

# CONCRETECH

106, 2567 - 192 STREET, SURREY, BC, V3S 3X1

#106 2567 192 Street, Surrey, BC V3S 3X1

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## Liquid Release


### **SECTION 01: PRODUCT IDENTIFICATION**

<b>Product Identifier:</b>	Aliphatic Hydrocarbon Mixture
<b>Product Use</b>	Release Agent for Stamping Concrete
<b>Manufacturer's Name:</b>	Concretech Inc., #106, 2567- 192 Street, Surrey, BC, V3S 3X1, Canada
<b>Supplier's Name</b>	Concretech Inc., #106, 2567- 192 Street, Surrey, BC, V3S 3X1, Canada
<b>Preparation Date of MSDS:</b>	May 28 <sup>th</sup> , 2010
<b>Revision Date of MSDS:</b>	May 28 <sup>th</sup> , 2010
<b>MSDS Prepared By:</b>	Farhad Kazemian
<b>Phone Number of Preparer:</b>	1 604 210 1147
<b>Emergency Phone Number</b>	1 888 503 6780

### **SECTION 02: HAZARDOUS INGREDIENTS**

<b>Ingredients:</b>	<b>% by Weight</b>	<b>CAS#</b>	<b>LD/50</b>	<b>TLV</b>	<b>Comments</b>
Aliphatic Hydrocarbon, Heavy Solvent mixture (Naphtha, hydroteated heavy)	100%	64742-48-9	5000 MG/KG (Oral Rat)	176 ppm	UN 1268

### **SECTION 03: HAZARDOUS IDENTIFICATION**

<b>Route of Entry:</b>	Skin contact , eye contact , inhalation, ingestion
<b>Skin Contact:</b>	Skin contact causes moderate skin irritation. Repeated or prolonged contact may cause defatting and drying of skin which may result in skin irritation and dermatitis.
<b>Eye Contact:</b>	May cause eye irritation. May cause mild discomfort.
<b>Inhalation:</b>	Overexposure by inhalation may cause central nervous system depression which may be characterized by drowsiness, dizziness, confusion, loss of coordination, unconsciousness, and at very high concentrations even death.
<b>Ingestion:</b>	Low 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.
<b>Emergency Overview:</b>	<b>Notes to Physician:</b> Treatment based on sound judgment of physician and individual reactions of patient.
<b>WHMIS Symbols:</b>	 B3
<b>Potential Health Effects:</b>	Product is toxic to blood, kidneys, liver. Repeated or prolonged exposure to the substance can produce target organs damage.

### **SECTION 04: FIRST AID MEASURES**

<b>Skin Contact:</b>	Flush affected skin with gently flowing water and remove contaminated clothing while rinsing. Wash contaminated skin with mild soap and water. Obtain medical attention immediately.
<b>Eye Contact:</b>	Flush eyes with gently flowing water for at least 15 minutes or until the chemical are removed, while holding the eyelids(s) open. Take care not to rinse the contaminated water into the unaffected eye or face. If irritation persists seek immediate medical attention.
<b>Inhalation:</b>	If symptoms are experienced, remove source of contamination or move victim to fresh air. If symptoms persist, <b>get medical attention</b> . If the affected person is not breathing, apply artificial respiration. If breathing is difficult, give oxygen. It is preferred to administer oxygen under a doctor's supervision or advice.
<b>Ingestion:</b>	Seek immediate medical attention. DO NOT induce vomiting. Never give anything by mouth to an unconscious or convulsing person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Administer artificial respiration if breathing has stopped.

### **SECTION 05: FIRE FIGHTING MEASURES**

<b>Flammable (Yes / No )</b>	Yes
<b>Yes-Under What Condition</b>	Any ignition source, sparks, extreme heat, open flames. The product is flammable in the presence of combustible materials.

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<b>Means of Extinction</b>	Foam, dry chemical, carbon dioxide or any Class B extinguishing agent. Water spray may be unsuitable as an extinguishing media, but helpful in keeping adjacent containers cool.
<b>Flash Point (°C / Method)</b>	54C (129.2 F) TCC
<b>Upper Flammable Limit (% by Volume)</b>	5.3
<b>Lower Flammable Limit (% by Volume)</b>	0.7
<b>Autoignation Temperature (°C)</b>	246 C (475 F)
<b>Explosion Data- Sensitivity to Impact</b>	NA
<b>Explosion Data- Sensitivity to Static Discharge</b>	Fixed equipment as well as transfer containers and equipment should be grounded to prevent accumulation of static charge
<b>Hazardous combustion Products</b>	Carbon Monoxide, other toxic vapors
<b>Special Fire Fighting Procedures</b>	Fire fighters should wear full protective clothing, including self-contained breathing equipment. Combustible. May release vapors that form flammable mixtures at or above the flash point. Use water spray to cool fire-exposed containers and structures. Shut off fuel to fire. Avoid spraying water directly into storage containers due to danger of boil over. This liquid is volatile and gives off invisible vapors. 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.
<b>NFPA</b>	Health=1, Fire=2, Instability=0

## **SECTION 06: ACCIDENTAL RELEASE MEASURES**

<b>Leak and Spill Procedures</b>	<p>LAND SPILL: Eliminate source of ignition. Keep public away. Prevent additional discharge of material, if possible to do so without hazard. Prevent spills from entering sewers, watercourses or low areas. Contain 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 a suitable absorbent.</p> <p>WATER SPILL: Eliminate sources of ignition. Warn occupants and shipping in surrounding and downwind areas of fire and explosion hazard and request all to stay clear. If the flash point exceeds the ambient temperature by 10 °C or more, use containment booms and remove from the surface by skimming or with suitable absorbents when conditions permit. If the flash point does not exceed the ambient air temperature by at least 10 °C, use booms as a barrier to protect shorelines and allow material to evaporate. Seek the advice of a specialist before using dispersants.</p>
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## **SECTION 07: HANDLING AND STORAGE**

<b>Handling Procedures and Equipment</b>	For industrial use only. Handle and open containers with care. Avoid contact with eyes, skin and clothing. Do not ingest. Avoid inhalation of chemical. DO NOT handle or store near an open flame, heat, or other sources of ignition. Fixed equipment as well as transfer containers and equipment should be grounded to prevent accumulation of static charge. DO NOT pressurize, cut, heat, or weld containers. Empty containers may contain hazardous product residues. Keep the containers closed when not in use. Protect against physical damage. Use appropriate personnel protective equipment.
<b>Storage requirements</b>	Store in a cool, dry, well ventilated area, away from heat and ignition sources. Place away from incompatible materials. Store in accordance with good industrial practices.

## **SECTION 08: EXPOSURE CONTROL / PERSONAL PROTECTION**

<b>Exposure Limit</b>	<b>ACGIH</b>	TWA is 1200 mg/m <sup>3</sup> (175 ppm) based on total hydrocarbon
	<b>OSHA</b>	NA
	<b>Other</b>	NA
<b>Engineering Controls</b>	<b>General</b>	Electrical and mechanical equipments should be explosion proof.
	<b>Local Exhaust</b>	Use process enclosure, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. Use explosion proof equipment.
	<b>Other</b>	NA
<b>Personal Protective Equipment</b>	<b>Gloves</b>	Appropriate chemical resistant gloves should be worn.
	<b>Respirator</b>	If exposure exceeds occupational exposure limits, use an appropriate NIOSH-

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		approved respirator. Use a NIOSH-approved chemical respirator with organic vapor cartridges or use a NIOSH-approved supplied-air respirator.
	<b>Eye</b>	Chemical safety goggles and/or full face shield to protect eyes and face, if product is handled such that it could be splashed into eyes.
	<b>Footwear</b>	NA
	<b>Clothing</b>	Skin contact should be prevented through the use of suitable protective clothing, gloves and footwear, selected for conditions of use and exposure potential. Consideration must be given both to durability as well as permeation resistance.
	<b>Other</b>	Ensure that eyewash stations and safety showers are proximal to the work-station location.
<b>HMIS Ratings</b>		Health=1, Fire=2, Reactivity=0

## **SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical State</b>	Liquid
<b>Odor and Appearance</b>	Mild petroleum odor, clear liquid
<b>Odor Threshold (ppm)</b>	NA
<b>Specific Gravity (Water=1)</b>	0.762 g/cm <sup>3</sup> @15.6C
<b>Vapor Density</b>	5.6 kpa@ (Air=101 kpa)
<b>Vapor Pressure</b>	0.09 kpa (0.68 mm Hg) @ 20 C (68 F)
<b>Evaporation Rate</b>	0.09 (N-Butyl Acetate = 1) (ASTM D 3539)
<b>Boiling Point °C</b>	182-204 C ( 360-399 F)
<b>Freezing Point °C</b>	<-78 C (<-108 F)
<b>Volatile % By Weight</b>	100
<b>PH</b>	NA
<b>Coefficient of Water / Oil Distribution</b>	NA
<b>Solubility in Water</b>	Almost nil

## **SECTION 10: STABILITY AND REACTIVITY**

<b>Chemical Stability</b>	Stable
<b>Incompatibility With Other Substances</b>	Do not mix with strong oxidizing agents.
<b>Reactivity</b>	Not reactive
<b>Hazardous Decomposition Products</b>	Carbon Dioxide, Carbon Monoxide, Toxic Fumes.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

<b>Effects on Acute Exposure</b>	See Section 3
<b>Effects on Chronic Exposure</b>	See Section 3
<b>Irritancy of Product</b>	This product can cause skin irritation.
<b>Skin Sensitization</b>	NA
<b>Respiratory sensitization</b>	See Section 3
<b>Carcinogenicity</b>	No additional information is available
<b>Other Toxicity Information</b>	Health studies have shown that many petroleum hydrocarbons pose potential human health risks which may vary from person to person. As a precaution, exposure to liquids, vapors, mists or fumes should be minimized.
<b>IARC (1,A2 or 2B)</b>	Not listed
<b>ACGIH (A1, A2 or A3)</b>	See Section 3
<b>Reproductive Toxicity</b>	NA
<b>Teratogenicity</b>	NA
<b>Embryotoxicity</b>	NA
<b>Mutagenicity</b>	NA
<b>Name of Synergistic Products / Effects</b>	NA

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## SECTION 12: ECOLOGICAL INFORMATION

<b>Ecotoxicological Information</b>	This material is expected to be non-hazardous to aquatic species. Material is readily biodegradable. Naphtha (petroleum), Hydrotreated Heavy: LC50 2200mg/L (pimephales promelas)
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## SECTION 13: DISPOSABLE CONSIDERATIONS

<b>Waste Disposal</b>	<b>Disposal of Waste Method:</b> Disposal of all wastes must be done in accordance with municipal, provincial and federal regulations. <b>Contaminated Packaging:</b> Empty containers should be recycled or disposed of through an approved waste management facility.
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## SECTION 14: TRANSPORT INFORMATION

<b>Special Shipping Information</b>	Petroleum Distillates, N.O.S.
<b>PIN</b>	UN 1268, Class 3 Petroleum Products, N.O.S., PG III,
<b>TDG</b>	UN 1268, Class 3 Petroleum Products, N.O.S., PG III,
<b>DOT</b>	UN 1268, Class 3 Petroleum Products, N.O.S., PG III,
<b>ICAO</b>	UN 1268, Class 3 Petroleum Products, N.O.S., PG III,
<b>Note</b>	Not regulated under the Transportation of Dangerous Goods Act when transported by road or rail in packagings or containers of 450 L or less (waste excluded). The product is not air pollutant, but it is Potential Marine Pollutant.

## SECTION 15: REGULATORY INFORMATION

<b>WHMIS Classification</b>	B3, Combustible liquids
<b>OSHA</b>	See Section 3
<b>SARA</b>	Not Listed
<b>TSCA</b>	All components of this product are either on the Toxic Substances Act (TSCA) Inventory List or exempt.
<b>DSL</b>	All components of this product are either on the Domestic Substances List (DSL), the Non-Domestic Substances List (NDSL) or exempt.

## SECTION 16: OTHER INFORMATION

<b>Regulatory Information</b>	This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.
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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. It is provided solely for the customer's consideration, and verification. Hereby specifically claims. It shall not be held liable for any damage resulting from handling or from contact with the above products.

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