

Hi Temp Metalex

SDS Preparation Date (mm/dd/yyyy): 12/04/2015

Page 1 of 13

SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product identifier used on the label

: **Hi Temp Metalex**

Product Code(s) : 80-869

Recommended use of the chemical and restrictions on use

: Metal Patching Compound
Use pattern: Professional use only
Recommended restrictions: None known.

Chemical family : Mixture

Name, address, and telephone number
of the supplier:

Kimball Midwest

4800 Roberts Road
Columbus, OH 43228

Supplier's Telephone # : (800) 233-1294

24 Hr. Emergency Tel # : Chemtrec 1-800-424-9300

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Gray paste. Solvent odor.

Most important hazards: This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Classification:

Flammable Liquids - Category 2
Skin Irritation - Category 2
Serious eye damage/eye irritation - Category 2A
Reproductive Toxicity - Category 2
Carcinogen - Category 2
Specific Target Organ Toxicity, Single Exposure - Category 3 narcotic effects
Specific Target Organ Toxicity, Single Exposure -Category 3 (respiratory)
Specific Target Organ Toxicity, Repeated Exposure - Category 2 (CNS)

Label elements

Hazard pictogram(s)



Signal Word

DANGER!

Hi Temp Metalex

SDS Preparation Date (mm/dd/yyyy): 12/04/2015

Page 2 of 13

SAFETY DATA SHEET

Hazard statement(s)

Highly flammable liquid and vapour.
Causes skin irritation.
Causes serious eye irritation.
Suspected of damaging the unborn child.
Suspected of causing cancer.
May cause drowsiness or dizziness.
May cause respiratory irritation.
May cause damage to organs through prolonged or repeated exposure.

Precautionary statement(s)

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat, open flames and hot surfaces. - No smoking.
Keep container tightly closed.
Ground/Bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Do not breathe mist or vapor.
Wash hands thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/clothing and eye/face protection.

If exposed or concerned: Get medical attention/advice.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
Wash contaminated clothing before reuse.
If skin irritation occurs, get medical advice/attention.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
Call a POISON CENTER or doctor/physician if you feel unwell.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
If eye irritation persists: Get medical advice/attention.
In case of fire: Use water fog, dry chemical, CO2 or 'alcohol' foam for extinction.

Store locked up.
Store in a well-ventilated place. Keep container tightly closed.
Keep cool.

Dispose of contents/container in accordance with local regulation.

Other hazards

No OSHA defined hazard classes.
Other hazards which do not result in classification:
Burning produces obnoxious and toxic fumes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Environmental precautions: Avoid release to the environment. See ECOLOGICAL INFORMATION, Section 12.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

| <u>Chemical name</u> | <u>Common name and synonyms</u> | <u>CAS #</u> | <u>Concentration</u> |
|----------------------|---------------------------------|--------------|----------------------|
| Aluminum powder | Alumina | 7429-90-5 | 40.0 - 50.0 |
| Methyl ethyl ketone | Butanone Methyl acetone | 78-93-3 | 1.0 - 5.0 |

Hi Temp Metalex

SDS Preparation Date (mm/dd/yyyy): 12/04/2015

Page 3 of 13

SAFETY DATA SHEET

| | | | |
|---------------------|---|-----------|-------------------|
| Toluene | Methylbenzene Phenylmethane | 108-88-3 | 1.0 - 5.0 |
| Zinc dust | Elemental zinc | 7440-66-6 | 5.0 - 10.0 |
| Xylene | Dimethylbenzene Methyltoluene Xylol | 1330-20-7 | 5.0 - 10.0 |
| Ethylbenzene | Ethylbenzol Phenylethane | 100-41-4 | 1.0 - 3.0 |

The exact concentrations of the above listed chemicals are being withheld as a trade secret as allowed by 29CFR1910.1200.

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

- Ingestion* : Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration.
- Inhalation* : If inhaled: Remove person to fresh air and keep comfortable for breathing. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Call a POISON CENTRE or doctor/physician if you feel unwell.
- Skin contact* : Immediately flush with plenty of water, while removing contaminated clothing. Immediately call a POISON CENTER or doctor/physician. Wash contaminated clothing before reuse.
- Eye contact* : For eye contact, flush with running water for at least 15 minutes. If eye irritation persists: get medical advice/attention.

Most important symptoms and effects, both acute and delayed

- : Causes skin irritation. Redness, swelling, itching and dryness. May cause respiratory irritation. May cause coughing and breathing difficulties. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause headache, nausea, dizziness and other symptoms of central nervous system depression. Causes serious eye irritation. Symptoms may include redness, pain, tearing and conjunctivitis. Suspected of damaging fertility or the unborn child. May cause damage to the central nervous system through prolonged or repeated exposure if inhaled. Suspected of causing cancer.

Indication of any immediate medical attention and special treatment needed

- : Treat symptomatically. This product is a CNS depressant.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

- Suitable extinguishing media* : Carbon dioxide (CO₂); Dry chemical; Alcohol resistant foam; Water fog.
- Unsuitable extinguishing media* : Do not use a solid water stream as it may scatter and spread fire.

Special hazards arising from the substance or mixture / Conditions of flammability

- : Highly flammable liquid and vapour. Vapours may ignite explosively. Vapours are heavier than air and may spread along floors. Static discharge, impact, friction, and heat may ignite exposed chemical material.

Flammability classification (OSHA 29 CFR 1910.106)

- : Flammable Liquids - Category 2

Hazardous combustion products

- : Carbon dioxide, carbon monoxide and other unidentified organic compounds.

Special protective equipment and precautions for firefighters

Hi Temp Metalex

SDS Preparation Date (mm/dd/yyyy): 12/04/2015

Page 4 of 13

SAFETY DATA SHEET

Protective equipment for fire-fighters

- : Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.

Special fire-fighting procedures

- : Do not breathe fumes or vapours. Move containers from fire area if safe to do so. Cool containers exposed to heat with water spray and remove container, if no risk is involved. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

- : All persons dealing with the clean-up should wear the appropriate chemically protective equipment. Keep people away from and upwind of spill/leak. Restrict access to area until completion of clean-up. Refer to protective measures listed in sections 7 and 8.

Environmental precautions

- : Do not allow material to contaminate ground water system. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.

Methods and material for containment and cleaning up

- : Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Use only non-sparking tools and equipment in the clean-up process. Avoid breathing mist or vapours. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Contact the proper local authorities. Refer to Section 13 for disposal of contaminated material.

Special spill response procedures

- : In case of a transportation accident, contact CHEMTREC at 1-800-424-9300 or International at 1-703-527-3887. EPA/CERCLA Reportable quantity (RQ): Xylene (100 lbs / 45.4 kg); Ethylbenzene / Toluene; Zinc (1000 lbs / 454 kg) ; Methyl ethyl ketone (5000 lbs / 2270 kg)

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

- : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/clothing and eye/face protection. Use only in well-ventilated areas. Do not breathe mist or vapor. Avoid contact with skin, eyes and clothing. Keep container tightly closed. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Keep away from flames and hot surfaces. - No smoking. Use only non-sparking tools. Take precautionary measures against static discharges. Ground all equipment during handling.

Conditions for safe storage

- : Keep container tightly closed. Store in cool/well-ventilated place. Store locked up. Keep cool. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking. Empty containers may contain hazardous residues.

Incompatible materials

- : Strong oxidizers, acids and bases.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Hi Temp Metalex

SDS Preparation Date (mm/dd/yyyy): 12/04/2015

Page 5 of 13

SAFETY DATA SHEET

Exposure Limits:

| <u>Chemical Name</u> | <u>ACGIH TLV</u> | | <u>OSHA PEL</u> | |
|----------------------|----------------------------------|-------------|---|-------------------|
| | <u>TWA</u> | <u>STEL</u> | <u>PEL</u> | <u>STEL</u> |
| Aluminum powder | 1 mg/m ³ (respirable) | N/Av | 15 mg/m ³ (total dust); 5 mg/m ³ (respirable) | N/Av |
| Methyl ethyl ketone | 200 ppm | 300 ppm | 200 ppm (590 mg/m ³) | N/Av |
| Toluene | 20 ppm | N/Av | 200 ppm | 300 ppm (Ceiling) |
| Zinc dust | N/Av | N/Av | N/Av | N/Av |
| Xylene | 100 ppm | 150 ppm | 100 ppm (435 mg/m ³) | N/Av |
| Ethylbenzene | 20 ppm | N/Av | 100 ppm (435 mg/m ³) | N/Av |

Exposure controls

Ventilation and engineering measures

- : Use only in well-ventilated areas. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. Use explosion-proof equipment. In case of insufficient ventilation wear suitable respiratory equipment.

Respiratory protection

- : If airborne concentrations are above the permissible exposure limit or are not known, use NIOSH-approved respirators. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02. Advice should be sought from respiratory protection specialists.

Skin protection

- : Wear protective gloves/clothing. Where extensive exposure to product is possible, use resistant coveralls, apron and boots to prevent contact. Advice should be sought from glove suppliers.

Eye / face protection

- : Wear chemical goggles.

Other protective equipment

- : Ensure that eyewash stations and safety showers are close to the workstation location. Other equipment may be required depending on workplace standards.

General hygiene considerations

- : Do not breathe mist or vapor. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Do not take contaminated clothing home. Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance** : Gray paste.
- Odour** : Solvent odor.
- Odour threshold** : Not available.
- pH** : No information available.
- Melting/Freezing point** : Not available.
- Initial boiling point and boiling range** : 110 - 137.22°C (230-279°F)
- Flash point** : 7.2-26.6°C (45-80°F)
- Flashpoint(Method)** : Closed cup
- Evaporation rate (BuAe = 1)** : 0.195 times faster

Hi Temp Metalex

SDS Preparation Date (mm/dd/yyyy): 12/04/2015

Page 6 of 13

SAFETY DATA SHEET

Flammability (solid, gas) : Not applicable.
Lower flammable limit (% by vol.) : Not available.
Upper flammable limit (% by vol.) : Not available.
Oxidizing properties : None known.
Explosive properties : Not explosive.
Vapour pressure : Not available.
Vapour density : > 1
Relative density / Specific gravity : 1.85472
Solubility in water : N/Ap
Other solubility(ies) : N/Ap
Partition coefficient: n-octanol/water or Coefficient of water/oil distribution : Not available.
Auto-ignition temperature : Not available.
Decomposition temperature : No information available.
Viscosity : 2500 cSt at 40°C
Volatiles (% by weight) : 10.95%
Volatile organic Compounds (VOC's) : 1.82 lbs/gal
Absolute pressure of container : Not applicable.
Flame projection length : Not applicable.
Other physical/chemical comments : None known or reported by the manufacturer.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not normally reactive.
Chemical stability : Stable under normal conditions.
Possibility of hazardous reactions : Hazardous polymerization does not occur.
Conditions to avoid : Open flames, sparks, high heat, direct sunlight, and close proximity to incompatible substances. Do not use in areas without adequate ventilation.
Incompatible materials : Strong oxidizers, acids and bases.
Hazardous decomposition products : See Section 5 (Fire Fighting Measures).

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Routes of entry inhalation : YES
Routes of entry skin & eye : YES
Routes of entry Ingestion : YES
Routes of exposure skin absorption : YES

Hi Temp Metalex

SDS Preparation Date (mm/dd/yyyy): 12/04/2015

Page 7 of 13

SAFETY DATA SHEET

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

- : May cause respiratory tract irritation. Symptoms may include sore throat, running nose and shortness of breath. May cause headache, nausea, dizziness and other symptoms of central nervous system depression.

Sign and symptoms ingestion

- : Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Sign and symptoms skin

- : Causes skin irritation. Symptoms may include redness, edema, drying defatting and cracking of the skin.

Sign and symptoms eyes

- : Causes serious eye irritation. Symptoms may include redness, pain, tearing and conjunctivitis.

Potential Chronic Health Effects

- : Prolonged exposure can cause central nervous system effects.

Mutagenicity

- : Not expected to be mutagenic in humans.

Carcinogenicity

- : This material is not classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification: Carcinogenicity- Category 2 Suspected of causing cancer. Contains Ethylbenzene. Ethylbenzene is classified as carcinogenic by IARC (Group 2B) and ACGIH (Category A3).

Reproductive effects & Teratogenicity

- : This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification: Reproductive Toxicity - Category 2 Suspected of damaging the unborn child. Contains Toluene. Toluene may cause fetotoxic effects at doses which are not maternally toxic, based on animal data.

Sensitization to material

- : Not expected to be a skin or respiratory sensitizer.

Specific target organ effects

- : This material is classified as hazardous under OSHA regulations (29CFR 1910.1200) (Hazcom 2012). Classification:
Specific target organ toxicity, single exposure - Category 3.
May cause drowsiness or dizziness.
May cause respiratory irritation.

Specific target organ toxicity (STOT), repeated exposure - Category 2 May cause damage to the central nervous system through prolonged or repeated exposure if inhaled.

Medical conditions aggravated by overexposure

- : Pre-existing skin, eye, respiratory and central nervous system disorders.

Synergistic materials

- : No information available.

Toxicological data

- : There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data. See below for toxicological data on the substance.

Hi Temp Metalex

SDS Preparation Date (mm/dd/yyyy): 12/04/2015

Page 8 of 13

SAFETY DATA SHEET

| <u>Chemical name</u> | <u>LC₅₀(4hr)</u> | <u>LD₅₀</u> | |
|----------------------|----------------------------------|-----------------------------|-------------------------|
| | <u>inh, rat</u> | <u>(Oral, rat)</u> | <u>(Rabbit, dermal)</u> |
| Aluminum powder | > 2.3 mg/L (dust) (No mortality) | > 2000 mg/kg (No mortality) | N/Av |
| Methyl ethyl ketone | 11 300 ppm (33.3 mg/L (vapour) | 2740 mg/kg | 6480 mg/kg |
| Toluene | 7585 ppm (28.1 mg/L) (vapour) | 5580 mg/kg | 12 125 mg/kg |
| Zinc dust | > 5.4 mg/L (dust) (No mortality) | > 2000 mg/kg (No mortality) | n/av |
| Xylene | 6350 ppm (27.6 mg/L) (vapours) | 3253 mg/kg | 12 180 mg/kg |
| Ethylbenzene | 4000 ppm (17.4 mg/L) (vapour) | 3500 mg/kg | 15 380 mg/kg |

Other important toxicological hazards

: None reported by the manufacturer.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity : Do not allow material to contaminate ground water system. See data for individual ingredient ecotoxicity data.

Ecotoxicity data:

| <u>Ingredients</u> | <u>CAS No</u> | <u>Toxicity to Fish</u> | | |
|---------------------|---------------|----------------------------|----------------------|-----------------|
| | | <u>LC50 / 96h</u> | <u>NOEC / 21 day</u> | <u>M Factor</u> |
| Aluminum powder | 7429-90-5 | N/Av | N/Av | None. |
| Methyl ethyl ketone | 78-93-3 | 2993 mg/L (Fathead minnow) | N/Av | None. |
| Toluene | 108-88-3 | 5.4 mg/L (pink salmon) | 1.4 - 4.0 mg/L | None. |
| Zinc dust | 7440-66-6 | N/Av | N/Av | None. |
| Xylene | 1330-20-7 | 8.2 mg/L (Rainbow trout) | N/Av | None. |
| Ethylbenzene | 100-41-4 | 4.2 mg/L (Rainbow trout) | 1.13 mg/L/30 days | None. |

| <u>Ingredients</u> | <u>CAS No</u> | <u>Toxicity to Daphnia</u> | | |
|---------------------|---------------|-------------------------------------|----------------------|-----------------|
| | | <u>EC50 / 48h</u> | <u>NOEC / 21 day</u> | <u>M Factor</u> |
| Aluminum powder | 7429-90-5 | N/Av | N/Av | None. |
| Methyl ethyl ketone | 78-93-3 | 308 mg/L (Daphnia magna) | N/Av | None. |
| Toluene | 108-88-3 | 3.78 mg/L Ceriodaphnia (water flea) | 0.53 - 1 mg/L | None. |
| Zinc dust | 7440-66-6 | 0.07 mg/L (Daphnia magna) | 0.12 mg/L/29-day | 10 |
| Xylene | 1330-20-7 | 3.2 - 9.56 mg/L (Daphnia magna) | N/Av | None. |
| Ethylbenzene | 100-41-4 | 1.81 mg/L (Daphnia magna) | N/Av | None. |

Hi Temp Metalex

SDS Preparation Date (mm/dd/yyyy): 12/04/2015

Page 9 of 13

SAFETY DATA SHEET

| <u>Ingredients</u> | CAS No | Toxicity to Algae | | |
|---------------------|-----------|-----------------------------------|----------------------------|----------|
| | | EC50 / 96h or 72h | NOEC / 96h or 72h | M Factor |
| Aluminum powder | 7429-90-5 | N/Av | N/Av | None. |
| Methyl ethyl ketone | 78-93-3 | 1972 mg/L/72hr (Green algae) | 1240 mg/L/96hr | None. |
| Toluene | 108-88-3 | N/Av | 10 mg/L/72hr (Green algae) | None. |
| Zinc dust | 7440-66-6 | 0.15 mg/L/72hr (Green algae) | 0.05 mg/L/72hr | 1 |
| Xylene | 1330-20-7 | 3.2 - 4.9 mg/L/72hr (Green algae) | N/Av | None. |
| Ethylbenzene | 100-41-4 | 3.6 mg/L/96hr (Green algae) | 3.4 mg/L/96hr | None. |

Persistence and degradability

: No data is available on the product itself.

Bioaccumulation potential

: No data is available on the product itself.

| <u>Components</u> | <u>Partition coefficient n-octanol/ater (log Kow)</u> | <u>Bioconcentration factor (BCF)</u> |
|-----------------------------------|---|--------------------------------------|
| Aluminum powder (CAS 7429-90-5) | N/Av | N/Av |
| Methyl ethyl ketone (CAS 78-93-3) | 0.29 | 3 |
| Toluene (CAS 108-88-3) | 2.73 | 90 |
| Zinc dust (CAS 7440-66-6) | N/Av | N/Av |
| Xylene (CAS 1330-20-7) | 3.12 - 3.2 | 0.6 - 15 |
| Ethylbenzene (CAS 100-41-4) | 3.15 | 15 species: fish |

Mobility in soil : No data is available on the product itself.

Other Adverse Environmental effects

: None known.

SECTION 13. DISPOSAL CONSIDERATIONS

Handling for Disposal : Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8.

Methods of Disposal : Dispose in accordance with all applicable federal, state, provincial and local regulations.

RCRA : If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

SECTION 14. TRANSPORTATION INFORMATION





| Regulatory Information | UN Number | UN proper shipping name | Transport hazard class(es) | Packing Group | Label |
|------------------------|-----------|-------------------------|----------------------------|---------------|-------|
|------------------------|-----------|-------------------------|----------------------------|---------------|-------|

Hi Temp Metalex

SDS Preparation Date (mm/dd/yyyy): 12/04/2015

Page 10 of 13

SAFETY DATA SHEET

| | | | | | |
|---|--|-------|---|----|--|
| 49CFR/DOT | UN1263 | Paint | 3 | II |  |
| 49CFR/DOT Additional information | Special provision 149 allows this product to be shipped as a Limited Quantity. Inner package size must not exceed 5 liters (1.3 gallons) with a 30 kg gross per package. | | | | |
| TDG | UN1263 | PAINT | 3 | II |  |
| TDG Additional information | May be shipped as Limited Quantity when transported in containers no larger than 5.0 Litres; in packages not exceeding 30 kg gross mass. | | | | |
| IMDG | UN1263 | Paint | 3 | II |  |
| IMDG Additional information | May be shipped as Limited Quantity when transported in containers no larger than 5.0 Litres; in packages not exceeding 30 kg gross mass. | | | | |
| ICAO/IATA | UN1263 | Paint | 3 | II |  |
| ICAO/IATA Additional information | Refer to the appropriate Packing Instruction, prior to shipping this material. | | | | |

Special precautions for user : Appropriate advice on safety must accompany the package.

Environmental hazards : See ECOLOGICAL INFORMATION, Section 12.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: This information is not available.

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

Components listed below are present on the following U.S. Federal chemical lists:

| <u>Ingredients</u> | CAS # | TSCA Inventory | CERCLA Reportable Quantity(RQ) (40 CFR 117.302): | SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355: | SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical | |
|---------------------|-----------|-------------------|---|---|--|-----------------------------|
| | | | | | Toxic Chemical | de minimus Concentration |
| Aluminum powder | 7429-90-5 | Yes | None. | None. | Yes | 1% |
| Methyl ethyl ketone | 78-93-3 | Yes | 5000 lb/ 2270 kg | None. | No | N/Ap |
| Toluene | 108-88-3 | Yes | 1000 lb/ 454 kg | None. | Yes | 1% |
| Zinc dust | 7440-66-6 | Yes | 1000 lbs / 454 kg | None. | Yes | 1% |
| Xylene | 1330-20-7 | Yes | 100 lb/ 45.4 kg | None. | Yes | 1% |
| Ethylbenzene | 100-41-4 | Yes | 1000 lb/ 454 kg | None. | Yes | 0.1% |

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Fire Hazard; Immediate (Acute) health hazard; Chronic Health Hazard. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds for the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

Hi Temp Metalex

SDS Preparation Date (mm/dd/yyyy): 12/04/2015

Page 11 of 13

SAFETY DATA SHEET

US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

| <u>Ingredients</u> | CAS # | California Proposition 65 | | State "Right to Know" Lists | | | | | |
|---------------------|-----------|---------------------------|------------------|-----------------------------|-----|-----|-----|-----|-----|
| | | Listed | Type of Toxicity | CA | MA | MN | NJ | PA | RI |
| Aluminum powder | 7429-90-5 | No | N/Ap | Yes | Yes | Yes | Yes | Yes | Yes |
| Methyl ethyl ketone | 78-93-3 | No | N/Ap | Yes | Yes | Yes | Yes | Yes | Yes |
| Toluene | 108-88-3 | No | Developmental | Yes | Yes | Yes | Yes | Yes | Yes |
| Zinc dust | 7440-66-6 | No | N/Ap | Yes | Yes | No | Yes | Yes | Yes |
| Xylene | 1330-20-7 | No | N/Ap | Yes | Yes | Yes | Yes | Yes | Yes |
| Ethylbenzene | 100-41-4 | Yes | Cancer | Yes | Yes | Yes | Yes | Yes | Yes |

Canadian Information:

Canadian Environmental Protection Act (CEPA): All ingredients are present on the DSL.

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

International Information:

Components listed below are present on the following International Inventory list:

| <u>Ingredients</u> | CAS # | European EINECs | Australia AICS | Philippines PICCS | Japan ENCS | Korea KECI/KECL | China IECSC | NewZealand IOC |
|---------------------|-----------|-----------------|----------------|-------------------|----------------|-----------------|-------------|---|
| Aluminum powder | 7429-90-5 | 231-072-3 | Present | Present | Not listed | KE-00881 | Present | HSR001263 (coated, PGII); HSNO Approval: HSR001471, HSR001473 (coated, PGIII); HSNO Approval: HSR001474 (pyrophoric); HSNO Approval: HSR001472 (uncoated, PGII) |
| Methyl ethyl ketone | 78-93-3 | 201-159-0 | Present | Present | (2)-542 | KE-24094 | Present | HSR001190 |
| Toluene | 108-88-3 | 203-625-9 | Present | Present | (3)-2 | KE-33936 | Present | HSR001227 |
| Zinc dust | 7440-66-6 | 231-175-3 | Present | Present | Not listed | KE-35518 | Present | HSR001478, HSR001477, HSR001301, HSR001475, HSR001476 |
| Xylene | 1330-20-7 | 215-535-7 | Present | Present | (3)-60; (3)-3 | KE-35427 | Present | HSR000983 |
| Ethylbenzene | 100-41-4 | 202-849-4 | Present | Present | (3)-60; (3)-28 | KE-13532 | Present | HSR001151 |

SAFETY DATA SHEET

SECTION 16. OTHER INFORMATION

Legend

: ACGIH: American Conference of Governmental Industrial Hygienists
AICS: Australian Inventory of Chemical Substances
ATE: Acute Toxicity Estimate
CA: California
CAS: Chemical Abstract Services
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
CFR: Code of Federal Regulations
CSA: Canadian Standards Association
DOT: Department of Transportation
ECHA: European Chemicals Agency
ECOTOX: U.S. EPA Ecotoxicology Database
EINECS: European Inventory of Existing Commercial chemical Substances
ENCS: Existing and New Chemical Substances
EPA: Environmental Protection Agency
HSDB: Hazardous Substances Data Bank
IARC: International Agency for Research on Cancer
IBC: Intermediate Bulk Container
IECSC: Inventory of Existing Chemical Substances
IMDG: International Maritime Dangerous Goods
IOC: Inventory of Chemicals
IUCLID: International Uniform Chemical Information Database
KECI: Korean Existing Chemicals Inventory
KECL: Korean Existing Chemicals List
LC: Lethal Concentration
LD: Lethal Dose
MA: Massachusetts
MN: Minnesota
N/Ap: Not Applicable
N/Av: Not Available
NIOSH: National Institute of Occupational Safety and Health
NJ: New Jersey
NOEC: No observable effect concentration
NTP: National Toxicology Program
OECD: Organisation for Economic Co-operation and Development
OSHA: Occupational Safety and Health Administration
PA: Pennsylvania
PEL: Permissible exposure limit
PICCS: Philippine Inventory of Chemicals and Chemical Substances
RCRA: Resource Conservation and Recovery Act
RI: Rhode Island
RTECS: Registry of Toxic Effects of Chemical Substances
SARA: Superfund Amendments and Reauthorization Act
SDS: Safety Data Sheet / Material Safety Data Sheet
STEL: Short Term Exposure Limit
TDG: Canadian Transportation of Dangerous Goods Act & Regulations
TLV: Threshold Limit Values
TSCA: Toxic Substance Control Act
TWA: Time Weighted Average
WHMIS: Workplace Hazardous Materials Identification System

Hi Temp Metalex

SDS Preparation Date (mm/dd/yyyy): 12/04/2015

Page 13 of 13

SAFETY DATA SHEET

- References**
- : 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2015.
 - 2. International Agency for Research on Cancer Monographs, searched 2015.
 - 3. Canadian Centre for Occupational Health and Safety, CCIInfoWeb databases, 2015 (Chempendium, HSDB and RTECs).
 - 4. Material Safety Data Sheets from manufacturer.
 - 5. US EPA Title III List of Lists - 2015 version.
 - 6. California Proposition 65 List -2015 version

Preparation Date (mm/dd/yyyy)

: 12/04/2015

Other special considerations for handling

: Provide adequate information, instruction and training for operators.

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