

PT. TANESHA WAHANA INDUSTRI

Komp. Business TangCity Blok. E/ 2
 Jl. Jend.Sudirman No.1 Tangerang

MATERIAL SAFETY DATA SHEET**I. IDENTITY OF MATERIAL**

PRODUCT NAME : NAFFCOOL NS#350 (Soluble Oil Coolant for General Machining)
 CHEMICAL FAMILY : Lubricant & Cooling
 FORMULA : Proprietary.

II. HAZARDOUS INGREDIENTS

MATERIAL	%	CAS NUMBER	TLV (Units)	OSHA PEL
Refined hydrotreated naphthenic oil	<60,0	64742-52-5	5 mg/M ³	5 mg/M ³
KOH 45% Liquid	0.6	1310-58-8	2 mg/M ³	2 mg/M ³
Other ingredients are emulsifier, lubricity additives, extreme pressure additives, defoamers, etc. This product does not contain chlorine, sulfur, phosphates, heavy metals, phenolic derivatives. Biocide & Fungicide	1.0	Proprietary		

Hazard Specifications

KNOWN HAZARDS UNDER 29 CFR 1910.1200			TLV. For final mixture, not established			
	YES	NO		YES	NO	
Combustible Liquid	X		Skin Hazard		X	NPFA HAZARD SIGNAL HEALTH :1 STABILITY :0 FLAMMBILYTY :1 SPECIAL :0
Flammable Material		X	Eye Hazard	X		
Pyrophoric Material		X	Toxic Agent		X	
Explosive Material		X	Highly Toxic		X	
Unstable Material		X	Sensitizer		X	
Waterreactive Material		X	Carcinogen		X	
Oxidizer		X	Reproductive toxin		X	
Organic Peroxide		X	Blood Toxin		X	
Corrosive Material		X	Lung Toxin		X	
Compressed Gas		X	Liver Toxin		X	
			Kidney Toxin		X	

III. PHYSICAL DATA

Boiling Point : N/A
 Specific Gravity : 0.8560
 Vapor Density : N/A
 Freezing point : N/A
 Solubility in Water : Form emulsion from 1-60% concentration
 Evaporation Rate : N/A
 Appearance : Reddish-brown Liquid

IV. HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE	TLV for this product is not established. Refer to the hazardous material list for individual ingredients TLV'S
EFFECT OF OVER EXPOSURE	Note: Data applies to the concentrate. Health Hazard Potential is reduce at use concentrations if applicable.
INHALATION	Inhalation of oil mist may cause respiratory irritation. Mist of diluted working solution may cause irritation to mucous membrane.
SKIN CONTACT	Prolong skin contact may cause irritation.
SKIN ABSORPTION	Product will not be absorbed through the skin.
EYE CONTACT	Direct contact of diluted or concentrated product may cause irritation.
INGESTION	Ingestion of diluted or concentration product may cause nausea, upset stomach, etc.

EMERGENCY AND FIRST AID PROCEDURES

EYES	Immediately flush with running water for at least 10 minutes. Get prompt medical attention.
SKIN	Remove contamination clothing and wash before reuse. Wash skin thoroughly with soap and water. Apply a shooting cream. If irritation persists, seek medical attention.
INHALATION	If inhaled strongly, remove the person to fresh air.
INGESTION	If swallowed, do not induce vomiting. Give water or milk to drink. Contact a physician immediately.
NOTES TO PHYSICIAN	None

V. REACTIVE DATA

STABILITY	Stable. Condition to avoid : Heat, spark and open flame.
INCOMPABILITY (Material to avoid)	Strong oxidants, acids, etc.
HAZARDOUS DECOMPOSITION PRODUCT	Incomplete combustion may result oxides of carbon and nitrogen. HAZARDOUS POLYMERIZATION : Will not occur.

VI. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED	Remove source of ignition. Pick up uncontaminated liquid and return it to the container. Treat as oil spill, dike the area, absorb the spill, sweep up and dispose the absorbent as per regulations. Residual spill can be washed with water and mop dry.
WASTE DISPOSAL METHOD	Diluted solution makes emulsion which should be chemically split using acid, coagulant, polymers, etc. Allow to separate oil and skim off the oil. Oil can be burned or hauled away and disposed as per regulations. Neutralize remaining liquid with alkaline material, dilute and dispose as per federal, state and local regulations.

VII. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION	Normally not required. If oil mist exceeds 5 mg/M ³ , use NIOSH approved mask.
VENTILATION	Local exhaust : Over working area
PROTECTIVE GLOVES	Oil impervious gloves. Eye Protection : Safety goggles.
OTHER PROTECTIVE EQUIPMENT	Oil resistant apron or equivalent.

VIII. SPECIAL PRECAUTIONS

PRECAUTION LABELING : Petroleum Oil – FOR INDUSTRIAL ONLY

OTHER HANDLING AND STORAGE CONDITIONS :

Do not get in eyes. Avoid prolonged or repeated skin contact. Avoid breathing oil mist. Store at moderate temperature out of direct sunlight, away from heat, open flame and spark. Keep container closed when not use.
