HS Ag Shop

Material Safety Data Sheet

WHMIS (Pictograms)	WHMIS (Classification)	Personal protective equipment
	Class B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).	

Section 1. Product and Company Identification

Product name / Trade name	Odorless Mineral Spirits	**Associated Product's Item Code**	83-311
Synonym	Low odour petroleum distillate	**CAS #**	64742-47-8
Chemical family	Solvent.	**Validation date**	Feb. 13 2009
Chemical formula	Not available.	**Print date**	Feb. 13 2009
Manufacturer	Recochem Inc. 850 Montee de Liesse Montreal, Quebec H4T 1P4 (514) 341-3550 www.recochem.com	**In case of emergency**	Recochem Inc. Communications and Regulatory Affairs Department (905) 791-1788
Material uses	Consumer products: Solvent.		

Section 2. Hazards identification

Emergency Overview

WARNING !

COMBUSTIBLE.

Combustible liquid Keep away from heat, sparks and flame. Avoid breathing vapor or mist. Avoid contact with skin and clothing. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use.

Potential Acute Health Effects

See section 11 for more detailed information on health effects and symptoms.

This product may irritate eyes and skin upon contact.
Inflammation of the eye is characterized by redness, watering, and itching.
Skin inflammation is characterized by itching, scaling, reddening.
Ingestion can cause burning sensation, vomiting, drowsiness and in severe cases pulmonary edema.
Inhalation of excessive amounts may result in impairment, such as drowsiness, lack of coordination, headache and nausea.

Note to Physician

Not available.

Section 3. Composition, information on ingredients

Canada

Name	CAS number	%
distillates (petroleum), hydrotreated light	64742-47-8	100

There are no ingredients or additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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Section 4. First aid measures

Eye contact	Immediately flush eyes with plenty of water for at least 60 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Skin contact	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Inhalation	Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Ingestion	Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Notes to physician	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Section 5. Fire fighting measures

Products of combustion	No specific data.
Fire-fighting media and instructions	Use dry chemical, CO_2, water spray (fog) or foam.
Fire Hazards	Container explosion may occur under fire conditions or when heated. Vapor may travel considerable distance to source of ignition and flash back. Vigourously supports combustion. Combustible when exposed to heat or flame.
Explosion Hazards	Vapors may travel along ground and flashback along vapor trail.

Section 6. Accidental release measures

Small spill and leak	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.
Large spill and leak	Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

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Section 7. Handling and Storage

Handling

Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

Storage

Do not store above the following temperature: 43°C (109.4°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls, personal protection

Engineering controls

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Personal protection

Eyes Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.
Recommended: splash goggles

Body Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hands Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
>8 hours (breakthrough time): nitrile rubber

Product name	Exposure limits
Canada	
distillates (petroleum), hydrotreated light	**ACGIH (Canada, 2003).** TWA: 100 ppm 8 hour(s). TWA: 525 mg/m³ 8 hour(s). **CA British Columbia Provincial (Canada, 7/2007). Skin Notes: as total hydrocarbon vapour** TWA: 200 mg/m³, (as total hydrocarbon vapour) 8 hour(s).
United States	
distillates (petroleum), hydrotreated light	**OSHA (United States, 2003).** TWA: 500 ppm 8 hour(s). TWA: 2900 mg/m³ 8 hour(s). **ACGIH TLV (United States, 1/2007). Skin** TWA: 200 mg/m³ 8 hour(s).

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Section 9. Physical and chemical properties

Physical State and Appearance	Liquid.	**Odour**	Petroleum distillate, minimal aromatic odour. [Slight]
Molecular weight	Not available.	**Taste**	Not available.
pH	Not available.	**Colour**	Colourless.
Boiling/condensation point	151 to 205°C (303.8 to 401°F)	**Volatility**	100% (v/v). 100% (w/w).
Melting/freezing point	-58°C (-72.4°F)	**Evaporation rate**	0.1 compared with Butyl acetate.
Relative density	0.78 to 0.8	**Odour Threshold**	Not available.
Vapour Pressure	0.29 kPa (2.2 mm Hg)	**Viscosity**	Kinematic: 0.0114 cm^2/s (1.14 cSt)
Vapour Density	5 [Air = 1]	**Solubility**	Easily soluble in the following materials: diethyl ether, n-octanol. Insoluble in the following materials: water, methanol.
VOC Content	790 (g/l).	**Other Properties**	Not available.

The product is:	Combustible.
Auto-ignition temperature	229°C (444.2°F)
Flash Point	Closed cup: 42°C (107.6°F) [Tagliabue.]
Flammable limits	Lower: 1% Upper: 13.3%
Fire hazards in the presence of various substances	Flammable in the presence of open flames, sparks and static discharge, of heat.

Section 10. Stability and reactivity

Stability	The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.
Conditions of instability	Not available.
Incompatibility with various substances	Reactive with oxidizing agents.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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Section 11. Toxicological Information

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Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
distillates (petroleum), hydrotreated light	LD50 Oral	Rat	>5000 mg/kg	-

Conclusion/Summary : Not available.

Chronic toxicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
distillates (petroleum), hydrotreated light	A3	-	-	-	-	-

Mutagenicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Section 12. Ecological information

For accidental discharges into the environment, see Section 6:"Accidental Release Measures" for suggested instructions.

ʌironmental effects : No known significant effects or critical hazards.

Canada

Aquatic ecotoxicity

Product/ingredient name	Test	Result	Species	Exposure
distillates (petroleum), hydrotreated light	-	Acute LC50 5900 ug/L Fresh water	Fish - Lepomis macrochirus	4 days
	-	Acute LC50 2900 ug/L Fresh water	Fish - Oncorhynchus mykiss	96 hours
	-	Acute LC50 2600 ug/L Fresh water	Fish - Oncorhynchus mykiss	4 days
	-	Acute LC50 2400 ug/L Fresh water	Fish - Oncorhynchus mykiss	4 days
	-	Acute LC50 2200 ug/L Fresh water	Fish - Lepomis macrochirus	4 days

Conclusion/Summary : Not available.

Biodegradability

Conclusion/Summary : Not available.

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Section 13. Disposal considerations

Waste information The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Section 14. Transport information

Canada TDG Classification	
Class	Class 3: Flammable liquid.
Subsidiary class	-
Proper Shipping Name (Canada) TDG	PETROLEUM DISTILLATES, N.O.S. (distillates (petroleum), hydrotreated light)
UN number	UN 1268
Packing Group	III
Special provisions	In containers of 450L or less this product is not classified as a Dangerous Goods according to TDG exemption 1.33

IMDG Classification	
Class	Class 3: Flammable liquid.
Subsidiary class	-
Proper Shipping Name IMDG	PETROLEUM DISTILLATES, N.O.S. (distillates (petroleum), hydrotreated light)
UN number	UN 1268
Packing Group	III
Marine pollutant	Not a pollutant.
Special provisions	In containers of 5 L capacity or less this product is classified as a "Limited Quantity" under IMDG regulations

United States DOT (Classification)	
Class	Class 3: Flammable liquid.
Subsidiary class	-
Proper Shipping Name (United States) DOT	PETROLEUM DISTILLATES, N.O.S. (distillates (petroleum), hydrotreated light)
UN number	UN 1268
Packing Group	III
Special provisions	In containers of 454L or less this product is not classified as a Gangerous Good according to exception 173.150 f(1-2)

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International Air Transport Association TA)	For air shipment classification and associated regulations, please refer to the latest edition of IATA Dangerous Goods Regulations.

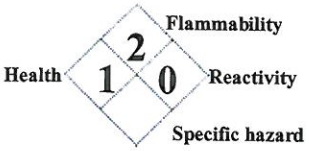
Section 15. Regulatory information

WHMIS Classification (Canada)	Class B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).
Canada Domestic Substances List (DSL) Status	This product and/ or all of its components are on the DSL.
HCS Classification (U.S.A.)	Combustible liquid
U.S.A. Regulatory Lists	This product and/ or all of its components are on the TSCA inventory list.

Hazardous Material Information System (U.S.A.)

Health	1
Flammability	2
Reactivity	0
Personal protection	G

National Fire Protection Association (U.S.A.)



Section 16. Other information

Validated and verified by Compliance and Technical Information Manager Feb. 13 2009 **ph.# 905-791-1788.** **Printed** Feb. 13 2009

Notice to reader

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

MSDS are available at www.recochem.com