

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name : TPR1400
 Product Use : Primer for cold bonding on metal surface
 Manufacturer's Address : Thejo Engineering Ltd
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2. COMPOSITION / INFORMATION ON INGREDIENTS

Inorganic fillers dispersed in mixture of organic solvents like MIBK, MEK and Xylene along with dispersing agents.

Chemical Name	CAS Number	% Range
MIBK	108-10-1	< 60%
Xylene	1330-20-7	< 15%
MEK	78-93-3	< 5%

3. HAZARD IDENTIFICATION

	GHS Classification	Hazardous statement
Flammable Liquids	Category 2	H225
Acute toxicity, dermal	Category 5	H313
Acute toxicity, inhalation	Category 4	H335
Skin corrosion/irritation	Category 2	H315
Eye irritation	Category 2A	H319
Specific target organ toxicity – Single exposure	Category 3	H335
Aspiration hazard	Category 1	H304
Acute aquatic toxicity	Category 1	H400

Signal word: DANGER

GHS Labeling

Hazard pictograms (CLP):



GHS02

GHS07

GHS08

Human Health Hazards

- Inhalation:** Vapors may be irritating to the nose, throat, and respiratory tract. Exposure to high vapor concentrations may cause central nervous system (CNS) depression. Aspiration of liquid may cause pneumonitis, pulmonary edema, and hemorrhaging.
- Skin Contact:** Liquid is moderately irritating to the skin. Prolonged or repeated contact can result in drying of the skin which may result in skin irritation and dermatitis (rash). Liquid may be absorbed through the skin.
- Eyes:** Severely irritating to the eyes. High vapour concentrations are also irritating
- Ingestion:** May cause headache, dizziness, fatigue, and central nervous system depression along with gastrointestinal disturbances.

4. FIRST AID MEASURES

- Eye Contact:** Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15minutes. Get medical attention.
- Skin Contact:** In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
- Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
- Ingestion:** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Seek medical attention. If irritation persists even after the first aid in any of the above case obtain immediate medical advice

5. FIRE FIGHTING MEASURES

- Extinguishing media:** CO₂, foam, dry chemicals
- Protection of fire-fighters:** Use full protective clothing. Self contained breathing apparatus
- Combustion products:** Carbon monoxide, carbon dioxide and other organic compounds

6. ACCIDENTAL RELEASE MEASURES

- Personal precaution:** Wear appropriate protective equipments
- Environmental precaution:** Prevent entry to sewers or streams, dike if needed. Prevent contamination of soil. Consult local authorities.
- Procedure for clean Up:** Clear all personnel from that area- Keep away from sources of ignition - No smoking. Prevent contamination of waterways. Absorb with an inert dry material and place in an appropriate waste disposal container.

7. HANDLING AND STORAGE

- Handling:** Flammable. For Industrial Use Only. Avoid contact with eyes, skin and clothing. Do not ingest. Avoid inhalation of chemical. DO NOT handle or store near an open flame, heat, or other sources of ignition. DO NOT pressurize, cut, heat or weld containers. Keep the containers closed

when not in use. Protect against physical damage. Use appropriate personal protective equipment. Electrostatic charges may be generated during pumping. Electrostatic discharge may cause fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Restrict line velocity during pumping in order to avoid generation of electrostatic discharge (≥ 10 m/sec). Avoid splash filling. Do NOT use compressed air for filling, discharging, or handling operations. Extinguish any naked flames.

Storage: Store in a cool dry place below 20°C away from direct sunlight and exposure to moisture or water.

Keep tightly sealed when not in use.

Suitable Packing materials: Keep in steel containers, glass containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures: Local exhaust recommended. Explosion protected electrical equipment. Take precautionary measures against static discharges.

Respiratory protection: Use an appropriate NIOSH approved respirator

Gloves: Impervious gloves. Butyl rubber gloves. Silver Shield(R).

Skin protection: Skin contact should be prevented through the use of suitable protective clothing, gloves and footwear, selected for conditions of use and exposure potential.

Eyes: Chemical goggles; also wear a face shield if splashing hazard exists.

Hygienic measures: When using do not eat, drink or smoke. Wash hands after working with the substance.

9. PHYSICAL AND CHEMICAL CHARACTERISTICS

1. Physical State	Liquid
2. Color	Gray/Black
3. Density @ 0°C	1.0 +/- 0.05 @ 25°C
4. Viscosity	15 Seconds @ 25°C Ford Cup Method
5. Shelf Life	3-6 Months, if stored below 20°C
6. Flash Point	14°C
7. Boiling Point	115-117°C

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions

Hazardous Polymerization: Will not occur

Conditions to Avoid: Direct sparks, flames and other sources of ignition. Do not puncture or incinerate containers

Materials to Avoid: Reacts with strong acids, strong bases, alcohols, amines and water.

Hazardous decomposition products: Thermal breakdown may produce carbon oxides and traces of incompletely burned carbon compounds.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: This product may be irritating to the eyes, skin, and respiratory system. This product may cause sensitization in previously exposed individuals and result in contact dermatitis. This product may be absorbed through the skin. Acute inhalation may cause central nervous system depression with drowsiness, dizziness, headache, nausea, vomiting, unconsciousness and coma.

Chronic toxicity: Death may occur from respiratory arrest or ventricular fibrillation resulting in primary cardiac failure. Liver and kidney damage may also occur.
Prolonged or repeated liquid contact can result in de-fatting and drying of the skin, which may result in skin irritation and dermatitis. Sensitization may occur. Repeated exposure to the eyes may cause conjunctivitis.

12. ECOLOGICAL INFORMATION

General: Toxic with aquatic life with long lasting effect

13. DISPOSAL CONSIDERATION

Waste disposal recommendations: Waste should be disposed as hazardous waste according to local regulations.

Waste treatment methods: Treatment should be carried out as established for the product, recommending routes of co-processing in cement kilns and incineration.

14. TRANSPORT INFORMATION

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

Shipping Name : Flammable liquids, n.o.s
UN Number : 1993
Class : 3
Packaging Group : II

15. REGULATORY INFORMATIONS

Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations

Other regulations, limitations and prohibitive regulations

VOC (EU) in %: 80.00 %

VOC (EU) in g/l: 800.0 g/l

Chemical safety assessment: A Chemical Safety Assessment has been carried out.

HIMS RATINGS: HEALTH 2; FIRE 3; REACTIVITY 0

NFPA RATINGS: HEALTH 2; FIRE 3; REACTIVITY 1

16. OTHER INFORMATION

All employees or contractors etc. who use this product must have access to this Safety Data Sheet.

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Date of issue : February 20, 2017

History revision : msds updated to comply with ghs regulations. Replaces MSDS dated March 30, 2014.

Prepared by : Thejo engineering ltd.