

MATERIAL HEALTH & SAFETY DATA SHEET

(Key: > = Greater than; < = Less than)

SECTION 1 - MATERIAL IDENTIFICATION & USE

Material Name: **WATER REPELLENT** - **Code 581, 582, 583, 584**

Supplier: *Captain* PHAB Ltd.

Address: 613 Neal Drive
Peterborough, Ontario.
K9J 6X7

Emergency Telephone #: 705 748-0436

Chemical Name: N/A Molecular Weight: N/A

Chemical Family: Hydrocarbons Trade Name/Synonyms: N/Av

Chemical Formula: Chemical Mixture Material Use: Water/Stain repellent for fabrics.

SECTION 2 - HAZARDOUS INGREDIENTS OF MATERIAL

Hazardous Ingredients	Approximate Concentration %	C.A.S.N.A. or U.N. Numbers	"Exposure Limits"	LD50 / LC50 Specify Species & Route
Isoparaffinic Hydrocarbon	10-30	64742-48-9	TWA 300 (ppm)	Not available
Normal Heptane	30-60	142-82-5	TWA 400 CEIL: 500 (ppm) TWA 1600 CEIL: 2000 (mg/m3)	ORAL (LD50) mg/kg: Acute 15000 (rat)
Dimethyl Methane	5-10	74-98-6	Not available	Not available.
Petroleum Distillate	1-5	8052-41-3	TWA: 100 CEIL: 125(ppm) TWA: 575 CEIL: 720 (mg/m3)	ORAL (LD50) Mg/kg: Acute 8000 (Rat). VAPOR (LC50) ppm Acute 14100 (Rat) (4 hrs)
Trimethyl Methane	10-30	75-28-5	Not Available	Not Available.

SECTION 3 - PHYSICAL DATA FOR MATERIAL

Physical State: liquid Specific Gravity: 0.718 Odour Threshold(ppm): 49 ppm (Heptane) Odour & Appearance: Characteristic ester (slight) - Amber
Vapour Pressure (mm/Hg): 38.52 Vapour Density (Air=1): 3.75 Evaporation Rate: 4.5 (Heptane) Boiling Point (°C): 92 Freezing Point (°C): n/a
Solubility in Water(20°C): not % Volatile (by volume): 99.0 pH: n/a Density (g/ml): 0.718
Coefficient of water/oil distribution: 0

SECTION 4 - FIRE AND EXPLOSION HAZARD OF MATERIAL

Flammability: Yes. Conditions: Flammable aerosol. Highly flammable in open flames, sparks & heat.

Means of Extinction: Use foam, dry chemical, CO2, water fog to extinguish fire.

Special Procedures: Avoid possibility of vapor travel to sources of ignition. To avoid vapor concentration in enclosed areas, use in a well ventilated area.. Pressurized cans will explode in fire. Use water fog. Cool containing vessels with water jet in order to prevent pressure build-up, auto ignition or explosion.

Flash point(°C) & Method: -4 closed cup (tag) Upper explosion limit(% by volume): 7.0 Lower explosion limit (% by volume): 0.6
Auto Ignition Temperature(°C): 210 Flammability Classification: NFC Level 3 Hazardous Combustion Products: CO, CO2, HF & other irritating gases.
Chemical Sensitivity to Impact: yes Rate of Burning: rapid Explosion Power: yes Sensitivity to Static Discharge: yes

SECTION 5 - REACTIVITY DATA

Chemical Stability: Yes Conditions:

Incompatibility to other substances: Substances: Avoid excessive amounts of heat & all possible ignition sources,

Reactivity and under what conditions: With strong oxidizing agents, strong acids and strong alkalis.

Hazardous Decomposition Products: CO, CO2, HF, and other irritating gases. The products of degradation are less toxic than the product itself.

SECTION 6 - TOXICOLOGICAL PROPERTIES OF PRODUCT

Route of Entry: Skin Contact:X..... Skin Absorption:..... Eye Contact: X
Inhalation Acute:.....X..... Inhalation Chronic:..... Ingestion: X

Effects of Acute Exposure to Products: EYES: May cause irritation, redness & tearing. SKIN: Irritation, defatting, drying & cracking of skin. Prolonged and repeated contact may lead to dermatitis. Skin inflammation is characterized by itching, scaling, reddening or occasionally blistering.

INHALATION: Excessive inhalation of vapours may cause nasal and respiratory irritation and CNS effects including dizziness, weakness, fatigue, nausea, headache and possible unconsciousness. INGESTION: May cause stomach irritation, abdominal pain, nausea, vomiting & diarrhea. Aspiration of material into the lungs can cause chemical pneumonitis, which can be fatal. Severe overexposure can result in death. Can be fatal if inhaled or ingested.

Effects of Chronic Exposure to Product: Repeated or prolonged inhalation of vapors may lead to chronic respiratory irritation. Severe and excessive exposure can result in death.

LD50 of Product (Specify Species & Route): >5000 mg/kg Rat oral

LC50 of Product (Specify Species): 2000 ppm - Rat

Carcinogenicity:..... Reproductive effects: Teralogenicity:..... Mutagenicity:..
NO INFORMATION AVAILABLE AND NO ADVERSE EFFECTS ARE ANTICIPATED.

SECTION 7 - PREVENTIVE MEASURES

Personal Protective Equipment in case of large spill: Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient. Consult a specialist BEFORE handling this product.

Engineering Controls: Local exhaust desirable. Electrical/mechanical equipment spark proof.

Small Leak & Spill Procedure: Absorb spills with an inert material and put the spilled material in an appropriate waste disposal.

Large Leak & Spill Procedure: Flammable liquid, insoluble or very slightly soluble in water. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with dry earth, sand or other non-combustible material. DO NOT get water inside container. DO NOT touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all sources of ignition. Call for assistance on disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Waste Disposal: Recycle to process if possible. In accordance with Provincial & Federal regulations. DO not dispose in sewers. When container is empty, press button to release all pressure, then dispose of in garbage can.

Handling Procedures & Equipment: Do not puncture or incinerate containers. Avoid contamination of food.

Storage Requirements: In cool, ventilated area. Do not expose to temps >49°C.

SECTION 8 - FIRST AID MEASURES

Skin: Thoroughly wash exposed area with soap and water. Remove contaminated clothing and launder before reuse. If irritation persists get medical attention.

Eyes: Flush with water, lifting upper and lower lids, then get medical attention. Check for and remove any contact lenses.

Inhalation: If breathing is affected, remove individual to fresh air. If breathing is difficult give oxygen. If breathing stops, give artificial respiration. Keep person warm, get medical attention. DO NOT GIVE STIMULANTS.

Ingestion: DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Have conscious person drink 1 to 2 glass of water to dilute material. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in material. Rinse out mouth and administer more water. Aspiration of material into lungs due to vomiting may cause chemical pneumonitis which can be fatal. Get immediate medical attention.

General advice: Epinephrine or ephedrine may adversely affect the heart with fatal results.

IN CASE OF A DANGEROUS GOODS EMERGENCY CALL CANUTEC'S 24 HOUR NUMBER – 613-996-6666

SECTION 9 - PREPARATION DATE OF M.S.D.S.

Additional information/Comments:

Sources Used: Basic ingredient supplier(s) and packaging agent.

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Date: January 1, 2006

Revision Date: December 1, 2006