

HI-TEMP LAB-METAL – HT-14, HT-24

Revision Date: 2009/07/28

Section 1: PRODUCT INFORMATION

Chemical family: Mixture.

Product uses: Chemical.

Manufacturer: Dampney Co Inc.
85 Paris Street
Everett, MA 02149-4411.

Manufacturer emergency phone number: Chemtrec 800-424-9300 (24h).

Information phone number: 617-389-2805

Supplier: Bessey Tools North America Ltd.
1165 Franklin Blvd.
Unit 'G'
Cambridge, ON, N1R 8E1
Tel.: 519-621-7240
Fax: 519-621-3442.

TDG classification: FLAMMABLE LIQUID, N.O.S. (toluene, xylene)
UN1993
Class 3
PG II.



WHMIS classification:

B2, D2A, D2B.



DSL status: The substance(s) listed in section 2 appear on the Domestic Substances List.

Supplier MSDS date: 2007/09/27

Section 2: HAZARDOUS INGREDIENTS

C.A.S.	CONCENTRATION %	Ingredient Name	T.L.V.	LD/50	LC/50
100-41-4	3.10	ETHYLBENZENE	100 PPM	3500 MG/KG RAT ORAL 17800 UL/KG RABBIT DERMAL >5000 MG/KG RABBIT DERMAL	55,000 MG/M3/2H RAT INHALATION 35,500 MG/M3/2H MOUSE INHALATION
108-88-3	7.07	TOLUENE	20 PPM	636 MG/KG RAT ORAL 14,100 UL/KG RABBIT DERMAL	49,000 MG/M3/4 HOURS RAT INHALATION 400 PPM/24 HOURS MOUSE INHALATION 10,000 MG/M3 MOUSE INHALATION 30,000 MG/M3/2H MOUSE INHALATION
1330-20-7	5.53	XYLENE	100 PPM	4300 MG/KG RAT ORAL 2119 MG/KG MOUSE ORAL >1700 MG/KG RABBIT DERMAL	5000 PPM/4H RAT INHALATION
7429-90-5	42.17	ALUMINUM, ELEMENTAL	5 MG/M3	NOT AVAILABLE	NOT AVAILABLE
7440-66-6	8.95	ZINC	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE
78-93-3	3.15	METHYL ETHYL KETONE (MEK)	200 PPM	2737 MG/KG RAT ORAL 3000 MG/KG MOUSE ORAL	23,500 MG/M3/8H RAT INHALATION 32,000 MG/M3/4H MOUSE INHALATION

Section 2A: ADDITIONAL INGREDIENT INFORMATION

Note: CAS# 7440-66-6: TLV 10 mg/m³ (supplier).
CAS# 78-93-3: LD50 5000 mg/kg rabbit dermal.

Section 3: PHYSICAL DATA

Physical state: Liquid.

Appearance & odor: Solvent odour.
Gray paste.

Odor threshold (ppm): Not available.

Vapour pressure (mmHg): Not available.

Vapour density (air=1): Heavier than air.

Volatiles (%)

By volume: 24.09

By weight: 10.95

Evaporation rate Faster.
(butyl acetate = 1): 0.242

Boiling point (°C): 230-279F (110-137.2C)

pH: Not applicable.

Specific gravity @ 20 °C: 1.85472

Solubility in water (%): Not available.

Coefficient of water/oil dist.: Not available.

Melting point (°C): Not applicable.

VOC: 1.82 lbs/gal

Section 4: FIRE & EXPLOSION DATA

Flammability: Flammable.

Conditions of flammability: Vapours may travel to a source of ignition and flash back.
Excessive heat, sparks and open flames.

Extinguishing media: Carbon dioxide, dry chemical, foam.
Alcohol foam.
Water may be ineffective but may be used to cool containers.

Special procedures: Self-contained breathing apparatus required.
Firefighters should wear the usual protective gear.
Use water fog to cool containers exposed to fire.

Auto-ignition temperature (°C): Not available.

Flash point (°C), method: 7.2 - 26.6 (45°F - 80°F)

**Lower flammability
limit (% vol):** 1

**Upper flammability
limit (% vol):** 7.4

Explosion Data

Sensitivity to static discharge: Take precautionary measures against static discharge.

Sensitivity to mechanical impact: Protect against physical damage.

Hazardous combustion products: Not available.

Explosive power: Container explosion may occur when heated.

Section 5: REACTIVITY DATA

Chemical stability: Stable under normal conditions.

Conditions of instability: Heat and open flames.

Hazardous polymerization: Will not occur.

Incompatible substances: Acids and bases.
Strong oxidizing agents.

**Hazardous decomposition
products:** Carbon monoxide.
Unidentified organic compounds.

Section 6: TOXICOLOGICAL PROPERTIES

Route of entry: Inhalation and skin.

Effects of acute exposure

Eye contact: May cause severe irritation.
May cause redness and tearing.
May cause blurred vision.

Skin contact: Prolonged exposure may result in moderate irritation.
Prolonged use may cause defatting resulting in dermatitis.

Inhalation: May cause headache, dizziness and nausea.
High concentrations may cause unconsciousness, central nervous system depression, and may be fatal.
May cause nasal and respiratory irritation.
May cause weakness.

Ingestion: May cause gastro-intestinal irritation.
May cause nausea, vomiting and diarrhea.
Aspiration of liquid into lungs may cause chemical pneumonitis which can be fatal.

Effects of chronic exposure: May cause cardiac abnormalities.
Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.
May cause lung damage.
May cause damage to the spleen.
Pre-existing eye and skin disorders may be aggravated by exposure to this product.
May cause kidney effects.
May cause anemia.
May cause liver effects.
Pre-existing liver and kidney conditions may be aggravated.

LD50 of product, species & route: Not available for mixture, see the ingredients section.

LC50 of product, species & route: Not available for mixture, see the ingredients section.

Exposure limit of material: Not available for mixture, see the ingredients section.

Sensitization to product: Not available.

Carcinogenic effects: Ethylbenzene is classified as a carcinogen by IARC (group 2B).

Reproductive effects: May affect reproductive system.

Teratogenicity: Not available.

Mutagenicity: Not available.

Synergistic materials: Not available.

Section 7: PREVENTATIVE MEASURES

Precautionary Measures

Gloves/Type:



Chemical resistant gloves.

Respiratory/Type:



If exposure limit is exceeded, wear a NIOSH approved respirator.
Air-line respirator in confined areas.

Eye/Type: Do not wear contact lenses.



Splash proof chemical safety goggles or face shield.

Footwear/Type: Safety shoes per local regulations.

Clothing/Type: As required to prevent skin contact.
Chemical resistant clothing.

Other/Type: Eye wash facility should be in close proximity.
Emergency shower should be in close proximity.

Ventilation requirements: Provide sufficient mechanical ventilation to maintain exposure below TLV.

Leak/Spill: Eliminate all sources of ignition.
Absorb with inert material.
Prevent entry into drains, sewers, and other waterways.
Ventilate area.
Wear appropriate protective equipment.
Ground handling equipment.
Remove to non-leaking containers for disposal.
Notify the appropriate authorities as required.

Waste disposal: Dispose of all waste in accordance with Local, State, and Federal regulations.

Handling procedures and equipment: Protect against physical damage.
Keep away from heat, sparks, and open flame.
Use adequate ventilation.
Wash thoroughly after using, particularly before eating or smoking.
Wear personal protective equipment appropriate to task.
Use proper grounding procedures.
Avoid contact with skin, eyes and clothing.
Do not smoke in handling or storage area.

Do not take internally.
Do not wear contact lenses.
Laundry contaminated clothing prior to reuse.
Avoid breathing vapors/mists and dust.

Storage requirements: Store in a cool and well ventilated area.
Store away from incompatible materials.
Keep containers closed when not in use.
Keep away from ignition sources.
Store below 100F (38C).

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UN1993
Class 3
PG II.



Special shipping information: See transportation information.

Section 8: FIRST AID MEASURES

- Skin contact:** Remove contaminated clothing.
Wash thoroughly with soap and water.
Seek medical attention if irritation persists.
- Eye contact:** Immediately flush eyes with running water for a minimum of 15 minutes. Hold eyelids open during flushing. Obtain medical attention immediately.
- Inhalation:** Remove victim to fresh air. If breathing is difficult administer oxygen. If not breathing, have qualified person give artificial respiration. Obtain medical attention.
- Ingestion:** Obtain immediate medical attention.
Never give anything by mouth to an unconscious person.
Do not induce vomiting, unless directed to do so by a physician.
- Additional information:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any inaccuracies.

Section 9: ADDITIONAL INFORMATION

General note: This material safety data sheet was prepared from information obtained from various sources, including product suppliers and the Canadian Center for Occupational Health and Safety.

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