

## MATERIAL SAFETY DATA SHEET

### 1. IDENTITY OF MATERIAL

PRODUCT NAME : **Water Soluble Metalforming Operation**  
SYNONYMS : **NAFFCOOL NS-3300FG**  
CHEMICALS FAMILY : **Lubricant**  
FORMULA : **Proprietary**

### 2. COMPOSITION INGREDIENTS

MATERIAL	%	CAS NUMBER	TLV (Units)	OSHA PEL
GRAPHITE	< 20,0	1303-96-4	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>
BIOCIDE & FUNGICIDE	< 1,00		-----	-----

Other ingredients are extreme pressure additives, lubricity, surfactant, wetting agent, polymer, etc.

### 3. HAZARD SPECIFICATIONS

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

### 4. FIRE FIGHTING MEASURES

#### EXTINGUISHING MEDIA :

Foam, carbon dioxide, dry chemical, water mist.

**SPECIAL FIRE FIGHTING PROCEDURES:**

Do not use direct water stream

**UNUSUAL FIRE AND EXPLOSION HAZARDS :**

None

**5. PHYSICAL DATA**

Specific Gravity (H<sub>2</sub>O=1) : 1.16  
Vapour Density : NA  
Appearance & Odor : Black Liquid & No Odor  
Solubility in water : Makes an emulsion & it is stable  
pH 10% solution : 9.0 – 10.0

**6. REACTIVE DATA**

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

**7. HEALTH HAZARD DATA**

	RATING	
INHALATION	0	Inhalation of mist of working solution may cause irritation to mucous membrane.
SKIN CONTACT	0	May cause irritation
SKIN ABSORPTION	0	Will not be 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 & FIRST AID		
EYES	:	Immediately flush eyes with running water for at least 10 minutes Get prompt medical attention.
SKIN	:	Remove contaminated clothing and wash before reuse, Wash skin thoroughly with soap and water, then apply a soothing cream.
INHALATION	:	Remove victim to fresh air.
INGESTION	:	Give glass of water or milk to drink, followed by diluted 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 plenty of water to 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 9,00 (10% solution) and product contains no hazardous ingredients. However, follow federal, state and local regulations.

## 9. SPECIAL PRECAUTIONS

**Other Handling & Storage Conditions :** Keep from freezing. Store indoors at room temperatures during winter month. Follow normal precaution for alkaline materials.

**FOR INDUSTRIAL USE ONLY**