

MATERIAL SAFETY DATA SHEET

SECTION 1 : IDENTIFICATION

FAX

PRODUCT NAME : Hemlock Spruce BOTANICAL NAME Tsuga canadensis

SYNONYM(S): Pinus canadensis. Picea canadensis. Abies canadensis

var. gr

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INCLNAME :

Tsuga canadensis leaf oil 8008-10-4 HS CC CAS TSCA HS CODE : 3301.29 CAS EINECS : 8008-80-8 **EINECS:** N/A FEMA:

N/A COE COUNTRY OF ORIGIN: Canada FDA CODE N/A

N/A

SECTION 2: COMPOSITION AND INGREDIENTS INFORMATION

CONTENTS: Bornyl acetate (20-35%), a-pinene (16-24%), camphene (13-20%), tricyclene, myrcene, limonene, b-pinene, b-phellandrene, piperitone, a-

phellandrene, terpinen-4-ol SECTION 3 : HAZARDS IDENTIFICATION

HAZARDOUS INGREDIENTS MEDICAL INFORMATION

Class 3 Flammable Liquids N/A

SECTION 4: FIRST AID MEASURES

EYE CONTACT : Contact with eyes can produce burning sensation. Irrigate with water immediately, continue flushing eyes with water for 15 minutes.

Seek medical attention if irritation persists

INHALATION : Remove to fresh air. Give oxygen if breathing is labored and seek medical advice. Avoid casual breathing. Signs of over-exposure are dizziness

and nausea

INGESTION Rinse mouth; dilute with milk or water and consult a physician immediately. Do not induce vomiting. Never give anything by mouth it victim is unconscious, is rapidly losing consciousness or is convulsing.

Skin contact can produce irritation or itching of the skin. Remove contaminated clothing. Wash with soap and plenty of water. Seek medical

attention if irritation persists.

SECTION 5 : FIRE FIGHTING MEASURES

FLASH POINT:

EXTINGUISHING MEDIA Carbon Dioxide, dry chemical or foam. Closed containers may build up pressure at elevated temperature.

SPECIAL PROCEDURES Determine the need to evacuate or isolate the area according to your local emergency plan

UNUSUAL FIREFIGHTING HAZARDS None identitied

Self-contained breathing apparatus and protective clothing should be worn when fighting fires involving essential oils or chemicals PROTECTIVE EQUIPMENT

Carbon Monoxide, Carbon Dioxide COMBUSTION PRODUCT

SECTION 6 : ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

SKIN CONTACT :

Use of self-contained breathing apparatus is recommended for any major chemical spill. Refer also to section 8. SAFETY PRECAUTIONS : Eliminate all ignition sources. Ventiate area. Determine the need to evacuate or isolate the area according to your local emergency plan.

ENVIRONMENTAL PRECAUTIONS

METHODS FOR CLEANING UP

Keep away from drains, surface and ground water. Report spills to appropriate Authorities if required.

Contain and collect with inert absorbent material and place in suitable container for disposal. Comply with all federal, state, and local regulation.

Wipe small spills with cloth. Clean with hot water and detergent.

SECTION 7: HANDLING AND STORAGE

HANDLING : Avoid inhalation and contact with skin and eyes. Good personal hygiene practices should he used. Wash after any contact, before breaks and

meals, and at the end of the work period. Contaminated clothing and shoes should be cleaned before re-use.

Containers should be kept closed in order to minimize contamination. Store in a cool, dry, well ventilated place protected from light. Keep away STORAGE:

from extreme heat and from freezing conditions and away from all sources of ignition. Make sure the material does not come into contact with

substances listed as: "Materials to Avoid"

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

EYES PROTECTION: The use of safety glasses is recommended. If a material is to be handled in a manner where splashing may occur, the use of splash goggles or

face shield is recommended.

RESPIRATORY PROTECTION: In well-ventilated areas, respiratory protection is not normally required. In confined, poorly ventilated areas the use or "NIOSH" approved

respiratory protection normally required (use only if trained in proper use and with acceptable oxygen level). PROTECTIVE GLOVES: Using chemical resistant gloves is recommended.

PROTECTIVE CLOTHING Using chemical resistant clothing is recommended

PROTECTIVE EQUIPMENT: An eyewash fountain and / or sarety showershould be available in the work area. Acceptable industrial hygiene practices should be maintained. NOTE:

These precautions are for room temperature handling. Use at elevated temperature or aerosol / spray applications may require additional

precautions

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NB: This is page 1/2, containing MSDS information Sections 1 to 8. See page 2/2 for MSDS information Sections 9 to 17.



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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Colorless to pale yellow liquid

Characteristic fresh balsamic sweet fruity odor

REFRACTIVE INDEX : 1.466 - 1.472 @ 20°C

SOLUBILITY Soluble in alcohol and oils. Insoluble in water SPECIFIC GRAVITY: 0.907 - 0.926 @ 20°C

FLASH POINT 42 °C MELTING POINT N/A BOILING POINT : N/A VAPOR PRESSURE N/A VAPOR DENSITY (AIR = 1): 0.910 g/mL OPTICAL ROTATION: -25.0 - -15.0 @ 20°C

SECTION 10: STABILITY AND REACTIVITY

STABILITY Chemically stable. This material presents no significant reactivity hazard.

CONDITIONS TO AVOID: Avoid sparks. Ilarne and excessive heat. Strong midizing agents.

MATERIAIS TO AVOID : FI AMMARII ITY Combustile liquid HAZARDOUS POLYMERIZATION : Will not occur

HAZARDOUS COMBUSTION When heated to decomposition produces acid fumes and carbon monoxide smoke.

SECTION 11: TOXICOLOGICAL INFORMATION

INHALATION Inhalation ot high concentration of vapor may result in irritation on eyes,

SKIN CONTACT Repeated or prolonged contact can cause redness. irritation and scaling of skin (Dermatitis). EYE CONTACT

INGESTION: Low order vorticity arising iritation of the stomach and intestines, resulting it nausea and vomiting MEDICAL CONDITIONS May aggravate dermatitis, psoriasis and other skin conditions

AGGRAVATED BY EXPOSURE : REPRODUCTIVE TOXICITY :

No adverse effects on reproduction are known.

ACUTE TOXICITY VALUES No data is currently available

SECTION 12 : ECOLOGICAL INFORMATION

GENERAL Very toxic to aquatic organism; may cause long-term adrerse effects in the aquatic environment.

PRODUCTS OF BIODEGRADATION : Avoid any pollution of ground, surface or underground water

TOXICITY OF PRODUCTS OF BIODEGRADATION

SECTION 13: DISPOSAL CONSIDERATION

WASTE DISPOSAL: Incineration or sanitary landfill in accordance with local, provincial and federal regulations. Check with disposal expert to insure compliance.

SECTION 14: TRANSPORT INFORMATION

US DOT SHIPPING DESCRIPTION : Class : 3 Flammable liquids UN1169 : Liquid aromatic extract CLASS 3

UN No. : PACKAGING GROUP : PGIII IATA SHIPPING (AIR) Label 3

IMDG SHIPPING DESCRIPTION: Marine polluant : yes

SECTION 15: OTHER REGULATORY INFORMATION

WHMIS (CANADA) Group III, Class 3

HMIS (USA): Health Hazard - N/A; Fire Hazard - N/A; Reactivity - N/A

SARA 302/ SARA 313 : CALIFORNIA PROPOSITION 65

This product does not contain chemical listed per the Safe Drinking Water and Enforcement Act of 1986. R10 - Flammable.

EUROPEAN UNION LABELING :

Xn R22 - Harmfull is swalld Xi R38 - Irritation to skin

S36/37/38 - Wear suitable protective clothing, gloves and eye/face protection.

SECTION 16: OTHER INFORMATION

When utilized by professionals following the conventional good manufacturing practices, the aromatic materials are not severly dangerous. However, the preceding precautions and the following general operation rules must be respected. Keep the product away from any food or drink. It is an industrial product and must not be ingested as such Eating, drinking and smoking should not be permitted in handling and packaging areas. Cases of auto-flammability of several fragrance materials are reported. Consequently, the materials used to mop up the product (sponges, absorbent papers, sawdust, etc...) must be rapidly eliminated. The refuse-bins in the manufacturing areas must be cleared out. Transfer to a flammable waste container and incinerate at approved site. The product must not be heated with, or exposed to, open flames or other sources of ignition. Do not expose the product to unprotected electrical equipment. Never overheat the product. Do not breathe hot vapours. In any case of potential poisoning, get medical advice.

SECTION 17 : DISCLAIMER

The information above is given is good faith and is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall ZAYAT AROMA INC. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if ZAYAT AROMA INC. has been advised of the possibility of such damages. This data is not to be constructed as absolutely complete since additional data may be desirable when particular conditions or circumstances exist. This data relates only to the specific material designated and not to be used in combination with any other material. Many regulations pertain directly or indirectly to the product's end use and disposal of containers and unused material. It is the purchaser's responsibility to familiarize themselves with all applicable regulations.

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