

# MATERIAL SAFETY DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION

Trade Name	BIOCOOL 100
Manufacturer/Supplier	ITW SIGNODE INDIA LIMITED
Address	Plot No: 34-37, Phase- 2, IDA, APIIC, Pashamylaram. Medak, Dist- 502307, INDIA
Phone Number	+91 08455 226055/226089
Fax Number	+91 08455 226336

## 2. COMPOSITION/INFORMATION ON THE COMPONENTS

Hazardous components as per OSHA,S HAZARD COMMUNICATION STANDARD  
29CFR 1910.1200

Component Name	CAS#	Concentration	Exposure Limits
ALKANOLAMINES	102-71-6	5- 20%	ACGIH: 5 mg/cu.M
Light naphthanic, chemically neutralized oil	64742-52-5	20-40%	ACGIH: 5 mg/cu.M

## 3. HAZARD IDENTIFICATION

Main Hazards	Irritating to eyes and skin.
Health Effects – Eyes	Liquid may cause pain, transient irritation and superficial corneal effects.
Health Effects – Skin	Slight irritant. Diluted product - Repeated or prolonged contact may produce defatting of the skin leading to irritation and dermatitis.
Health Effects – Ingestion	Swallowing may have the following effects:- irritation of mouth, throat and digestive tract.
Health Effects – Inhalation	Diluted product - Exposure to mist may have the following effects:- Some cases of respiratory problems arising from continuous use have been reported.

## 4. FIRST AID MEASURES

First Aid – Eyes	Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.
First Aid – Skin	Wash skin with soap and water. Apply a reconditioning skin cream.
First Aid – Ingestion	Wash out mouth with water. Do not induce vomiting. Obtain medical attention.
First Aid – Inhalation	Diluted product - Remove from exposure.

## 5. FIRE FIGHTING MEASURES

Extinguishing Media	Use foam, dry chemical or carbon dioxide.
Unsuitable Extinguishing Media	Do not use water jet.

<b>Special Hazards of Product</b>	This product may give rise to hazardous fumes in a fire.
<b>Protective Equipment for Fire-Fighting</b>	Wear self contained breathing apparatus.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Material can create slippery conditions underfoot.
<b>Environmental Precautions</b>	Try to prevent the material from entering drains or water courses.
<b>Spillages</b>	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. HANDLING AND STORAGE

<b>Handling</b>	Use only at the dilution specified. See label or technical data sheet.
<b>Storage</b>	Storage temperature should be controlled to between 5 and 40 °C.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Engineering Control Measures</b>	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.
<b>Respiratory Protection</b>	Respiratory protection not normally required.
<b>Hand Protection</b>	Concentrated product - PVC or rubber gloves.  Diluted product - Use a good quality barrier cream.
<b>Eye Protection</b>	Chemical goggles if there is a risk of eye contact.
<b>Body Protection</b>	Normal work wear.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Thick Liquid.
<b>Color</b>	Pale yellow clear liquid.
<b>Odor</b>	Faint ammonia odor .
<b>pH</b>	9.0 – 10.0 at 5.0 % volume in water. (typical)
<b>Boiling Range/Point (°C)</b>	Boils above 100.
<b>Flash Point (PMCC) (°C)</b>	Exceed 100.
<b>Solubility in Water (kg/m3)</b>	Miscible.
<b>Density (kg/m3)</b>	1.0 (measured as kg/liter)
<b>Auto-flammability (°C)</b>	Above 150.
<b>Viscosity (CSt)</b>	Mobile liquid at ambient temperatures. ( 50- 60 CST @37.8C)

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable under normal conditions.
<b>Conditions to Avoid</b>	High temperatures.
<b>Materials to Avoid</b>	Strong oxidizing agents. Strong acids.
<b>Hazardous Decomposition Products</b>	After evaporation of water, combustion will generate: oxides of nitrogen. ammonia. smoke, possibly thick and choking, resulting in zero visibility.

## 11. TOXICOLOGICAL INFORMATION

<b>Acute Toxicity</b>	Low order of acute toxicity. (ORAL Ld50 > 2000mg/Kg body weight)
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## 12. ECOLOGICAL INFORMATION

<b>Mobility</b>	The product will leach into soil. The product is involatile and water soluble and will partition to the aqueous phase.
<b>Persistence/Degradability</b>	The product is expected to be partially or slowly biodegradable.

## 13. DISPOSAL

<b>Product Disposal</b>	Incineration. Dispose of in accordance with all applicable local and national regulations.
<b>Container Disposal</b>	Labels should not be removed from containers until they have been cleaned. Dispose of containers with care. Do not incinerate closed containers.

## 14. OTHER INFORMATION

<b>MSDS first issued</b>	10 May 2004
<b>MSDS data revised, Ref no</b>	; <b>MF/009</b>
<b>Product Use</b>	For industrial use only. <b>Metal working Fluid.</b>

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