

MATERIAL SAFETY DATA SHEET

DAUBERT CHEMICAL COMPANY

4700 SOUTH CENTRAL AVENUE
CHICAGO, ILLINOIS 60638
TELEPHONE: (708) 496-7350
FAX: (708) 496-7367

EMERGENCY CONTACT:
CHEMTREC (800) 424-9300

HMIS HAZARD RATING

Health	1
Fire	1
Reactivity	0
Personal Protection	D

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By: R. Lauterbach

SECTION I: PRODUCT IDENTIFICATION

Product Name: **NOX RUST® VCI-105**
Chemical Family: Petroleum Oil, Additive Blend
Material Usage: Corrosion Preventive/Lubricant Compound

EMERGENCY OVERVIEW: Petroleum-based product. When product burns it releases typical hydrocarbon products of combustion. Refer to Section 3 for health effects and to Section 5 for fire hazard data.

SECTION II: 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	30-40	OSHA PEL: Not Established ACGIH TLV: 5 mg/m ³ (mists)
Light Naphthenic Hydrotreated Distillates CAS #64742-53-6	40-45	OSHA PEL: Not Established ACGIH TLV: 5 mg/m ³ (mists)
Lubricating Oils (petroleum), hydrotreated C15-30, neutral oil based CAS #72623-86-0	10-15	OSHA PEL: Not Established ACGIH TLV: 5 mg/m ³ (mists)
2-Ethylhexoic acid CAS #149-57-5	2-6	None Established
Morpholine CAS #110-91-8	1-4	OSHA PEL: 20 ppm (skin) STEL: 30 ppm

SECTION III: HEALTH HAZARD INFORMATION

Primary Routes of Entry: Inhalation, skin absorption.

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: Not determined.

Carcinogenicity: None of the components of this product are listed as carcinogens by NTP, IARC, or OSHA 1910(Z).

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

SECTION IV: 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 V: FIRE AND EXPLOSION HAZARD DATA

Flash Point: 250 °F. Min. (COC)

Explosive Limits: LEL = Not Determined UEL = Not Determined

EXTINGUISHING MEDIA:

Small Fires: Dry chemical, CO₂, water spray, or regular foam.

Large Fires: Water spray, fog, or regular foam. Move container from fire area if you can do it without risk. Apply cooling water to sides of containers that are exposed to flames until well after fire is out. Stay away from ends of tanks.

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.

Unusual Fire/Explosion Hazards: Flammable/combustible material; may be ignited by heat, sparks or flames. Container may explode in heat of fire.

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

SECTION VI: 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 VII: 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 VIII: 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 IX: 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 X: PHYSICAL AND CHEMICAL PROPERTIES

Color:	Amber
Appearance:	Oily liquid
Odor:	Amine-like
Boiling Point (initial):	>300 °F.
Evaporation Rate (Butyl Acetate=1):	>1
Vapor Pressure (mmHg @ 20 °C):	Not Determined
Vapor Density (air=1):	>1
Solubility in Water:	Negligible
Specific Gravity:	0.91
pH:	Not Applicable
Percent Volatile by Volume:	15

SECTION XI: 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.

SECTION XII: REGULATORY INFORMATION

Volatile Organic Content: (Calculated Values)

VOC per gallon: 1.1 lbs/gal
VOC per gallon minus exempt solvents and water: 1.1 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 may contain trace quantities of the following 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:

Chemical	CAS No.	Estimated Concentration %
NONE		

Although the information contained herein is believed to be reliable, it is furnished without warranty of any kind. This information is not intended to be all-inclusive as to the manner and conditions of use, handling, and storage.