

# 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	2
REACTIVITY	0
PERSONAL PROTECTION	D

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By: R. Lauterbach

## SECTION I: PRODUCT IDENTIFICATION

Product Name: **NOX-RUST® R-563-146-2**  
Chemical Family: Petroleum Solvent/Additive Blend  
Material Usage: Corrosion Preventive Compound

**EMERGENCY OVERVIEW:** Petroleum solvent-based product with solvent odor. Combustible liquid; 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

<u>Component</u>	<u>Wt %</u>	<u>Recommended Exposure Limits (TWA)</u>
Oxidized Aliphatic Petroleum Fraction CAS #64743-01-7	20-25	OSHA PEL: 2 mg/m <sup>3</sup> (wax fumes)
<sup>2</sup> Calcium Carbonate CAS #1317-65-3 and/or CAS #471-34-1	35-40	OSHA PEL: 5 mg/m <sup>3</sup> (respirable fraction) OSHA PEL: 15 mg/m <sup>3</sup> (total dust) ACGIH TLV: 10 mg/m <sup>3</sup> ( <sup>1</sup> nuisance dust)
Aliphatic Petroleum Solvent CAS #64742-88-7 and/or #64742-47-8 and/or #8052-41-3	15-20	OSHA PEL: 100 ppm ACGIH TLV: 100 ppm ACGIH STEL: 200 ppm
Petroleum Oil (Severely solvent refined and/or severely hydrotreated) CAS #64741-96-4 and/or CAS #64742-52-5	15-20	ACGIH TLV: 5 mg/m <sup>3</sup> (for mists)
Organophilic Clay CAS #71011-27-3	3-6	OSHA PEL: 15 mg/m <sup>3</sup> ( <sup>1</sup> nuisance dust)
Diethylene Glycol Methyl Ether CAS #111-77-3	3-5	OSHA PEL (SKIN): 100 ppm
Carbon Black CAS #1333-86-4	<1	OSHA PEL: 3.5 mg/m <sup>3</sup> ( <sup>1</sup> nuisance dust)

<sup>1</sup> This component poses a hazard only if a dust is formed, i.e., by sawing, sanding, drilling, etc.

<sup>2</sup> See Section 3

### SECTION III: HEALTH HAZARD INFORMATION

**Primary Routes of Entry:** Inhalation, skin absorption.

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

**Chronic Effects:** Not Determined

**Carcinogenicity:** Calcium carbonate, the product itself, is not listed by NTP, IARC, or OSHA as a carcinogen. There are no reported health effects associated with prolonged exposure to pure calcium carbonate. This product contains variable quantities of crystalline silica (quartz), which is considered a hazard by inhalation. IARC has classified crystalline silica as probably carcinogenic for humans (2A). This classification is based on the findings of laboratory animal studies that were considered to provide sufficient evidence and data from human epidemiological studies that were considered to provide limited evidence for carcinogenicity. Crystalline silica is also a known cause of silicosis, a noncancerous lung disease. NTP and OSHA have not classified crystalline silica as a carcinogen.

**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:** 105°F. Min. (TCC)

**Explosive Limits:** LEL = 0.6 UEL = 7.0

#### EXTINGUISHING MEDIA:

Small Fires: Dry chemical, CO<sub>2</sub>, 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. For massive fire in cargo area, use unmanned hose holder or monitor nozzles. If this is impossible, withdraw from area and let fire burn. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tank due to fire.

**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. Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind; keep out of low areas. Isolate for 1/2 mile in all directions if tank, rail car or tank truck is involved in fire. If runoff from fire control occurs, notify the appropriate authorities.

**Unusual Fire/Explosion Hazards:** Flammable/combustible material; may be ignited by heat, sparks or flames. Vapors may travel to a source of ignition and flash back. Container may explode in heat of fire. Vapor explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard.

**Products of Combustion:** Carbon monoxide, carbon dioxide, oxides of sulfur, 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: PHYSICAL AND CHEMICAL PROPERTIES

Color:	Black
Appearance:	Viscous Liquid
Odor:	Petroleum Solvent
Boiling Point (initial):	>300°F.
Evaporation Rate (n-Butyl Acetate=1):	<1
Vapor Pressure (mmHg @ 20°C):	3.4
Vapor Density (air=1):	>1
Solubility in Water:	Negligible
Specific Gravity:	1.16
pH:	Not Applicable
Percent Volatile by Volume:	23

## SECTION X: REACTIVITY HAZARD DATA

**Stability:** Stable

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

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

**Hazardous Polymerization:** Will not occur.

## SECTION XI: TOXICOLOGICAL INFORMATION

None known.

## SECTION XII: ECOLOGICAL INFORMATION

None known.

## SECTION XIII: 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 XIV: TRANSPORTATION INFORMATION**

For Air, Overseas, Totes and Tankers - UN 1268, Petroleum Distillates N.O.S., (Naphtha Solvent), 3, PG III

For Domestic use by ground - Rust Inhibitor, Non Regulated

**SECTION XV: REGULATORY INFORMATION**

VOLATILE ORGANIC CONTENT: (Calculated Values)

VOC per Gallon: 1.8 lbs/gal

VOC per Gallon Minus Exempt Solvents & Water: 1.8 lbs/gal

EPA HAZARDOUS WASTE NUMBER(S) (40 CFR PART 261): D001

EPA HAZARD CATEGORY (40 CFR PART 370):

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%
Diethylene Glycol Methyl Ether	111-77-3	3-5

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			

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

Chemical	CAS No.	Wt %	Final RQ Lbs
Aliphatic Petroleum Solvent	64742-88-7	15-20	100

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 %
Calcium Carbonate	1317-65-3	35-40

*Calcium carbonate contains small but detectable amounts of the following other naturally occurring chemicals that are known to the State of California to cause cancer, birth defects or other reproductive harm. This warning is provided in the absence of definitive testing to prove that these risks do not exist. These amounts are typical quantities and may vary slightly with different lots:*

<i>Arsenic</i>	<i>7440-38-2</i>	<i>1 ppm</i>
<i>Cadmium</i>	<i>7443-43-9</i>	<i>5 ppm</i>
<i>Lead</i>	<i>7439-92-1</i>	<i>2 ppm</i>
<i>Crystalline Silica</i>		<i>0.01-1.5%</i>

**SECTION XVI: OTHER INFORMATION**

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.