

MATERIAL SAFETY DATA SHEET

1. IDENTITY OF MATERIAL

PRODUCT NAME : Semi-Synthetic Coolant for general Machining
 SYNONYMS : NAFFCOOL # 2115AL
 CHEMICALS FAMILY : Lubricant
 FORMULA : Proprietary

2. COMPOSITION INGREDIENTS

MATERIAL	%	CAS NUMBER	TLV (Unit)	OSHA PEL
Mineral Oil	< 20	-----	-----	-----
KOH-45% LIQUID	< 5,0	1310-58-3	2 mg/m ³	2 mg/m ³
FUNGICIDE & BICIDE	< 1,0	-----	-----	-----

Other ingredients are lubricity, emulsifier, extreme pressure, corrosion inhibitors, surfactants, polymer, etc.

HAZARDOUS SPECIFICATIONS

PARAMETERS	YES	NO
Flammable Material		X
Explosive Material		X
Combustible Liquid		X
Unstable Material		X
Oxidizer		X
Organic Peroxide		X
Corrosive Material		X
Skin Hazard		X
Eye Hazard	X	
Highly Toxic Agent		X
Carcinogen		X
Reproductive Toxic		X
Nervous System Toxic		X
Compressed Gas		X

3. PHYSICAL DATA

Appearance	: Amber
Specific Gravity (H ₂ O=1)	: 1.05
Vapor Density	: NA
pH	: 9.20
Solubility in water	: Makes and emulsion & it is stable
Evaporation rate	: NA

4. REACTIVE DATA

Incapability (material to avoid)	: Strong acids, certain oxidizing agents, etc.
Hazardous Decomposition	: Possibly oxides of carbon, nitrogen, etc.
Condition to avoid	: None

5. TOXICOLOGICAL INFORMATION

Due to the chemical composition it is expected that the LD 50-value is significantly above 2000 mg/kg.

Empirical data on effects on humans :

In case of proper handling, no negative effects have become known so far.

6. ECOLOGICAL INFORMATION

Mineral oil / hydrocarbon product

7. HEALTH HAZARD DATA

	RATING	
INHALATION	0	Inhalation of mist working solution may cause irritation to mucous membrane.
SKIN CONTACT	0	May cause irritation.
SKIN ABSORPTION	0	Will not absorbed through the skin.
EYE CONTACT	1	May cause irritation to eyes.
INGESTION	0	Not harmful if taken in minute amount. May cause nausea or upset stomach.

EMERGENCY & AND FIRST AID PROSEDURE

EYES	: Immediately flush eyes with running water for a least 10 minutes. Get prompt medical attention.
SKIN	: Remove contaminated clothing and wash before reuse. Wash skin thoroughly with soap and water, then apply the soothing cream.
INHALATION	: Remove victim to fresh air.
INGESTION	: Give glass of water or milk to drink, followed by dilute vinegar or citrus juice.
NOTES TO PHYSICIAN	: None.

8. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL RELEASED OR SPILLED

Pick up uncontaminated spilled material and return it to the container. For the remaining material, flush with the plenty of water sanitary sewer or use an absorbing material to absorb the spill. Mop dry the area.

WASTE DISPOSAL METHOD

If there is no oil contamination the product can be disposed to sanitary sewer. The diluted working solution has pH of 9,2 (5% solution) and product contains no hazardous ingredients. However, follow federal, state and local regulations.

9. SPECIAL PRECAUTIONS

Other handling & storage condition : Keep from freezing. Store indoors at room temperatures during winter month. Follow normal precaution for alkaline materials.

FOR INDUSTRIAL USE ONLY