

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: SUN/Metal
SYNONYMS: S/B Urethane
PRODUCT CODE: Sun Metal Part B
MANUFACTURER: Bert's Paint Inc.
ADDRESS: 2401 S. 12th Street
Phoenix, AZ 85034

EMERGENCY PHONE: 602-495-6000
FAX PHONE: 602-523-9675


CHEMICAL FAMILY: Paint Solvent base

PRODUCT USE: Industrial Coating
PREPARED BY: Michael Thornham

SECTION 2: HAZARD(S) IDENTIFICATION

Hazard Classification: Warning

Label Elements:

Hazard symbol:  Irritant, Flammable Health Hazard

Inhalation: May cause irritation to the respiratory system. Breathing vapors may affect the central nervous system. Move to fresh air.

Ingestion: Harmful if swallowed. Do NOT induce vomiting

Skin: Irritating to skin.

Eyes: May cause irritation, tearing, burning or redness

This product contains ingredients that may contribute to the following potential chronic health effects:

Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful.

Emergency Overview: Flammable liquid and vapor. Causes respiratory tract, eye and skin irritation. Contains material that may cause target organ damage, based on animal data. Possible reproductive hazard contains material which may cause adverse reproductive effects in females based on animal data.

Flammable liquid. Keep away from heat, sparks and flames. Avoid exposure - Obtain special instructions before use. Avoid breathing vapor or mist. Do not get in eyes. Avoid contact with skin and clothing. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.

Other Hazards: Rags, steel wool or waste soaked with this product may spontaneously catch fire if improperly discarded.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	Wt %	CAS #
Methyl ethyl ketone	25 - 35	78-93-3
Hexane, 1,6-Diisocyanato-, homo-polymer	60 - 70	28182-81-2
Hexane, 1,6-Diisocyanato	< 0.3	882-06-0

SECTION 4: FIRST AID MEASURES

- Ingestion:** Rinse mouth with water. Give one or two glasses of water. Never give anything by mouth to an unconscious person. Only induce vomiting at the instruction of medical personnel. Get medical attention
- Inhalation:** Remove exposed person to fresh air if adverse effects are observed get medical attention.
- Skin Contact:** Remove contaminated clothing and shoes. Wash with soap and water, if skin irritation occurs, get medical attention.
- Eye Contact:** Wash out immediately with water for up to 10 minutes. If possible remove contact lenses. Get medical attention.

SECTION 5: FIRE FIGHTING MEASURES

- General Fire Hazards:** Vapors may travel considerable distance to a source of ignition and flash back. Vapors may cause flash fire.
- Extinguishing media:** Water spray. Dry chemical or foam. CO2 may be ineffective on large fires.
- Special protective equipment:** Wear full protective gear including self-containing breathing apparatus operated in a positive pressure mode with full face piece, coat pants, gloves and boots.
- Conditions to Avoid:** Flammable. Flash back possible over considerable distance. Keep product and empty container away from heat and sources of ignition. Closed containers may rupture if exposed to fire or extreme heat. Thermal decomposition can lead to release of irritating gases and vapors.
- Incompatibility (Materials to Avoid):** Avoid strong alkaline and acids. Material is sensitive to static discharge
- Hazardous Decomposition:** CO, CO2, Oxides of Nitrogen
- Hazardous Polymerization:** Will not occur

SECTION 6: ACCIDENTIAL RELEASE MEASURES**Action to be taken if material is released or spilled:**

Ventilate area. Avoid unnecessary skin contact. Stop and/or contain spill if it can be done safely, avoiding discharge into drains, sewers, or waterways. Collect by absorption, shovel and/or wet mopping. Also wipe, scrape or soak up in/with an inert material and put in a container for disposal. Avoid contact with eyes.

Waste Disposal Method:

Dispose of in accordance with Local, State and Federal Regulations.

Precautions to be taken in Handling and Storing:

Remove all sources of ignition. Take precautions to prevent flashback. Ground and bond all containers and handling equipment. Take precautionary measures against static discharges. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Use with adequate ventilation. Avoid prolonged breathing of vapor. Avoid prolonged or repeated skin contact.

OTHER PRECAUTIONS:

Ensure adequate ventilation. Use only where airflow will keep vapors from building up in or near the work area in adjoining rooms. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing and disposal of flammable liquids.

Dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. All equipment should be non-sparking and explosion proof. Use explosion proof electrical equipment for ventilation, lighting and material handling

SECTION 7: HANDLING AND STORAGE**Precautions for safe handling:**

Observe good industrial hygiene practices. Provide adequate ventilation. Wear appropriate PPE. Avoid contact with eyes and prolonged or repeated contact with skin. Avoid breathing mists or vapors. When using, do not eat, drink or smoke.

Stir well before use. Keep container closed when not in use.

Take precautionary measures against static discharges. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from heat, sparks and flame. Extinguish all flames and pilot lights, and turn off stoves, heaters, electric motors and other sources of ignition during use and until all vapors are gone. Ignition and/or flash back may occur. Wash thoroughly after handling.

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

General Information: Use personal protective equipment as required.

Respiratory Protection:

Consult with an industrial hygienist to determine the appropriate respiratory protection for your specific use of this material. A respiratory protection program compliant with all applicable regulation must be followed whenever workplace conditions require the use of a respirator. Use of proper respiratory protection is recommended. Use only with adequate ventilation. In operations where exposure limits are exceeded, use a NIOSH approved respirator that has been selected by a technically qualified person for the specific work conditions. When spraying the product or applying in confined areas, wear a NIOSH approved respirator specified for paint spray or organic vapors

Ventilation:

Maintain good ventilation to keep product vapor concentrations below specified limit values.

Skin Protection:

Protective Gloves: Suitable gloves should be used to limit effect of skin over-exposure.

Wear long sleeved clothing.

Eye Protection:

Goggles with side shields or face shield are recommended.

Other Protective Clothing or Equipment:

To prevent repeated or prolonged skin contact, wear appropriate PPE and boots/shoes.

Work/Hygienic Practices:

Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Eye washes and safety showers in the workplace are recommended, as well as barrier creams, daily showers and a change of clothes. Wash thoroughly after handling.

SECTION 9: PHYSICAL AND CHEMICAL CHARACTERISTICS

Boiling Range	Not determined
Solubility in water	Not Soluble reacts
Flash Point	16° F (-9°C)
Solids by weight	72.70 ± 0.5
Volatile by weight	27.30 ± 0.5
Specific gravity	1.043
Weight per gallon and (Fill weight)	8.69 lbs
Coatings VOC	2.37 lbs (284.79 g/L)
Material VOC	2.37 lbs (284.79 g/L)
Appearance	Liquid
Solids by volume	64.82
Vapor density	Heavier than air
Odor	Slight ketone

SECTION 10: STABILITY AND REACTIVITY DATA

Stability: material is stable under normal conditions

Conditions to avoid: - Keep away from extreme heat, open flame, moisture, and ignition sources

Materials to avoid: Ammonia, water, strong bases, alcohols, amines.

Incompatibility: (Materials to avoid): Strong oxidizing agents, Alkalis and Bases

Hazardous Reactions: Will not occur:

Hazardous Decomposition: By fire and extreme heat: Carbon dioxide (CO₂), oxides of nitrogen (NO_x)
By hydrolysis: carbon dioxide

SECTION 11: TOXICOLOGICAL INFORMATION**Toxicological Remarks:****Acute Eye Irritation:**

Eye - eye irritation, rabbit, mildly irritating. Data for homopolymer of hexamethylene diisocyanate

Acute Skin Irritation:

Skin - skin irritation, rabbit. Slightly irritating. Data for homopolymer of hexamethylene diisocyanate

Skin - sensitization, guinea pig. Sensitizing. Data for 1,6 hexamethylene diisocyanate

Acute Dermal Toxicity:

LD 50 - lethal dose 50% of test species, >2000mg/kg, rabbit. Data for homopolymer of hexamethylene diisocyanate.

Acute Respiratory Irritation:

No test data found for this product

Acute Inhalation Toxicity:

LC50 - Lethal concentration 50% of test species, 2.18mg/1/4hr, rat. Data for homopolymer of hexamethylene diisocyanate (Aerosol)

Acute Oral Toxicity:

LD50 - Lethal dose 50% of species, >5000 mg/kg, rat. Data for homopolymer of hexamethylene diisocyanate.

Chronic Toxicity:

This product does not contain any substances that are considered by OSHA, NTP, IARC or ACGIH to be "probable" or "suspected" human carcinogens.

Component:

Methyl Ethyl Ketone	
LD50 oral rat male	>2000 - < 5000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
LC50 Inhalation	> 5000 ppm

SECTION 12: ECOLOGICAL INFORMATION**Product:**

No ecological information on this product regarding acute toxicity to fish, aquatic invertebrates or aquatic plants.

Component:**Acute toxicity to Fish:**

Fish

Acute: OECD 203; ISO 7346; 92/69/EEC, C.1 static Brachydanio rerio/LC0 (96 h): ≥ 100 mg/l

The product may hydrolyse. The test result maybe partially due to degradation products. The product has low solubility in the test medium. An eluate has been tested. Nominal concentration.

Chronic:

Study not necessary due to exposure considerations. Aquatic invertebrates

Acute: Directive 92/69/EEC, C.2 static Daphnia magna/EL50 (48 h): 127 mg/l Nominal concentration. The product may hydrolyse. The test result maybe partially due to degradation products.

Chronic: Study not necessary due to exposure considerations. Aquatic plants Toxicity to aquatic plants:

OECD Guideline 201 static green algae/EC50 (72 h): > 1,000 mg/l Nominal concentration. The product may hydrolyse. The test result maybe partially due to degradation products.

Microorganisms Toxicity to microorganisms:

OECD Guideline 209 static activated sludge of a predominantly domestic sewage/EC20 (3 h): 880 mg/l Nominal concentration. The product may hydrolyse. The test result maybe partially due to degradation products.

Degradability / Persistence Biological / Abiological Degradation Test method:

OECD 301D; EEC 92/69, C.4-E (aerobic), Method of analysis: BOD of the ThOD Degree of elimination: 1 % (28 d) Evaluation: Poorly biodegradable.

The product is unstable in water. The elimination data also refer to products of hydrolysis. Hydrolysis Test method:

OECD Guideline 111 (abiotic) pH4 Half-life: < 1 h Test method: OECD Guideline 111 (abiotic) pH 7

Half-life: < 1 h Test method:

OECD Guideline 111 (abiotic) pH9 Half-life: < 1 h Bioaccumulation calculated Bioconcentration factor 367.7

Analogous: Assessment derived from products with similar chemical character. Environmental mobility: Transport between environmental compartments: calculated Adsorption/water - soil log KOC: 7.3 - 7.8

Other adverse effects: Do not release untreated into natural waters. The local regulations on waste-water treatment must be followed.

No information available on this product for Aquatic Invertebrates and Aquatic Plants

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Instructions:

Treatment, storage, transportation and disposal must be in accordance with applicable Federal, State and local regulations. Empty containers retain product residue, follow label warnings even after container is emptied.

Empty Container Warning:

Emptied containers may retain product residue. Follow label warnings even after container is emptied. Residual vapors may explode on ignition.

SECTION 14: TRANSPORTATION INFORMATION

DOT Hazard Class 3

UN-No UN1193 (methyl ethyl ketone)

Packing Group II

Description UN1193, Paint, HC 3, PG III

ICAO / IATA 1193 .

SECTION 15: REGULATORY INFORMATION

US Federal Regulations -

TSCA USA Yes, all components are listed or exempt

SARA 311/312 hazardous categorization**Hazardous Categories**

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of pressure Hazard	No
Reactive Hazard	No

SECTION 16: OTHER INFORMATION

HMIS Hazard ID:

Health	2
Flammability	3
Physical Hazards	0

- Rating: 0 Minimal
1 Slight
2 Moderate
3 Serious
4 Severe * chronic health effect

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