

# MATERIAL SAFETY DATA SHEET

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## HMIS HAZARD RATING

HEALTH	2
FIRE	0
REACTIVITY	0
PERSONAL PROTECTION	X

Date of Review: April 16, 2009  
Date of Preparation: May 15, 2003

Revised: February 9, 2006  
By: R. Lauterbach

## SECTION 1: PRODUCT IDENTIFICATION

Product Name: **NOX RUST® 5182**  
Chemical Family: Water, Additive Blend  
Material Usage: Corrosion Preventive/Lubricant Compound

EMERGENCY OVERVIEW: Water-based product. Alkaline liquid; may be irritating to eyes and skin. Refer to Section 3 for health effects and to Section 5 for fire hazard data.

## SECTION 2: HAZARDOUS INGREDIENTS

Component	Wt%	Recommended Exposure Limits (TWA)
Petroleum Oil (Severely solvent-refined and/or severely hydrotreated) CAS #64741-96-4 and/or #64742-52-5	2-7	OSHA PEL: Not Established ACGIH TLV: 5 mg/m <sup>3</sup> (mists)
Petroleum Wax CAS #8002-74-2	5-15	OSHA PEL: None Established ACGIH TLV: 2 mg/m <sup>3</sup> (fumes)
Petroleum Asphalt CAS #8052-42-4	1-4	ACGIH TLV: 5 mg/m <sup>3</sup> (for fumes) NIOSH: 5 mg/m <sup>3</sup> (ceiling limit)
Morpholine CAS #110-91-8	2-5	OSHA PEL: 20 ppm (skin) STEL: 30 ppm
Sodium Hydroxide CAS #1310-73-2	<1	OSHA PEL: 2 mg/m <sup>3</sup> ACGIH TLV: 2 mg/m <sup>3</sup>
<sup>[1]</sup> Carbon Black CAS #1333-86-4	<1	OSHA PEL: 3.5 mg/m <sup>3</sup> ( <sup>[2]</sup> nuisance dust) ACGIH TLV: None Established

<sup>[2]</sup> This component poses a hazard only if a dust is formed, i.e., by sawing, sanding, drilling, etc.

### SECTION 3: HEALTH HAZARD INFORMATION

**Primary Routes of Entry:** Skin absorption, inhalation.

**Acute Effects:** May cause severe eye irritation and reversible skin irritation. Prolonged skin exposure may cause dermatitis or oil acne. Breathing mists may cause pulmonary irritation or dizziness. Excessive inhalation may produce dizziness, nausea, headache, and incoordination.

**Chronic Effects:** None

**Special Remarks:** None

**Carcinogenicity:** Asphalt solutions are considered to be animal carcinogens by IARC. Carbon black has been classified by IARC as a Category 2B (known animal carcinogen, possible human carcinogen) material. This was based on the results of rat inhalation studies of carbon black, despite the lack of parallel evidence on humans or other animal species. Carbon black is unlikely to be released from either the wet or the dry coating.

**Pre-Existing Medical Conditions Aggravated by Exposure:** Exposure may aggravate pre-existing respiratory or skin problems.

### SECTION 4: FIRST AID PROCEDURES

**Inhalation:** Move victim to fresh air and call emergency medical care. If not breathing, give artificial respiration; if breathing is difficult, give oxygen.

**Eyes:** In case of contact with material, immediately flush eyes with running water for at least 15 minutes. Seek immediate medical attention.

**Skin:** Wash skin with soap and water. Remove and isolate contaminated clothing and shoes at the site.

**Ingestion:** DO NOT INDUCE VOMITING. Consult a physician. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.

### SECTION 5: FIRE AND EXPLOSION HAZARD DATA

**Flash Point:** Not Applicable (Water Based Fluid)

**Explosive Limits:** LEL = Not Determined UEL = Not Determined

**EXTINGUISHING MEDIA:**

Small Fires: Dry chemical, CO<sub>2</sub>, water spray, or regular foam.

Large Fires: Water spray, fog, or regular foam.

**Special Firefighting Protection/Emergency Action:** Fire may produce irritating or poisonous gases. Positive pressure self-contained breathing apparatus (SCBA) and structural firefighters' protective clothing will provide limited protection. If runoff from fire control occurs, notify the appropriate authorities.

**Unusual Fire/Explosion Hazards:** None

**Products of Combustion:** Carbon monoxide, carbon dioxide, miscellaneous hydrocarbons.

### SECTION 6: SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

**Steps to be taken in case Material is Released or Spilled:** Shut off ignition sources; no flares, smoking or flames in hazard area. Stop leak if you can do it without risk.

**Small Spills:** Take up with sand or other noncombustible absorbent material and place into containers for later disposal.

**Large Spills:** Dike far ahead of liquid spill for later disposal.

## SECTION 7: SAFE HANDLING INFORMATION

**Precautions To Be Taken In Handling/Storage:** Store in cool, well-ventilated area. Keep away from flames, sparks or hot surfaces. Never use a torch to cut or weld on or near container. Empty containers can contain explosive vapors.

**Other Precautions:** Never wear contaminated clothing. Launder or dry clean before wearing. Discard oil-soaked shoes. Wash thoroughly with soap and water (waterless hand cleaner may be helpful in removing residues) after use and before smoking or eating. Avoid excessive skin contact.

## SECTION 8: EXPOSURE CONTROLS

**Respiratory Protection:** NIOSH-approved respirator for organic vapor and mist to control exposure where ventilation is inadequate.

**Ventilation:** General and local exhaust.

**Personal Protective Equipment:** Protective Gloves: Impervious gloves (Viton, PVOH, etc.)

Eye Protection: Safety glasses with sideshields or chemical goggles.

Other Protective Clothing or Equipment: If splashing is anticipated, wear rubber apron and boots or other protective equipment to minimize contact.

## SECTION 9: REACTIVITY HAZARD DATA

**Stability:** Stable

**Incompatibility:** Strong acids, oxidizing agents.

**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, miscellaneous hydrocarbons.

**Hazardous Polymerization:** Will not occur.

## SECTION 10: PHYSICAL AND CHEMICAL PROPERTIES

Color:	Black
Appearance:	Viscous Liquid
Odor:	Amine Type
Boiling Point (initial):	212 °F.
Evaporation Rate (water=1):	1
Vapor Pressure (mmHg @ 20 °C):	Not Determined
Vapor Density (air=1):	>1
Solubility in Water:	Miscible
Specific Gravity:	0.98
pH:	9-11
Percent Volatile by Volume:	68

## SECTION 11: DISPOSAL CONSIDERATIONS

**Waste Disposal Methods:** Dispose of in accordance with state, local and federal regulations. Materials may become a hazardous waste through use. If permitted, incineration may be practiced. Consider recycling solvent.

**SECTION 12: REGULATORY INFORMATION**

**Volatile Organic Content:** (Calculated Values)

VOC per gallon: 0.3 lbs/gal  
VOC per gallon minus exempt solvents & water: 0.8 lbs/gal

**EPA Hazardous Waste Number(s) (40 CFR Part 261):** Not Applicable

**EPA Hazard Category (40 CFR Part 370):** DELAYED (CHRONIC)

**SARA TITLE III:**

This product contains the following TOXIC CHEMICALS subject to the Reporting Requirements of Sec. 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986, and of 40 CFR Part 372:

Chemical	CAS No.	Wt%
NONE		

This product contains the following EXTREMELY HAZARDOUS SUBSTANCE(S) subject to Emergency Planning Requirements under Sec. 301-303 (40 CFR Parts 300 and 355) and Emergency Release Notification Requirements under Sec. 304:

Chemical	CAS No.	Wt%	RQ/TPQ Lbs
NONE			

This product contains the following (CERCLA LIST) HAZARDOUS SUBSTANCE(S) subject to Emergency Release Notification Requirements under Sec. 304 (40 CFR Part 302):

Chemical	CAS No.	Wt%	Final RQ Lbs
NONE			

**CALIFORNIA PROPOSITION 65:**

This product contains chemicals that are identified by the State of California under the Safe Drinking Water and Toxic Reinforcement Act of 1986 ("Proposition 65") as either a carcinogenic or reproductive hazard:

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