

MATERIAL SAFETY DATA SHEET

MSDS File Number: 2183

SECTION I - MATERIAL IDENTIFICATION AND USE		Item #561977.	FLAMMABILITY	2	
Material Name / Product Identifier SOLVENT			REACTIVITY	0	
Manufacturer's Name Imperial Oil - Chemicals Division 111 St. Clair Avenue West Toronto, ON M5W 1K3 (416) 968-4415 (Info)		Supplier's Name Federated Co-operatives Limited P. O. Box 1050; 401 - 22nd Street East Saskatoon, SK S7K 3M9 (306) 244-3447		HEALTH (Acute)	2
Emergency Telephone Number (519) 339-2145 (Emergency)		Emergency Telephone Number (613) 996-6666 (Canutec)		(Chronic)	Y
Chemical Name Aliphatic Hydrocarbon		Chemical Family N.D.		Mfg Reference Number 09074.	
Molecular Weight 142	Trade Name and Synonyms VAR SOL 3139 SOLVENT	Material Use Solvent, fuel, diluent, chemical feedstock.			

SECTION II - HAZARDOUS INGREDIENTS OF MATERIALS

Hazardous Ingredients	Approximate Concentration %	C.A.S. Numbers	Exposure Limits	LD50 / LC 50 (Species and Route)
Stoddard solvent	100%	8052-41-3	(ACGIH) TLV-TWA 100 ppm	(LD50) Oral (rat) >5 g/kg; (LC50) rat >5 g/m3

SECTION III - PHYSICAL DATA FOR MATERIAL

Physical State Liquid	Odour and Appearance Clear, colourless; Mild petroleum odor	Odour Threshold (ppm) N.D.	Specific Gravity 0.79 @ 15.5 C
Vapour Pressure 0.3 kPa @ 20 C	Vapor Density (Air = 1) 5	Evaporation Rate 0.1 (n-butyl acetate=1)	Boiling Point 158-195 C
Solubility in Water (20 C) <0.01% at 25C	% Volatiles 100	pH N/A	Freezing / Pour Point -58 C
		Coefficient of water / oil distribution N.D.	

SECTION IV - FIRE AND EXPLOSION HAZARD OF MATERIAL

Conditions of Flammability Combustible liquid. May form combustible mixtures at or above the flashpoint. Toxic gases will form upon combustion.			
Means of Extinction Use water spray to cool fire exposed surfaces. Use foam, dry chemical or water spray.			
Special Procedures Fire fighters should wear self contained breathing apparatus and full protective clothing. This liquid is volatile and gives off invisible vapours. Either the liquid or vapor may settle in low areas or travel some distance along the ground or surface to ignition sources where they may ignite or explode. Avoid spraying water directly into storage containers due to danger of boilover.			
Flash Point and Method 43 C (Closed Cup)	Upper Explosion Limit 13.3	Lower Explosion Limit 1	Auto Ignition Temperature 229 C
Explosion Data - Sensitivity to Mechanical Impact N.D.		Explosion Data - Sensitivity to Static Discharge Can be ignited by static discharge.	

SECTION V - REACTIVITY DATA

Chemical Stability Yes.	If no, under which conditions? Stable under normal conditions of use and storage.
Incompatibility to other substances Yes.	If so, which ones? Strong oxidizing agents.
Reactivity and under what conditions Hazardous polymerization will not occur.	
Hazardous Decomposition and Combustion Products Combustion products: Fumes, smoke, carbon monoxide.	



Material Name / Product Identifier **SOLVENT**

SECTION VI - TOXICOLOGICAL PROPERTIES OF PRODUCT

Route of Entry **Skin Contact, Eye Contact, Inhalation, Ingestion.**

Effects of Acute Exposure to Product

Eye: Slightly irritating, but will not injure eye tissue. **Skin:** Low toxicity. Irritating. Skin contact may aggravate an existing dermatitis condition. **Ingestion:** Minimal toxicity-small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause mild to severe pulmonary injury and possibly death. **Inhalation:** High vapour/aerosol concentrations are irritating to the eye and respiratory tract and may cause CNS effects including death.

Effects of Chronic Exposure to Product

This product contains ethylbenzene. High exposures to xylenes in some animal studies have been reported to cause health effects on the developing embryo/fetus. These effects were often at levels toxic to the mother.

LD50 of Product See 'Hazardous Ingredients'.	Irritancy of Product Yes.	Exposure Limits of Product A TWA of 400 mg/m³ (73 ppm) based on total hydrocarbon recommended by manufacturer.
LC50 of Product See 'Hazardous Ingredients'.	Sensitization to Product N.D.	Synergistic materials N.D.

OTHER TOXICOLOGICAL EFFECTS: Carcinogenicity, Reproductive Effects.

IARC has classified ethylbenzene as Group 2B (possibly carcinogenic to humans). IARC has classified naphthalene as Group 2B (possibly carcinogenic to humans).

SECTION VII - PREVENTATIVE MEASURES

Personal Protective Equipment

Wear suitable protective clothing to prevent skin contact.

Gloves Chemical resistant.	Eye Protection Safety glasses with side shields.
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Respiratory
Not normally required if used with adequate ventilation. If safe exposure limits are exceeded, wear an appropriate NIOSH approved respirator. If exposure levels are not known, wear an air supplied respirator (SCBA).

Engineering Controls

The use of local exhaust ventilation is recommended to control emissions near the sources. Lab samples should be handled in a fume hood. Provide mechanical ventilation of confined spaces.

Leak and Spill Procedure

Eliminate source of ignition. Prevent additional discharge of material, if safe to do so. Prevent spills from entering sewers, watercourses, or low areas. Contained spilled liquid with sand or earth. Do not use combustible materials such as sawdust. Recover by pumping (use an explosion proof motor or hand pump) or by using suitable absorbent.

Waste Disposal

Dispose of according to all government regulations.

Handling Procedures and Equipment

Keep container closed. Handle and open containers with care. DO NOT handle or store near open flame, heat, or other sources of ignition. Material will accumulate static charges which may cause an electrical spark. Use proper grounding and bonding procedures. DO NOT pressurize, cut, heat or weld containers. Wear respirator if ventilation is not adequate.

Storage Requirements

Store in a cool, well ventilated area away from incompatible materials and ignition sources. Keep container closed when not in use. Protect material from direct sunlight.

Special Shipping Information

TDG: PETROLEUM DISTILLATES, N.O.S., Class 3, UN1268, PGIII. (Containers of 454 litres capacity or less this product exempt from TDG regulations).

SECTION VIII - FIRST AID MEASURES

Skin

Immediately flush with large amounts of water. Use soap if available. Remove contaminated clothing, including shoes after flushing has begun. Seek medical attention if irritations persist.

Eye

Flush eyes with large amounts of water until irritation subsides. If irritation persists, get medical attention.

Inhalation

Use proper respiratory protection to immediately remove the afflicted person from exposure. Administer artificial respiration if breathing has stopped. Keep at rest. Seek prompt medical attention.

Ingestion

DO NOT INDUCE VOMITING! Keep at rest. Seek medical attention.

General Advice

SECTION IX - PREPARATION OF M.S.D.S

W.H.M.I.S. Classification B-3, D-2(B).	N.F.C. Classification
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Sources Used

Imperial Oil (this MSDS is on file and is available for your viewing).

Prepared By CCRL Safety Department	Phone Number (306) 721-0564	Date April 1, 2008
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