

ALVIN HI-TEMP LAB-METAL

Revision Date: 2015/12/14

Section 1: PRODUCT INFORMATION

Chemical family: Mixture.

Product uses: Metal patching compound.

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

Supplier: Bessey Tools North America
1555 Bishop Street, Unit #6
Cambridge, Ontario
N1R 7J4
Tel: 519-621-7240, Fax: 519-621-3442.

TDG classification:
PAINT
UN1263
Class 3
PG II.



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

Section 2: HAZARDOUS INGREDIENTS

C.A.S.	CONCENTRATION %	Ingredient Name	T.L.V.	LD/50	LC/50
100-41-4	1-3	ETHYLBENZENE	20 PPM	3500 MG/KG RAT ORAL >5000 MG/KG RABBIT DERMAL	4000 PPM/4H RABBIT INHALATION 55,000 MG/M3/2H RAT INHALATION 35,500 MG/M3/2H MOUSE INHALATION
108-88-3	1-5	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	5-10	XYLENE	100 PPM	4300 MG/KG RAT ORAL 2119 MG/KG MOUSE ORAL >1700 MG/KG RABBIT DERMAL	5000 PPM/4 HR RAT INHALATION
7429-90-5	40-50	ALUMINUM, ELEMENTAL	1 MG/M3	NOT AVAILABLE	NOT AVAILABLE
7440-66-6	5-10	ZINC	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE
78-93-3	1-5	METHYL ETHYL KETONE (MEK)	200 PPM	2737 MG/KG RAT ORAL 3000 MG/KG MOUSE ORAL 6480 MG/KG RABBIT DERMAL	23,500 MG/M3/8H RAT INHALATION 32 MG/M3/4H MOUSE INHALATION

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): > 1.

Volatiles (%)

By volume: Not available.

By weight: 10.95

Evaporation rate Faster.
(butyl acetate = 1): 0.195

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

pH: Not available.

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.
Heat, sparks and open flames.

Extinguishing media: Carbon dioxide, dry chemical, foam.
Alcohol foam.
Do not use hard water stream.

Special procedures: Self-contained breathing apparatus required.
Firefighters should wear the usual protective gear.
Prevent from entering sewers or waterways.
Use water spray to cool fire exposed containers.

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

Flash point (°C), method: Closed Cup.
7.2 – 26.6 (45°F – 80°F)

Lower flammability limit (% vol): Not available.

Upper flammability limit (% vol): Not available.

Explosion Data

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

Sensitivity to mechanical impact: Protect against physical damage.

Hazardous combustion products: Oxides of carbon (CO, CO₂).
Other unidentified organic compounds.

Explosive power: Container explosion may occur when heated.

Section 5: REACTIVITY DATA

Chemical stability: Stable under normal conditions.

Conditions of instability: Heat, sparks & open flame.
Contact with incompatible substances.
Direct sunlight.
Poor ventilation.

Hazardous polymerization: Will not occur.

Incompatible substances: Acids and bases.
Strong oxidizing agents.

Hazardous decomposition products: See hazardous combustion products.

Section 6: TOXICOLOGICAL PROPERTIES

Route of entry: Skin contact, eye contact, inhalation and ingestion.

Effects of acute exposure

Eye contact: May cause conjunctivitis.
May cause pain.
May cause redness and tearing.
Causes serious eye irritation.

Skin contact: May cause itching.
May cause redness.
May cause swelling.
May cause cracking.
May cause edema.
May cause drying, defatting.
Causes skin irritation.

Inhalation: May cause respiratory irritation.
May cause headache, dizziness and nausea.
May cause breathing difficulty.
May cause central nervous system depression.
May cause soreness of the throat.
May cause coughing.
May cause runny nose.
May cause shortness of breath.

Ingestion: May cause gastro-intestinal irritation.
May cause nausea, vomiting and diarrhea.
May cause dizziness and headache.

Effects of chronic exposure: May affect the central nervous system.
Pre-existing eye, skin and respiratory disorders may be aggravated.
Pre-existing central nervous system disorders may be aggravated by exposure.

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 expected to be a sensitizer.

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

Reproductive effects: Toluene may cause reproductive effects.

Teratogenicity: Not available.

Mutagenicity: None known.

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.

Eye/Type: Chemical safety goggles.

Footwear/Type:



Chemically resistant safety shoes or boots.

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: Explosion proof ventilation should be used.
Local exhaust and/or general ventilation.

Leak/Spill: Eliminate all sources of ignition.
Absorb with inert material.
Dike area to prevent spreading.
Evacuate all non-essential personnel.
Prevent entry into drains, sewers, and other waterways.
Ventilate area.
Wear appropriate protective equipment.
Ground handling equipment.
Use non-sparking tools.
Stay upwind.
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.
Equipment must be grounded to prevent static sparks.
Use non-sparking tools.
Use proper grounding procedures.
Avoid contact with skin, eyes and clothing.
Do not eat, drink or smoke in handling area.

Launder 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.
Empty containers retain hazardous product residues, both liquid and vapors.
No smoking.
Keep locked up.
Inspect periodically for damage.
Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel.

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Special shipping information: See transportation information.

Section 8: FIRST AID MEASURES

Skin contact: Immediately flush skin with plenty of water for 15 minutes while removing contaminated clothing and shoes.
Seek immediate medical attention.

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.
Do not induce vomiting.
If vomiting occurs, keep head below hips.
Never give anything by mouth to an unconscious person.
Rinse mouth with water.

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.

Note to physician: Treat symptomatically.