

# MATERIAL SAFETY DATA SHEET <sup>2013</sup>

PRODUCT NAME: **NAFFCOOL # 2332 AR**

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## 1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

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IDENTIFICATION OF THE SUBSTANCE: NAFFCOOL # 233 AR

CHEMICAL FAMILY: Petroleum- Hydrocarcon Solvent

PRODUCT DESCRIPTION : Rust Preventive Oils

COMPANY: PT. TANESHA WAHANAMAS

Tangerang City Business Park Blok E-2  
Jend. Sudirman No.1 Cikokol Tangerang  
Phone: +6221-55782341  
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## 2. COMPOSITION/INFORMATION ON INGREDIENTS

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COMPOSITION	CAS NUMBER	% BY WEIGH
Hydrocarbon Solvent	6472-52-5	40-60
Additives		30-40

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## 3. HAZARD IDENTIFICATION

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### 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 have accumulated static charges which can cause an incendiary electrical discharge.

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## 4. FIRST AID MEASURES

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### 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.

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## SKIN CONTACT:

Flush with copious 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.

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## 5. FIRE FIGHTING MEASURE

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### 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 boil over.

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

### HAZARDOUS COMBUATION PRODUCTS:

No. unusual.

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## 6. ACCIDENTAL RELEASE MEASURE

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### 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.

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## 7. HANDLING & STORAGE

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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.
- Store in clean and dry conditions away from other combustible materials, heat and direct sunlight.

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## 8. PHYSICAL & CHEMICAL PROPERTIES

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

PHYSICAL STATE : Liquid  
COLOUR : Light brown  
ODOR : No characteristic odor

FREEZ/MELT/POINT:	< -20 DegC	ASTM	D97
BOLING POINT RANGE :	163-190 DegC	ASTM	D86
FLASH POINT, MINIMUM	37 DegC	ASTM	D56
DENSITY (15 DegC)	0.790 Kg/dm <sup>3</sup>	ASTM	D4052
SOLUBILITY IN WATER (20 DegC)	<0.10 Wt%		
VISCOCITY (40 DegC)	1,10 mm <sup>2</sup> /s	ASTM	D445

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## 9. STABILLITY & REACTIVITY

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

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## 10. ECOLOGICAL INFORMATION

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### 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.

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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.