



## MATERIAL SAFETY DATA SHEET

### Zinc bulk

#### 1. IDENTIFICATION:

**COMPANY :** ITW INDIA LIMITED  
**ADDRESS :** PLOT NO 34 – 37, PHASE -2,  
 APIIC, PASHAMMYLARAM,  
 MEDAK – 502 307 (35 KM FROM HYDERABAD)  
 INDIA.  
**EMERGENCY CELL No:** **91-900031515**  
**TELEPHONE:** 91 – 8455 – 224700  
**FAX:** 91 – 8455 – 224705  
**PRODUCT USE:** Anti corrosive Coating  
**PACKAGES :** 10 Kgs Tin  
**NFPA RATING:** Health 2, Flammability 3, Reactivity 0.  
**REVISION DATE:** Jan'2011

#### 2. HAZARDOUS INGREDIENTS:

	Wt/wt%	CAS#	TLV	LD 50	LC 50	R-Phrases
Zinc Dust	60-80	7440-66-6	NE	NE	NE	
Xylene	10-15%	1330-20-7		5000 ppm	2119mg/Kg	R11,R38\R22
1-nitropropane:	< 0.5 %	108-03-2	Not available			R 10, 20/21/22
Nitro ethane :	< 0.1 %	79-24-3	Not avail			R 10,20/22

#### 3. HAZARDS IDENTIFICATION:

**Important Hazards-Fire:** Highly Flammable.  
 Gas/Vapor explosive with air with in explosion limits.  
 The vapors are heavier than air ,spreads along the ground.  
 In use, may form flammable /explosive vapor –air mixture.  
 Pressurized container.

**Environmental Hazards:** May cause long term adverse effects in aquatic environment.

**POTENTIAL HEALTH EFFECTS & SIGNS AND SYMPTOMS OF EXPOSURE:**  
**Skin Contact:** Can irritate. Prolonged contact can cause redness, swelling and cracking of skin.  
**Eyes:** May irritating, but does not damage eye tissue.  
**Inhalation:** Vapors may cause dizziness and nausea.  
**Ingestion:** Not significant in small (mouthful) amounts.

#### 4. FIRST AID :

**Skin Contact:** Remove contaminated clothing. Wash exposed areas with soap and water.

**Eyes:** Rinse carefully under upper and lower eyelids using plenty of water for at least 10 min.

**Inhalation:** Remove to fresh air if dizzy or nauseated. In case of loss of consciousness, give artificial Respiration.

**Ingestion:** Do not induce vomiting. Accidental ingestion of a single mouthful is not expected to cause significant harm. Rinse mouth with water.

**NOTE:** In all severe cases, contact physician immediately.

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**5. FIRE HAZARD :**

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<i>Conditions of flammability:</i>	Bulk: Ignition will occur if used near flames, arcs or any other ignition source.
<i>Flash point:</i>	< 25 deg C( Pensky Marten closed cup)
<i>Flammable limits in air:</i>	1. 2% to 7%
<i>Extinguishing media:</i>	Carbon Dioxide, foam, water, dry chemicals
<i>Special fire fighting procedures:</i>	Keep containers cool with water spray.
<i>Hazardous combustion products:</i>	Smoke, soot, oxides of carbon
<i>Unusual fire hazards:</i>	Sensitive to static hazard
<i>Special Protective equipment for fighters:</i>	Full protective clothing and self containing breathing apparatus.

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**6. ACCIDENTAL RELEASE MEASURES:**

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<i>Personal Precautions:</i>	Personal Protection Equipment must be worn. See Section 8.
<i>Methods for Cleaning up on Soil:</i>	Prevent product from entering drains \surface water\ground water. Remove sources of ignition. Mop up or sweep up with absorbent (For disposal, see

Section 13)

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**7. HANDLING AND STORAGE :**

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<i>Handling:</i>	Ensure good ventilation. Do not spray on a naked flame or any incandescent material. Do not pressurize ,cut ,heat or weld containers(empty product containers may contain product residue) Do not handle, store or open near an open flame, sources of heat or sources of ignition.
<i>Storage:</i>	Do not smoke. Avoid proximity or contact with hot surfaces, flames or sparks. Store in dry ,cool ,well ventilated area. Keep container tightly closed. Keep away from heat. Keep away from all sources of ignition. Avoid breathing vapors. Avoid eye contact. Avoid repeated or prolonged skin contact. Avoid breathing spray mist.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION :

<b>Recommended Engineering Controls</b>	When using, do not eat ,drink or smoke. None, unless sprayed. Use where ventilation will carry spray mist away from occupied areas.
<b>Personal protection:</b>	
<b>Respiratory protection:</b>	Ensure good ventilation. High vapor concentration: gas mask, filter A. In case of insufficient ventilation wear suitable respiration equipment. Respirator with filter if sprayed in enclosed unventilated space.
<b>Skin and hand protection:</b>	Handle according to good industrial hygiene and safety procedures. Appropriate protective clothing and gloves. Wear nitrile rubber gloves if hand exposure is unavoidable.
<b>Eye protection :</b>	Wear safety glasses to protect eyes.

## 9. PHYSICAL PROPERTIES :

Physical and chemical properties of active product without propellant.  
These are indicative values only. Please refer to product specification sheet.

<b>Appearance:</b>	Grey
<b>Odor:</b>	Solvent
<b>pH:</b>	Not Applicable
<b>Initial boiling point:</b>	>108 °C
<b>Flash point;</b>	<25c
<b>Vapor pressure:</b>	103mm Hg
<b>Oxidizing properties:</b>	Not applicable
<b>Pour point:</b>	Not applicable.
<b>Water solubility:</b>	Not miscible
<b>Density\Sp gravity:</b>	2.2

## 10. STABILITY AND REACTIVITY:

<b>Stability:</b>	Stable in normal conditions of use.
<b>Conditions to avoid:</b>	Avoid proximity or contact with flames or sparks Strong oxidizing agents, strong acids
<b>Incompatibility:</b>	None Known.
<b>Hazardous decomposition products:</b>	Carbon di oxide, Carbon monoxide ,Aldehydes and Ketones
<b>Reactivity:</b>	None Known.

## 11. TOXICOLOGICAL INFORMATION

(Based on test with similar products). (Refers to active component) No toxicological information available.	
<b>Oral LD (50 rat):</b>	>2000mg/kg
<b>Dermal LD( 50 Rabbit):</b>	No information available
<b>Inhalation LC (50 Rat/4h):</b>	No information available.
<b>Skin contact:</b>	Slightly irritant.
<b>Eye Contact:</b>	Will cause eye discomfort, but will not injure eye tissue.
<b>Inhalation:</b>	Avoid breathing vapors or mists. Irritating to respiratory system.
<b>Ingestion:</b>	Minimal toxicity.
<b>Mutagen city and Carcinogenicity:</b>	No information available.

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**12 . ECOLOGICAL INFORMATION**

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<b>Mobility :</b> and all bodies of	Should be kept out of sewage and drainage systems, water
<b>Degradability:</b> biodegradable.	The product is expected to be partially or slowly
<b>Ecotoxicity and bioaccumulation:</b>	Expected to be toxic to aquatic organisms.

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**13 DISPOSAL :**

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Disposal of product:	This product is not suitable for disposal by either landfill or via municipal sewers, drains, natural streams or rivers. Dispose of in a safe manner ,in accordance with local regulations
Disposal of packing:	Dispose of in a safe manner ,in accordance with local regulations. . Non hazardous waste as per classification in The Hazardous Wastes ( Management and Handling) Rules
RCRA: U.S EPA	hazardous waste Waste number: D001

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**14 TRANSPORTATION :**

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Labels Required :Flammable Liquid

Land Transport UNDG:  
Dangerous Goods Class: 3  
UN Number: 1263  
Shipping Name: Paint

Sub risk: NA  
Packing Group: III

**Air Transport IATA:**

ICAO/IATA Class: 3 ICAO/IATA Sub risk:NA  
UN/ID Number: 1263 Packing Group: III  
Shipping Name: Paint

**Maritime Transport IMDG:**

IMDG Class: 3 IMDG Sub risk: NA  
UN Number: 1263 Packing Group:III  
EMS Number: F-D, S-U Marine Pollutant: Yes  
Shipping Name: Paint

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**15. REGULATORY INFORMATION :**

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**TSCA:** All ingredients are listed in TSCA inventory

**EEC Labeling information:**

Hazard Symbols: Highly Flammable  
Irritant: Xi  
Dangerous for Environment: N

Risk phrases: R11: Highly Flammable.  
R38: Irritating to Skin.  
R 51\53: Toxic to aquatic organisms, may cause long term  
adverse effects in the aquatic

Environment.  
R 67: Vapors may cause drowsiness and dizziness.  
Safety phrases: Pressurized container .Protect from sunlight and do not  
expose to temperatures exceeding 50<sup>0</sup> C. Do not pierces or  
burn after use .Do not spray on naked flame or any  
incandescent material l. Keep away from sources of ignition-  
No smoking. Keep out of reach of children. With out adequate  
ventilation formation of explosive mixtures may be possible.

S23.2: Do not breathe vapor  
S23.4: Do not breathe spray.  
S46: If swallowed seek medical advice immediately and show  
this container or Label.  
S 51: Use only in ventilated areas.

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**.16. OTHER INFORMATION:**

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**Sources of Key data used:** Raw material supplier's data sheets were used as key data  
sources in the preparation

Of this safety data sheet.

**Risk phrases used in Sec.3:**

R 11: Highly Flammable  
R 20:Harmful by inhalation  
R22: Harmful if swallowed  
R36/38: Irritating to Eyes and skin.  
R51/53: Toxic to aquatic organizations, may cause long term  
adverse effects in the aquatic environment.  
R 65: Harmful, may cause lung damage if swallowed.  
R66 : Repeated exposure may cause skin dryness or  
cracking.  
R67 Vapors may cause drowsiness and dizziness.

Revision Statement: New Product  
Supersedes: Nil

The contents and format of this MSDS are in accordance with EC Commission Directive.