chemprime
Metal Primer

Material Safety Data Sheet

SAFETY DATA SHEET

Safety Data Sheet according to 91/155/EC
Date Created: 05/04/2023
Product: CHEM Prime - METAL PRIMER

1. Product and Company Identification

Use: Metal Primer, Bonding Agent

CHEM Prime Metal Primer

Company:

Address: Unit A7, The Palisades, 39 Kelly Road, Jet Park, Boksburg, Gauteng, South Africa
Tel: +27 011 552 8073
Email: info@chemtrust-solutions.com

Emergency Information:

+27 82 262 4267 / +27 82 326 8277

2. Composition/Information on Ingredients

Chemical Name	CAS No.	Wt % Less than	Exposure Guidelines					
			ACGIH		OSHA			
			TWA	STEL	TWA	Ceil	Units	Skin
Methyl Isobutyl Ketone	108-10-1	60	50	75	100	N.E.	ppm	
Xylene	1330-20-7	10	100	150	100	N.E.	ppm	
Butanol	71-36-3	6	400	500	400	N.E.	ppm	
Ethoxy Ethyl Acetate	111-15-9	2	N.E.	N.E.	N.E.	N.E.		
Formaldehyde	50-00-0	1	0.3C	N.E.	0.75	N.E.	ppm	

N.E. = Not Established S =Skin C = Ceiling

3. Hazard Identification

Grey liquid, with solvent odour. Flammable liquid and vapour. Harmful if absorbed through skin. May cause skin and eye irritation. May cause respiratory tract irritation. Vapour harmful; may affect the brain or nervous system causing dizziness, headache or nausea. May be fatal if inhaled in confined spaces.

4. First Aid Measures

General advice: Immediately remove contaminated clothing.

Inhalation: Move person to fresh air. Restore and support continued breathing. If breathing is difficult, give oxygen. Get immediate medical attention.

Eye Contact: Flush eyes immediately with large amounts of water for at least 15 minutes holding eyelids open while flushing. Get prompt medical attention.

Skin Contact: Flush contaminated skin with large amounts of water while removing contaminated clothing. Wash contaminated skin areas with soap and water. Get medical attention if symptoms occur.

Ingestion, if swallowed, do not induce vomiting. Give victim one or two glasses of water or milk. Call a physician or poison control centre immediately for further instructions. Never give anything by mouth to an unconscious person.

5. Fire Fighting Measures

Suitable extinguishing media:
Dry extinguishing media, carbon dioxide (CO2), foam, water fog.

Specific Hazards:
Carbon dioxide, carbon monoxide, chlorine, hydrogen chloride, phosgene and formaldehyde.
The substances mentioned can be released in case of fire.

Special protective equipment:
Wear full firefighting protective clothing, including self-contained breathing apparatus. Water spray may be ineffective. If water is used, fog nozzles are preferable. During a fire, irritating and/or toxic gases and particulate may be generated by thermal decomposition or combustion.

Further Information:
Flammable liquid and vapour. Keep containers tightly closed. Isolate from heat, electrical equipment, sparks, open flame, and other sources of ignition. Closed containers may rupture when exposed to extreme heat. Use water spray to keep fire exposed containers cool.

6. Accidental Release Measures

Personal Precautions:
Use personal protective clothing. Ensure adequate ventilation. Use self-contained breathing equipment.
Keep non-essential personnel a safe distance away from the spill area.

Environmental Precautions:
Do not empty into drains. Do not discharge into the soil or subsoil. Notify appropriate authorities if necessary.

Methods for cleaning up or taking up:
Before attempting clean-up, refer to hazard caution information in other sections of this form.
For large amounts: Pump off product.
For residues: Contain and remove with inert absorbent material and non-sparking tools. Avoid contact.

7. Handling and Storage

Handling:
Keep closure tight and container upright to prevent leakage. Ground and bond containers when transferring material. Avoid skin and eye contact. Wash thoroughly after handling. Avoid breathing of vapour or spray mists. Do not handle until all safety precautions have been read and understood.
Empty containers should not be re-used. Use with adequate ventilation. Protect against moisture.Because empty containers may retain product residue and flammable vapours, keep away from heat, sparks and flame; do not cut, puncture or weld on or near the empty container. Do not smoke where this product is used or stored.

Warning:
Application of this product within a tank or other confined space must comply with the requirements of the OSHA Permit-Required Confined Spaces Standard, 29 CFR 1910.146 in USA.

Storage:
Do not store or use near heat, sparks or open flame. Refer to OSHA 29CFR Part 1910.106 “Flammable and combustible Liquids” for specific storage requirements. Store only in well ventilated areas. Do not puncture, drag, or slide container. Keep container closed when not in use.

8. Exposure Controls and Personal Protection

Components with workplace control parameters:

108-10-1 Methyl Isobutyl Ketone (Methyl Pentanone)
1330-20-7 Xylene (DiMethyl Benzene)
111-15-9 Ethoxy Ethyl Acetate
71-36-3 Butanol
500-00-0 Formaldehyde

Personal protective equipment:

Respiratory protection:
Use a combination filter EN141 Type ABEK (gases/vapours of organic, inorganic, acid inorganic and alkaline compounds) or NIOSH/MSHA approved chemical/mechanical filter respirator designed to remove a combination of particulates and organic vapour if occupational limits are exceeded. For emergency situations, confined space use, or other conditions where exposure limits may be greatly exceeded, use an approved air-supplied respirator. Observe OSHA regulations (29CFR 1910.134) for respirator use.

Hand protection:
Chemically resistant protective gloves are recommended (EN 374).
Suitable materials with direct prolonged contact in accordance with Protective Index 6, corresponding to > 480 minutes of permeation time according to EN 374:
Butyl Rubber (IIR) – 0,7 mm coating thickness
Nitrile Rubber (NBR) – 0,4 mm coating thickness
Chloroprene Rubber (CR) – 0,5 mm coating thickness
Unsuitable materials:
Natural Rubber (or Latex Disposable) – 0,1 mm thickness

Eye Protection:
Safety glasses with side shields (EN166) where splashing may occur.

Body Protection:
Safety shoes (eg to DIN-EN 346).

General safety and hygiene measures:
Sufficient ventilation in pattern and volume should be provided in order to maintain air contaminant levels below recommended exposure limits. Caution: Solvent vapours are heavier than air and collect in lower levels of the work area. Sufficient ventilation (using explosion-proof equipment) should be provided to prevent flammable vapour/air mixtures from accumulating. Wash hands thoroughly before eating, smoking, or using toilet facility. Do not smoke in any chemical handling or storage area. Food or beverages should not be consumed anywhere this product is handled or stored. Wash thoroughly with soap and water after handling.

9. Physical and Chemical Properties

Form: Liquid
Colour: Grey
Odour: Ester Solvent

Boiling Range: 80 - 140ºC
Freezing Point: Not determined
Evaporation Rate: Slower than Ether

Flash Point: 19ºC
Lower Explosive Limit: 1.0%
Upper Explosive Limit: 11.5%
Vapour Pressure: Not determined

Density: 0,94 g/cm3 (25ºC)

Viscosity: 100 mPa.s (25ºC) DIN 53018

Solubility in Water: Insoluble

Volatile by Weight: 75,0%
Volatile by Volume: 86,5%

10. Stability and Reactivity

Substances to avoid:
High temperatures. Sources of ignition. Strong oxidizers, bases, water.

Hazardous reactions:
Hazardous polymerization will not occur under normal conditions.

Stability:
This product is stable under normal storage conditions.

11. Toxicological Information

Primary skin irritation: Irritant

Primary irritations of the mucous membrane: Irritant

No other product toxicological information is available.

12. Ecological Information

Persistence and Degradability:
Assessment: The product is insoluble in water. Experience shows the product to be non degradable.
Marine pollutant.

Other adverse effects:
Absorbable organically-bound halogen (AOX):
This product contains organically-bound halogen.
Contains no substances that are detrimental to the ozone layer.

No other ecotoxicological information.

13. Disposal Considerations

Should be carried in accordance with Federal (40CFR Part 261), state and local environmental control regulations. If waste is determined to be hazardous, use licensed hazardous waste transporter and disposal facility.

14. Transport Information

DOT Proper Shipping Name	Adhesive
DOT Hazard Class	3.2 Highly Flammable
DOT UN/NA Number	UN 1133
Emergency Response Guide Number	26
Packing Group	II

15. Regulatory Information

Regulations of the European Union (Labelling) / National Legislation/ Regulations

Council Directive 67/548/EEC of 27 June 1967 on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labeling of dangerous substances:

Hazard Symbols:
Highly Flammable Liquids with a flash point of -18ºC or more and below or equal to 23ºC.

R-phrase(s):
R11 Highly Flammable.
R20/21/22 Harmful by inhalation, in contact with the skin and if swallowed.
R36/37/38 Irritating to eyes, respiratory system and skin.

S-phrase(s):
S23 Do not breathe vapour/spray.
S36/37 Wear suitable protective clothing and gloves.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

South Africa Regulations

This product contains the following substances subject to the requirements of Schedule 5.1 of the Occupational Health and Safety Act No. 85 of 1993 Section 43 and listed in Hazardous Chemical Substances Guidelines Annexure 1 Table 3.

Methyl Isobutyl Ketone	CAS Number	108-10-1	Wt % Less Than 60
Xylene	CAS Number	1330-20-7	Wt % Less Than 10
Butanol	CAS Number	71-36-3	Wt % Less Than 6
Ethoxy Ethyl Acetate	CAS Number	111-15-9	Wt % Less Than 2
Formaldehyde	CAS Number	500-00-0	Wt % Less Than 1

US Federal Regulations

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

SARA Section 313: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorisation Act of 1986 and 40 CFR Part 372:

Methyl Isobutyl Ketone	CAS Number	108-10-1	Wt % Less Than 60
Xylene	CAS Number	1330-20-7	Wt % Less Than 10
Butanol	CAS Number	71-36-3	Wt % Less Than 6
Ethoxy Ethyl Acetate	CAS Number	111-15-9	Wt % Less Than 2
Formaldehyde	CAS Number	500-00-0	Wt % Less Than 1

Toxic Substances Control Act:
Inventory Status: The chemical substances in this product are on the TSCA Section 8 Inventory.

Other International Regulations

Canadian WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.

Canadian WHMIS Class: No information available.

16. Other Information

Recommended Use: Metal Primer. Bonding Agent for Synthetic Rubber Compounds.

The information provided herein is based on the latest available state of our knowledge and experience with the product and does not guarantee certain properties. The purpose of this safety data sheet is to describe the product in terms of its safety and handling requirements.
As Presplus Products CC has no control as to the way in which others may use the information, recipients of our product must take responsibility for observing existing local and international laws and regulations.