

Material Safety Data Sheet

Product Name : NONOX NH-500

Rev. No./Date : #0 / 2010. 4.08

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME	NONOX NH-500	PRODUNCT NO.	MS-383
USE	Therefore it has not only neutralizing effect for pH of condensate water but also oxygen scavenging effect for feed and boiler water.		
COMPANY NAME	PRIME TECH INTERNATIONAL CO., LTD.		
ADDRESS	GYEONGGI TECHNOPARK, sa-1 DONG, Sangnok-gu, Ansan-si, Gyeonggi-do, korea		
TELEPHONE NO.	82-31-500-4560		
FAX NO.	82-31-500-4562		
DEAPRTMENT	Technical & Research H./Q		

SECTION 2. COMPOSITION, INFORMATION ON INGREDIENTS

COMPONENTS	OTHER NAMES	CAS NUMBER	MOLECULAR FORMULA	PERCANTAGE
CARBONHYDRAZIDE		497-18-7		5 ~ 10
ETHANOLAMINE		141-43-5		Business Secrets
S1		-		Business Secrets

SECTION 3. HAZARDS IDENTIFICATION

NEFA PATING (SCALE : 0~4)	HEALTH	FIRE	REACTIVITY
	2	1	1
INHALATION	Not known		
SKIN CONTACT	May cause slight irritation, especially with repeated or prolonged exposure.		
EYE CONTACT	May cause some conjunctivitis.		
INGESTION	May cause vomit if much ingestion.		
CARCINOGEN STATUS	Not known		

SECTION 4. FIRST AID MEASURES

INHALATION	Remove patient to fresh air.
SKIN CONTACT	Wash immediately with plenty of water. Obtain medical advice if there are persistent symptoms.
EYE CONTACT	Irrigate the eye with water for 15minutes. If there is any irritation obtain medical

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	attention immediately.
INGESTION	Give to drink water. Obtain medical attention.

SECTION 5. FIRE FIGHTING MEASURES

FLASH POINT	Not determined
FLAMMABILITY	Not determined
AUTO FLAMMABLIT	Not determined
EXPLOSION HAZARD	Not determined
EXPLOSIVE LIMITS	Not determined
EXTINGUISHING MEDIA	Extinguish with waterspray. alcohol-resistant form, CO ₂ , dry chemical.
SPECAIL EXPOURE HAZARDS IN A FIRE	Dose not burn – aqueous solution. Decomposes in a fire giving off CO, PO _x , NO _x
SPECAIL PROTECTIVE EQUIPMENT FOR A FIRE	Firefighters, and others exposed, wear self contained breathing apparatus. Wear suitable protective clothing, gloves and eye/face protection.
EXTINGUISHING MEDIA WHICH MUST NOT BE USE FOR SAFETY REASONS	Not applicable

SECTION 6. ACCIDENTAL RELEASE EMASURES

PERSONAL PRECAUTION	Use personal protective equipment, effective dust mask.
ENVIRONMENTAL PRECAUTIONS	No special environmental precautions required.
METHODS FOR CLEANUP	Sweep up and shovel into suitable containers for disposal. The spillage should be contained with earth or sand and removed for disposal. Residues or small spillage should be hosed away completely with plenty of water.

SECTION 7. HANDLING AND STORAGE

HANDLING	Do not eat, drink or smoke whilst handling the product. Remove contaminated clothing immediately and launder before reuse. Wash hands after use. As with many organic powders flammable dust clouds may be formed. Avoid creating dust and keep away from sources of ignition.
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SOTRAGE	Keep in dark and fresh air.
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SECTION 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

ENGINEERING CONTROLS	Not known
RESPIRATORY PROTECTION	Niosh official respiratory organs
HAND PROTECTION	Rubber or plastic gloves.
EYE PROTECTION	Goggles.
SKIN PROTECTION	Lightweight protective clothing.
EXPOSURE LIMITS	Not known

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Colorless or light yellow liquid
ODOR	slight
pH	11.7 ±1.0 (Neat, 25°C)
SPECIFIC GRAVITY	1.02 ±0.05
SOLUBILITY	Able to dilute any ratio
BOILING POINT	Not exhibited.
FREEZING POINT	Not exhibited.
FLASH POINT	Not exhibited. (but, Ethanolamine : 185F (85°C))
VAPOR PRESSURE	Not exhibited.
VISCOSITY	Not exhibited.

SECTION 10. STABILITY AND REACTIVITY

CHEMICAL REACTIVITY	Stable at ambient temperatures.
CONDITIONS TO AVOID	Avoid wet, damp and humid conditions.
MATERIALS TO AVOID	Attacks many metals. Consult Solutia for specialist advice.
HAZARDOUS DECOMPOSITION PRODUCTS	Combustion products : CO, PO _x , NO _x

SECTION 11. TOXICOLOGICAL INFORMATION

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ACUTE ORAL TOXICITY	Not known (But, Ethanolamine : LD ₅₀ =1720mg/kg (oral, rat))
ACUTE DERMAL TOXICITY	Not known
IRRITANCY AND CORROSIVENESS	<ul style="list-style-type: none"> Not classified as irritating to the eyes. Not classified as irritating to the skin.
SENSITIZATION	Not known
SUBACUTE, SUBCHRONIC AND PROLONGED TOXICITY	Not available
EMPIRICAL DATA ON EFFECTS ON HUMANS	Not known
OTHER INFORMATION ON HEALTH EFFECTS	Not available

SECTION 12. ECOLOGICAL INFORMATION

PERSISTENCE IN THE ENVIRONMENT	Not known (But, Ethanolamine : LC ₅₀ > 300mg/kg (96hr))
BIOACCUMULATION	Not available
MOBILITY	Not available
AQUATIC TOXICITY	Not available
NOTE	Not available

SECTION 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations. In the UK disposal may be made to a licensed treatment/disposal site in accordance with the provisions of Environmental Protection Act 1990.

SECTION 14. TRANSPORT INFORMATION

UK ROAD/RAIL	Not classified as dangerous in the meaning of transport regulations.
IMDG	Not classified as dangerous in the meaning of transport regulations.
ICAO	Not classified as dangerous in the meaning of transport regulations.
ADR	Not classified as dangerous in the meaning of transport regulations.

SECTION 15. REGULATORY INFORMATION

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RISK PHRASES	None
SAFETY PHRASES	None

SECTION 16. OTHER INFORMATION

This information contains herein is to the best of our knowledge and belief accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee for results obtained and assume no responsibility for damages incurred by use of this product. It is the responsibility of the user to comply with all federal state and local laws and regulations.

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