

SAFETY DATA SHEET (SDS) / HB-1

Section 1 Product / Company Identification

Product Name HB-1

Product Description Hydrocarbon mixture Manufacturer & Address **DYNA Metro Inc.**

> 37 Creditstone Road Concord, Ontario L4K 1N3

Canada

Manufacturer's Phone Number +1 905.761.3309 Manufacturer's Facsimile +1 905.761.2114 Date Of Issue June 5, 2018 Prepared By

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Emergency Phone Numbers Canutech 1-613-996-6666 (Canada)

> Chemtrec 1-800-424-9300 (U.S.)

Section 2 **Emergency And First Aid**

Emergency Imformation

Rinse the eyes with a gentle stream of water for at least 15 **Eyes**

minutes. Consult a physician immediately.

Skin Remove contaminated clothing. Wash the skin with soap

and water. Decontaminate or discard clothing. If irritation

occurs, seek medical attention.

Inhalation Remove from exposure and provide fresh air. If breathing

has stopped, administer artificial respiration or oxygen as

necessary. Consult a physician immediately.

Ingestion Remove from exposure and provide fresh air. If breathing

has stopped, administer artificial

respiration or oxygen as necessary. Consult a physician im-

mediately.



Section 3 Composition Information

Physical State Clear Liquid

Colour Translucent clear and mobile liquid

Odour and Appearance Hydrocarbon odour
Odour Threshold > .2 - 2.0 ppm
Water Solubility Immiscible

Specific Gravity .95

Boiling Point137 - 143° CFreezing Point< - 50° C</th>Flash Point45° C

Melting PointNot applicablePercent Volatile60 - 80 %Vapour Density (Air = 1)3.7 @ 20 °CVapour Pressure (mm Hg)> 5 @ 20 °CpHNot applicablePartition Coefficient (K o/w)Not applicableEvaporation Rate.72 n-butyl acetate=1

 Viscosity
 20.01 cSt

 VOC
 <395 g/L</td>

Section 4 Hazardous Ingredients

Ingredient Similar to Xylene	CAS # 1330-20-7	OSHA PEL 10 - 15 %	ACGIHTLV-TWA 100 ppm	NOISH REL LD50 > 4300 mgl\kg oral rat LC50 > 6700 ppm\4hr LD50 > 2000 mg mg\kg dermal rabbit
Acrylic Polymer	Trade secret	20 - 35 %		Not available
Acetone	67-64-1	10 - 30 %		Oral LD50 (Rat) = 5800 mg/kg Oral LD50 (Mouse) = 3000 mg/kg Oral LD50 (Rabbit) = 5340 mg/kg Inhalation LC50 (Rat) = 44000 mg/m ³ 4 h
TBAc	540-88-5	10 - 30 %		Oral LD50 (Rat) = 4100 mg/kg Dermal LD50 (Rabbit) > 2 g/kg Inhalation LC50 (Rat) > 2230 mg/m ³ 4 h

Critical Hazards

Single overexposure, above recommended guidelines, may cause: central nervous system depression with signs and symptoms such as headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and unconsciousness. Combustible liquid and vapour. Vapours may ignite explosively.



Section 5 Hazardous Identification

Eye Contact Avoid eye contact. Wear vented goggles.

Skin ContactWear appropriate gloves when handling this material. A pair of

gloves made from the following material(s) are recommended: Polyvinyl alcohol and polyethylene / ethylene vinyl alcohol. Avoid

butyl rubber, nitrile rubber and neoprene rubbers.

Inhalation Avoid breathing of vapours created during the cure cycle. Avoid

breathing of vapours, mist or spray. Avoid breathing of airborne material. Select one of the NIOSH approved respirators based on airborne concentration of contaminants: half-mask organic vapour respirator with dust/mist and fume pre-filter; full-face organic

vapour respirator with dust/mist and fume pre-filter.

Ingestion Not applicable.

Recommended Ventilation

Use with appropriate local exhaust ventilation. Use with function-

ing spray booth or local exhaust. Provide sufficient ventilation to maintain emissions below recommended exposure limits. If exhaust

ventilation is not adequate, use appropriate respiratory protection.

Other Protection An eyebath and safety shower should be available. All food should

be kept in a separate area away from the storage / use location. Eating, drinking and smoking should be prohibited in areas where there is a potential for significant exposure to this material. Wash hands and face thoroughly before eating and drinking or smoking

to remove any residual material.



Section 6 Accidental Release Measures

Personal Precautions Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory pro-

tection, ventilation, and personal protective equipment.

Spill Response Extinguish all ignition sources. Contain spill. Cover with absorbent material. Collect spilled material. Place in

an approved metal container.

Methods of Disposal Incinerate in a permitted hazardous waste incinerator in the presence of a combustible material.

Section 7 Fire And Explosion

Flash Point 45° C (109° F)

Method TAG CC

Auto-ignition Temperature >500°C

Flammable Limits in Air, by % Volume Upper: 10.5

Lower: 0.9

Means of Extinction Carbon dioxide, dry chemical, foam.

Exposure Hazards During Fire Vapours may travel long distances along the ground or floor to an ignition source and flash

back.

Fire Fighting Firefighters should wear positive pressure, self-contained breathing apparatus. Equipment

should be decontaminated after use. Vapours could form an explosive mixture in air.

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face

mask, and protective covering for exposed areas of the head.

Not available

Explosion Data Explosive Power

Rate of Burning Not available

Sensitivity To Static Yes

Sensitivity to Impact No

Unusual Fire And Explosion Hazards This product is considered a combustible liquid under WHMIS criteria and is a fire hazard. It

supports combustion and decomposes under fire conditions. Do not pour, spill, use or store

near heat, spark sources or open flames.

Hazardous Combustion Products Carbon monoxide, carbon dioxide acrylic monomers and toxic gases

Section 8 Stability And Reactivity Data

Stability And Reactivity Stable

Hazardous Polymerization Will not occur

Conditions To Avoid Heat and any ignition source, open flames.

Incompatibility Strong oxidizing agents

Hazardous Decomposition CO, CO2, acylic monomers and traces of incompletely burned hydrocarbons upon combustion.

Reactivity No



Section 9 Precautions For Handling And Storage

Storage Requirements Keep container dry.

Incompatible Materials Store away from acids or oxidizing agents . Store away from heat. Store out of direct

unlight.

Ventilation Keep container in well ventilated area.

Fire Prevention Ground containers securely when transferring contents. Wear low static or properly

grounded shoes. No smoking while handling this material. Avoid shock or friction.

Explosion Prevention Keep away from heat, sparks, open flame, and other sources of ignition. Prevent all

sources of ignition. Vapours may ignite explosively.

Static Prevention Avoid static discharge.

Use Instructions Keep container tightly closed.

Section 10 Toxicological Information

See Section 5 for Hazard Identification

No recognized unusual toxicity to plants and animals.

Conditions Aggravated By Exposure Skin disorders and Chronic Respiratory conditions.

Section 11 Personal Protection / Exposure Control

Engineering Controls General room ventilation plus local exhaust at points of emission to maintain levels of airborne

contaminants below exposure limits.

Respiratory Protection For emergencies and unknown concentrations, use NIOSH/MSHA approved positive pressure

self contained breathing apparatus. Utilize respiratory protective equipment in accordance with

29CFR 1910.134 (Respiratory Protection).

Eye / Face Protection Wear chemical safety goggles plus full face shield to protect against splashing when appropriate

(ANSI Z87.1).

Skin Protection Wear chemical resistant gloves such as North Silver Shield® or Viton®. For limited use, PVC or nitrile

gloves may be worn. Silver Shield is a registered trademark of Siebe North, Inc. Viton is a registered trademark of E. I. DuPont deNemours and Company, Inc. Wear plastic or rubber apron for splash

protection

Other Emergency shower and eyewash facility should be in close proximity (ANSI Z358.1).

Section 12 Disposal

Product As Sold No data available

Product Packaging No data available

Special Instructions Since regulations vary, consult appropriate and applicable regulations or authorities

before disposal.



Section 13 Transportation Data

This product is not hazardous under U.S. DOT or TDG regulations.

Section 14 Other Regulatory Information

Labelling Requirements

UN Number 1268

Class 3 Combustibile Liquid

Packaging Group III

HMIS Rating Health 1

Flammability 2 Reactivity 0

Personal Protection Z (User supplied based on use conditions)

NFPA Health 1

Flammability 2 Reactivity 0

Section 15 Other Information

WHMIS Classification D2B Causes eye, skin and mucous membrane irritation.

B3 Combustible liquid

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

IMO Description Resin Solution

Class 3

UN Number 1268 Packaging Group III

