

PRODUCT NAME : NAFFCOOL # 230AR**1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION**

IDENTIFICATION OF THE SUBSTANCE : NAFFCOOL # 230 AR
This is a Petroleum-derived complex substance
CHEMICAL FAMILY : Aliphatic, cycloparaffinic hydrocarbon
PRODUCT DESCRIPTION : Rust Preventives Liquid
COMPANY : PT. TANESHA WAHANAMAS
Tangerang City Business Park Blok E-2
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2. COMPOSITION/INFORMATION ON INGREDIENTS

HEALTH HAZARDOUS COMPONENT : SYBOL/R-PHRASE OR OEL	Wt%
Naptha (Petroleum), Hydrotreted Heavy Xn,R10,R65,R66	80-90
Additives	10-20

3. HAZARD IDENTIFICATION**HEALTH HAZARDS**

Harmful : may cause lung damage if swallowed
Repeated exposure may cause skin dryness or cracking

PHYSICAL & CHEMICAL HAZARDS/ FIRE & EXPLOSION HAZARDS

Moderate hazard. Liquids can release vapors that can form flammable mixture upon moderate heating to temperature at or above the flash point.
Static Discharge. Product can accumulated static charges which can cause an incendiary electrical discharge.

4. FIRST AID MEASURES**INHALATION :**

Using proper respiratory protection, immediately remove the affected victim from exposure. Administer artificial respiration if breathing is stopped. Keep it rest. Call for prompt medical attention.

SKIN CONTACT :

Flush with large amounts of water, use soap if available.
Remove grossly contaminated clothing, include shoes, and launder before re-use

EYE CONTACT :

Flush eyes with large amount water until irritation subsides. If irritation persists, get medical attention.

INGESTION : If swallowed, do not induce vomiting. Keep at rest, get prompt medical attention.

5. FIRE FIGHTING MEASURE**FIRE FIGHTING PROCEDURE :**

Use water spray to cool fire exposed surfaces and to protect personnel. Shut off fuel to fire.

Use foam, dry chemical, or water spray to extinguish fire.

SPECIAL FIRE PRECAUTION :

Avoid spraying water directly into storage containers due to danger of boilover.

See also Section 4 "FIRST AID MEASURE" as well as Section 9 "STABILITY AND REACTIVITY"

HAZARDOUS COMBUATION PRODUCTS :

No. unusual.

6. ACCIDENTAL RELEASE MEASURE**LAND SPILL :**

- Eliminate sources of ignition. Prevent liquid from entering sewers, watercourses, or low areas.
- Keep public away. Shut off source if possible to do so without hazard.
- Contain spilled liquid with sand or earth.
- Recovery by pumping (use an explosion proof or hand pump) or with a suitable absorbent.
- Consult an expert on disposal of recovered material insure conformity to local disposal regulations.

WATER SPILL :

- Eliminate sources of ignition and request other shipping to stay clear.
- Notify port or relevant authority and keep public away. Shut off source if possible to do so without hazard.
- Remove from surface by skimming or with suitable absorbents. If swallowed by local authorities and environmental agencies sinking and/or suitable dispersants may be used in non confined waters.

7. HANDLING & STORAGE

STORAGE TEMPERATURE (DegC) : Ambient

TRANSPORT TEMPERATURE (DegC) : Ambient

LOADING/ UNLOADING TEMPERATURE (DegC) : Ambient

STORGE/ TRANSPORT PRESSURE (kPa) : Atmospheric

STORAGE/ HANDLING, GENERAL NOTES :

- *Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. Store in cool, well-ventilated place away from incompatible materials.*
- DO NOT handle, store or open near or open flame, sources of heat or source of ignition. Protect material from direct sunlight.
- DO NOT pressurize, cut, heat, or weld containers. Empty product containers may contain product residue. DO NOT reuse empty containers without commercial cleaning or reconditioning.

8. PHYSICAL & CHEMICAL PROPERTIES

These are indicative values only. Please refer also to the product data sheet.

PHYSICAL STATE : Liquid

COLOUR : Dark brown liquid

ODOR : Aliphatic hydrocarbon odor

FREEZ/MELT/POINT:	< -20 DegC	ASTM D97
BOLING PONT RANGE :	163-190 DegC	ASTM D86
FLASH PONT, MINIMUM	46 DegC	ASTM D56
AUTOIGNITION TEMPERATURE	>200 DegC	
VAPOR PRESSURE (20 DegC)	0.183 kPa	
DENSITY (15 DegC)	0.771 Kg/dm ³	ASTM D4052
SOLUBILITY IN WATER (20 DegC)	<0.10 Wt%	
VISCOCITY (25 DegC)	1.33 mm ² /s	ASTM D445
MOLECULAR WEIGHT	143	Calculated

9. STABILITY & REACTIVITY

HAZARDOUS POLYMERIZATION : NO
 STABILITY : Stable
 CONDITIONS TO AVOID INSTABILITY : Not Applicable
 MATERIALS & CONDITIONS TO AVOID (INCOMPABILITY) : Strong oxidizing agents.
 HAZARDOUS DECOMPOSITION PRODUCTS : None

10. ECOLOGICAL INFORMATION

ENVIRONMENTAL MOBILITY

This product is highly volatile and will rapidly evaporate to air if released in to water.

ENVIRONMENTALY DEGRADABILITY

This product biodegrades rapidly and is "readily" biodegradable according to OECD guidelines.

This product can degrade rapidly in air.

This substance is expected to be removed in a wastewater treatment facility.

ECOTOXICITY & BIOACCUMULATION

No acute toxicity to aquatic organisms is expected at maximum water solubility of this material. Long term adverse effect to aquatic organisms are not expected.

-----END MSDS

This information relates only to the specific material designated and may not be valid for such material use in combination with any other materials or in any process. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.