SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Trade Name	**MET-L-COOL BIOCOOL AS-2**
Use of substance	Water Soluble Metal Working Fluid
Manufacturer/Supplier	ITW Chemin, ITW INDIA PRIVATE LIMITED
Address	Plot No: 34-37, Phase- 2, IDA, TSIIC, Pashammylaram, Sangareddy Dist- 502307, INDIA
Phone Number	+91 8455 224700/01
Fax Number	+91 8455 224705
Emergency Cell Number	+91000 12393
E-Mail	chemininfo@itwchemin.com
Website	www.itwchemin.com

2. HAZARD IDENTIFICATION

GHS label Element:

Hazard statements: H319: Causes serious eye irritation
H315: Causes skin irritation.

Hazard Pictogram: GHS07: Exclamation mark

Signal Word: Warning

Precautionary statements:

P102: Keep out of reach of children
P240: Ground/Bond container and receiving equipment.
P243: Take precautionary measures against static discharge.
P261: Avoid breathing dust/fumes/gas/mist/vapors/spray.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P303+361+353: If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312: Call if you feel unwell.
P403+233: Store in a well-ventilated place. Keep container tightly closed.

Other Hazards: This product is not identified as a PBT/vPvB substance.

3. COMPOSITION/INFORMATION ON THE COMPONENTS

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

Component Name	CAS#	Concentration
Light Naphthenic Oil	64742-52-5	45-60%
Amphoteric Surfactant Blend	90170-43-7	25-35%
Tolytriazole	29385-43-1	0.5-2.0%
Butyl Carbitol	112-34-5	0.5-3.0%
Chlorinated olefin	----	8-10 %
Boric Acid Compound	----	8-15 %

4. FIRST AID MEASURES

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

5. FIRE FIGHTING MEASURES

Extinguishing Media	Use foam, dry chemical or carbon dioxide.
Specific hazards arising from the chemical	In combustion emits toxic fumes of carbon dioxide / carbon monoxide.
Advice for fire-fighters	Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.
Unsuitable Extinguishing Media	Do not use water jet

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Material can create slippery conditions underfoot.
Environmental Precautions	Try to prevent the material from entering drains or rivers.
Methods and material for containment and cleaning up	Contain and absorb using, sand or other inert material. Transfer into suitable containers for recovery or disposal. Flush area with water.

7. HANDLING AND STORAGE

Handling	Use only at the dilution specified. See label or technical data sheet.
Storage	Coolant tends to freeze at low temperatures. If frozen warm up completely and stir thoroughly before use. Inside storage is recommended and it should be stored out of direct sunlight/heat or fire. To avoid the cross contamination, always close the barrel/pail properly after usage. Exposure to sunlight during receipt or storage for few days will not affect the performance of the product

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters	DNEL / PNEC No data available.
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.
Individual protection measures, such as personal protective equipment	Use Requisite PPEs while handling
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

Appearance (physical state, color, etc.).	Amber Color Liquid
Odor	Mild odor.
Viscosity	Mobile liquid at ambient temperatures
pH	9.0 – 10.0 at 5.0 % volume in water. (Typical)
Melting Point/Freezing point	Not Applicable
initial boiling point and boiling range.	Boils above 100 ºC.
flash point.	Exceed 100ºC.
evaporation rate.	Not Applicable

flammability (solid, gas).	Not Applicable
upper/lower flammability or explosive limits.	Not Applicable
vapor pressure.	Not Applicable
vapor density.	Not Applicable
relative density.	0.98±0.02
solubility(ies).	Miscible in water
Partition coefficient: n-octanol/water.	Not Applicable
Auto ignition temperature.	Above 200^0C
Decomposition temperature.	Not Applicable
NOTE:	The above data are typical values and cannot be inferred as specifications

10. STABILITY AND REACTIVITY

Reactivity	Stable under recommended transport or storage conditions
Chemical stability	Stable under normal condition
Possibility of Hazardous reaction	Hazardous reaction not occur under normal transport or storage condition
Condition to avoid	Heat
Incompatible material	Strong oxidizing agents. Strong reducing agents.
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

outs of exposure	Refer to section 4 of SDS for routes of exposure and corresponding symptoms

12. ECOLOGICAL INFORMATION

Eco toxicity	No data available
persistence and degradability	The product is expected to be partially or slowly biodegradable
Bio accumulative potential	No bioaccumulation potential.
Mobility in soil.	The product will leach into soil. The product is non- volatile and water- soluble and will partition to the aqueous phase.
Other adverse effects	....

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

UN number	Not classified
UN proper shipping name	Shipping name: “NOT SUBJECT TO ADR”
Transport hazard class(es)	--

Packing group	Not classified
Environmental hazards	Environmentally Hazard: No Marine Pollutant: No
Special precautions for user	--

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture	No significant Hazard
Chemical Safety Assessment	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
SDS first issued	February 2017
SDS Revised on/Rev #	Sep'19, REV : 03
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.