

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

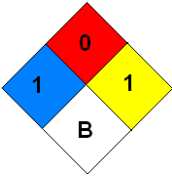
Trade Name	MET-L-COOL BIOCOOLPLUS
Manufacturer/Supplier	ITW Chemin, IW INDIA LIMITED
Address	Plot No: 34-37, Phase- 2, IDA, APIIC, Pashammylaram, Medak Dist- 502307, INDIA
Phone Number	+91 8455 224700/01
Fax Number	+91 8455 224705
Emergency Cell Number	+91-9000031515
E-Mail	chemininfo@itwchemin.com
Website	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
Hydro treated Heavy Naphthenic Distillate	64742-52-5	30-50%	ACGIH: TWA 5mg/m3	
Ethoxylated Fatty alcohol	29781-81-5	1-15%		R36
Fatty acid alkonalamide		5-15%	ACGIH: TWA 5 mg/m3	R 36/R38
Chlorinated Hydrocarbons	-	5-15%		
Butyl Diglycol	112-34-5	1-3%		R36

3. HAZARD IDENTIFICATION

Main Hazards	Irritant to eyes.
HMIS	

4. FIRST AID MEASURES

SYMPTOMS

ACTIONS

Eye contact	May be Mild irritation at the site of contact.	Bathe the eye with running water for 15 minutes. Consult a doctor
Skin contact	May be Irritation and redness	Wash immediately with plenty of soap and water
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

Personal Precautions	Material can create slippery conditions underfoot.
Environmental Precautions	Try to prevent the material from entering drains or rivers.

MATERIAL SAFETY DATA SHEET

Spillages	Contain and absorb using, sand or other inert material. Transfer into suitable containers for recovery or disposal. Flush area with water.
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7. HANDLING 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. EXPOSURE CONTROLS/PERSONAL 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 goggles if there is a risk of eye contact.
Body Protection	Normal work wear.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid.
Color	Pale Yellow.
Odor	Faint Ammonia odor.
pH	9.0 – 10.0 at 5.0 % volume in water. (Typical)
Boiling Range/Point (°C)	Boils above 100.
Flash Point (PMCC) (°C)	> 100.
Solubility in Water	Miscible.
Density	0.980 - 1.020 (measured as kg/liter)
Auto-flammability (°C)	Above 200.
NOTE:	<i>The above data are typical values and cannot be inferred as specifications</i>

10. STABILITY AND REACTIVITY

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 INFORMATION

Routes of exposure	Refer to section 4 of MSDS for routes of exposure and corresponding symptoms
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12. ECOLOGICAL INFORMATION

Mobility	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. 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 INFORMATION

MATERIAL SAFETY DATA SHEET

ADR/RID	UN no: -
	Shipping name: " NOT SUBJECT TO ADR"
IMDG/ IMO	UN no: -
	Not classified
IATA/ICAO	UN no: -
	Not classified

15. REGULATORY INFORMATION

Hazard Symbols	IRRITANT
Risk phrases used in Sec. 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 user's 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 INFORMATION

Product Use	For industrial use only. Metal Working Fluid
MSDS first issued	May 10, 2013
MSDS data revised, Ref. No.	Nil
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 shall not be held liable for any damage resulting from handling or from contact with the above product.