa) 0.667 @ 25
Vapour density:	4.7
Specific gravity:	0.86g/ml à 25°C
Solubility:	Very slightly soluble in Methanol. Very slightly soluble in diethyl ether. Insoluble in cold water Insoluble in hot water
Partition coefficient: n-octanol/water:	Not available.
Ignition temperature:	(°C/°F): 253°C (487.4°F)
Decomposition temperature:	Not available.
Viscosity:	Not available.
Reactive Properties:	reacts vigorously with oxidizers.
VOC (Directive 2004/42/EC):	Not available.

VOC (volatile carbon): Not available.
Density (g/cm³): 0.860 - 0.875 at 20 °C
Chemical Formula: C₁₀H₁₆

SECTION 10: Stability and Reactivity

10.1. Reactivity

Reacts with other chemicals, see 10.5. Hazardous polymerization does not occur.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid

Avoid storing in heat, direct sunlight, avoid extremes of temperature, avoid contact with incompatible substances and ignition sources.

10.5. Incompatible materials.

Oxidizing agents
Chromic anhydride
Chlorine
Chromyl chloride calcium hypochlorite

10.6. Hazardous decomposition products.

Thermal decomposition products may include Carbon oxides.

SECTION 11: Toxicological Information

11.1. Information on toxicological effects

Information on likely routes of exposure - Principal Routes of Exposure:

Eyes. Skin. Ingestion. Inhalation.

Acute Toxicity

Component Information

Turpentine

LD₅₀/oral/rat = 5760 mg/kg Oral LD₅₀ Rat

LD₅₀/oral/mouse = No information available

LD₅₀/dermal/rabbit = > 5010 mg/kg

LD₅₀/dermal/rat = No information available

LC₅₀/inhalation/rat = 12 g/m³ Inhalation LC₅₀ Rat 6 h

13700 mg/m³ 4 h

LC₅₀/inhalation/mouse = No information available

Other LD₅₀ or LC₅₀ information = No information available

Product Information

LD₅₀/oral/rat =

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VALUE- Acute Tox Oral = 5760 mg/kg
LD50/oral/mouse =
Value - Acute Tox Oral = No information available
LD50/dermal/rabbit
VALUE-Acute Tox Dermal = > 5010 mg/kg
LD50/dermal/rat
VALUE -Acute Tox Dermal = No information available
LC50/inhalation/rat
VALUE-Vapor = 13.7 mg/l (4-hr)
VALUE-Gas = No information available
VALUE-Dust/Mist = No information available
LC50/Inhalation/mouse
VALUE-Vapor = No information available
VALUE - Gas = No information available
VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: Causes skin irritation. May cause allergic skin reaction. May cause sensitization by skin contact.

Eye Contact: Causes serious eye irritation.

Inhalation Harmful by inhalation. May cause irritation of respiratory tract. May affect respiration (respiratory depression). May cause respiratory difficulty and unconsciousness. It may cause pulmonary edema. Symptoms may include coughing and wheezing. May cause dyspnea (difficulty breathing or shortness of breath). May cause nausea, vomiting. May cause dizziness and headache. It may affect behavior/central nervous system (ataxia). It may affect behavior/central nervous system (convulsions/seizures). May affect behavior/central nervous system (confusion). It may affect the liver. May cause increased heart rate (tachycardia).

Ingestion May cause digestive (gastrointestinal) tract irritation. Aspiration hazard if swallowed. Aspiration may lead to pulmonary edema. Aspiration into the lungs can cause chemical pneumonitis. May cause cyanosis. It causes irritation or a burning sensation of the mouth and throat. May cause vomiting. May cause diarrhea. May cause abdominal pain. May affect urinary system (kidneys). May affect the cardiovascular system (tachycardia). May affect behavior/central nervous system (ataxia). It may affect behavior/central nervous system (convulsions, excitement).

Aspiration hazard May be fatal if swallowed and enters airways.

Delayed and immediate effects as well as chronic effects from short and long-term exposure
Chronic Toxicity Skin: Sensitizer. May cause allergic skin reaction (allergic contact dermatitis). Repeated exposure may cause bronchitis to develop with cough, phlegm, and /or shortness of breath. Chronic exposure may affect the kidneys and cause kidney damage.

Sensitization: May cause sensitization by skin contact.

Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Turpentine	8006-64-2	Not listed	A4 Not Classifiable as a Human Carcinogen	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity No data is available

Reproductive Effects: No information available

Developmental Effects: No information available

Teratogenic Effects: No information available

Specific Target Organ Toxicity

STOT - single exposure No information available. STOT - repeated exposure No information available.

Target Organs: Kidneys. Lungs. Bladder. Central nervous system. Nervous system.

SECTION 12: Ecological Information

The product is a natural earth mineral and will not produce ecological negative effects. This product is anticipated to be safe for the environment at concentrations predicted in household settings under normal use conditions.

12.1. Toxicity.

Information not available.

12.2. Persistence and degradability.

The persistence and degradability of this product for aquatic organisms is high.

12.3. Bio accumulative potential.

The persistence and degradability of this product for aquatic organisms is high.

12.4. Mobility in soil.

The mobility of this product (in soil and water) has not been determined.

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12.5. Results of PBT and vPvB assessment.

Information not available.

12.6. Other adverse effects.

Information not available.

SECTION 13: Disposal Considerations

13.1. Waste treatment methods.

This product is hazardous waste and must be disposed of in accordance with federal, provincial and local regulations.

SECTION 14: Transport Information

NO RESTRICTIONS. This material is not considered as dangerous according to the current provisions on road transport of dangerous goods.

14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Information not relevant

SECTION 15: Regulatory Information

This product is a dangerous substance according to EEC regulations.

SECTION 16: Other Information

The information contained in this document is based on our own knowledge on the date of the current version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The correct and safe use of this product is the responsibility of the user; therefore, users must, comply with the current health and safety laws and regulations. Colorare is not liable for improper use of the product.

GENERAL BIBLIOGRAPHY

1. Directive 1999/45/EC and following amendments
2. Directive 67/548/EEC and following amendments and adjustments
3. Regulation (EC) 1907/2006 (REACH) of the European Parliament
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5. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
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10. INRS - Fiche Toxicologique (toxicological sheet)
11. Patty - Industrial Hygiene and Toxicology
12. N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition