MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION		
Trade Name MET-L-COOL WS 40HW		
Manufacturer/Supplier	ITW Chemin, ITW INDIA LIMITED	
	Plot No: 34 to 37, Phase- 2, IDA, APIIC, Pashammylaram, Medak, Dist- 502307, (35 kms from Hyderabad), Andhra Pradesh, INDIA	
Phone Number	+91 8455 224700/224701	
Fax Number	+91 8455 224705	
E-mail	chemininfo@itwchemin.com	
Website	www.itwchemin.com	

2. COMPOSITION/INFORMATION ON THE COMPONENTS

No Hazardous components as per OSHA'S HAZARD COMMUNICATION STANDARD 29CFR 1910.1200

Component Name	CAS#	Concentration	Exposure Limits	R-Phrase
Tri Ethanol Amine	102-71-6	1-4%	ACGIH: TWA 5 mg/m3	R 36/R38
Light naphthenic, chemically neutralized oil	64742-52-5	60-80%	ACGIH: TWA 5mg/m3	
Amphoteric surfactant blend	90170-43-7	1-5%		
Petroleum sulphonates	68410-99-1	20-25%		
Butyl Diglycol	112-34-5	1-5%		R36

3. HAZARD IDENTIFICATION

Statement of hazardous/dangerous	Hazardous	Non dangerous
goods		

4. FIRST AID MEASURES	SYMPTOMS	ACTIONS	
Eye contact	May be Mild irritation at the site of contact.	Wash immediately with plenty of soap and water	
Skin contact	May be Irritation and redness	Bathe the eye with running water for 15 minutes. Consult a doctor	
Ingestion	May be irritation of throat	Wash out mouth with water	
Inhalation	May be coughing and sore throat.	Remove causality from exposure ensuring one's own safety whilst doing so.	

5. FIRE FIGHTING MEASURES

Extinguishing Media	Use foam, dry chemical or carbon dioxide.
Unsuitable Extinguishing Media	Do not use water jet.
Special Hazards of Product	This product may give rise to hazardous fumes in a fire.
Protective Equipment for Fire- Fighting	Wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

1 -			
Personal Precautions		Material can create slippery conditions underfoot.	
	Environmental Precautions	Try to prevent the material from entering drains or rivers.	
	Spillages	Contain and absorb using earth, sand or other inert material. Transfer into suitable containers for recovery or disposal. Finally flush area with	

		plenty of water.
7. H	ANDLING AND STORAGE	
	Handling	Use only at the dilution specified. See label or technical data sheet.
	Storage	Storage temperature should be controlled to between 5 and 40 °C.
8 F	XPOSURE CONTROLS/PE	ERSONAL PROTECTION
	Engineering Control Measures	Exposure to this material may be controlled in a number of ways. The measures appropriate for a particular worksite depend on how the material is used and on the potential for exposure. Use of the basic principles of Industrial Hygiene will enable this material to be used safely.
	Respiratory Protection	Respiratory protection not normally required.
	Hand Protection	Concentrated product - PVC or rubber gloves. Diluted product - Use a good quality barrier cream.
	Eye Protection	Chemical resistant goggles if there is a risk of eye contact.
	Body Protection	Normal work wear.
9. P	HYSICAL AND CHEMICAL	PROPERTIES
	Physical State	Liquid.
	Color	Amber
	Odor	Faint ammonia odor .
	рН	9.4 – 10.2 at 5.0 % volume in water. (Typical)
	Boiling Range/Point (°C)	Boils above 100.
	Flash Point (PMCC) (°C)	Exceed 100.
	Solubility in Water	Miscible.
	Density	0.93 (measured as kg/liter)
	Auto-flammability (°C)	Above 200.
	Viscosity (CSt)	Mobile liquid at ambient temperatures. (53 +/-3 CST @37.8C)
The a	bove mentioned values are typical, ca	n 't be inferred as product specifications
10. \$	STABILITY AND REACTIV	'ITY
	Stability	Stable under normal conditions.
	Conditions to Avoid	High temperatures.
	Materials to Avoid	Strong oxidizing agents. Strong acids.
	Hazardous Decomposition Products	After evaporation of water, combustion will generate: oxides of nitrogen. ammonia. smoke, possibly thick and choking, resulting in zero visibility.
11. ⁻	TOXICOLOGICAL INFORM	MATION
	Routes of exposure	Refer to section 4 of MSDS for routes of exposure and corresponding symptoms
12. I	ECOLOGICAL INFORMAT	-
	Mobility Persistence/Perradability	The product will leach into soil. The product is non-volatile and water-soluble and will partition to the aqueous phase.
	Persistence/Degradability	The product is expected to be partially or slowly biodegradable.
13. l	DISPOSAL	
	Product Disposal	Incineration. Dispose of in accordance with all applicable local and national regulations.
	Container Disposal	Labels should not be removed from containers until they have been cleaned. Dispose of containers with care. Do not incinerate closed containers.
14. ⁻	TRANSPORT INFORMATI	ON
	ADR/RID	Not dangerous
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IMDG/ IMO	Not dangerous		
IATA/ICAO	Not dangerous		
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15.REGULATORY INFOR	MATION		
Hazard Symbols			
Risk phrases used in s.2	R36: irritating to eyes		
	R38: irritating to skin		
Safety phrases	None		
Note	The regulatory information given above only indicates the principle regulations specifically applicable to the product described in the safety data sheet. The users attention is drawn to the possible existence of additional provisions, which complete these regulations. Refer to all applicable national and local regulations or provisions.		
16. OTHER INFORMATIO	N		
Other information	Metal working fluid		
HMIS RATING	Health: 1 Reactivity: 1 Flammability: 1		
Legal disclaimer	The above information is believed to be correct but does not purport to be all-inclusive and shall be only used as guide. This company shal not be held liable for any damage resulting from handling or from contact with the above product.		
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