

Safety Data Sheet

Revision Date 02-23-2016
Revision Number 7

SECTION 1 Identification of the substance/mixture and of the company/undertaking

Product identification used on label

| | |
|---|--|
| Product identifier | 4084 NOX-RUST® 9900 |
| Details of the supplier of the safety data sheet | Daubert Cromwell 12701 S. Ridgeway Ave Alsip, IL 60803 708-293-7750 |
| Emergency telephone number | Chemtrec: (800) 424-9300 |
| Relevant identified uses of the substance or mixture and uses advised against | Corrosion Preventive Compound (water-based) |

SECTION 2 Hazards identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

GHS Hazard
Symbols



GHS Classification

Skin Corrosion/Irritation Category 2
Serious Eye Damage/Eye Irritation Category 2A

Signal Word

Warning

Hazard Statements

"DO NOT FREEZE"
Causes skin irritation.
Causes serious eye irritation.

Precautionary Statements

Prevention

Wash thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.

Response

IF ON SKIN: Wash with plenty of soap and water.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Specific treatment: None known
If skin irritation occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Take off contaminated clothing and wash before reuse.

SECTION 3 Composition/information on ingredients

| Chemical Name | CAS # | % |
|------------------------|----------|-------|
| 2-Dimethylaminoethanol | 108-01-0 | 1 - 5 |

NOX-RUST® 9900

Page 1 of 6

Safety Data Sheet

Revision Date 02-23-2016
Revision Number 7

Note: Specific chemical identities and/or exact percentages have been withheld as a trade secret.

SECTION 4 First aid measures

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|-----------------------|--|
| Inhalation | If symptoms are experienced remove source of contamination or move victim to fresh air and obtain medical advice. |
| Eyes | Immediately flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention and monitor the eye daily as advised by your physician. |
| Skin Contact | Wash with soap and water. Remove contaminated clothing, launder immediately, and discard contaminated leather goods. Seek medical attention if reaction is evident. |
| Ingestion | Do not induce vomiting and seek medical attention immediately. Provide medical care provider with this SDS. |
| Note to Doctor | Treat symptomatically. |

SECTION 5 Firefighting measures

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|---|--|
| Extinguishing media | Water-based. Not combustible as supplied. Use extinguishing media appropriate for surrounding fire. Use water fog, foam, dry chemical or carbon dioxide (CO ₂) to extinguish flames. |
| Fire and/or Explosion Hazards | Water-based. Material will not ignite or burn as supplied. |
| Fire Fighting Methods and Protection | Will not burn. Use appropriate methods for the surrounding fire. |
| Hazardous Combustion Products | Nitrogen containing gases, Toxic fumes |

SECTION 6 Accidental release measures

| | |
|--|---|
| Personal precautions, protective equipment and emergency procedures | Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section VIII of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits. |
| Methods and materials for containment and cleaning up | Collect and discard in accordance with local, state and national regulations. |

Safety Data Sheet

Revision Date 02-23-2016
Revision Number 7

SECTION 7 Handling and storage

Precautions for safe handling

Toxic or severely irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. As with all chemicals, good industrial hygiene practices should be followed when handling this material. Wash thoroughly after handling. Do not get in eyes, on skin and clothing. Ground and bond containers when transferring material. Keep in air-tight containers- material is hygroscopic. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous.

Conditions for safe storage, including any incompatibilities

Store in a cool dry place. Isolate from incompatible materials. Store in a cool place in original container and protect from sunlight. Store in tightly sealed original container. Keep from freezing.

Incompatible materials

Strong oxidizing agents

SECTION 8 Exposure controls/personal protection

Control parameters

Chemical Name

ACGIH TLV

ACGIH STEL

OSHA PEL

No exposure limits in vapor form

Engineering Measures

Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure. Engineering controls must be designed to meet the OSHA chemical specific standard in 29 CFR 1910. Ventilation is required to maintain operator exposure below published exposure limits. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Facilities storing or using this material should be equipped with an eyewash and safety shower.

Respiratory Protection

Proper ventilation (at a minimum) will be required when handling this product. Use respirators (NIOSH approved) only if ventilation cannot be used to eliminate symptoms or reduce the exposure to below acceptable levels. Follow a respiratory protection program that meets 29 CFR 1910.134 and ANSI Z88.2 requirements whenever work place conditions warrant the use of a respirator.

Eye Protection

Wear chemically resistant safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Do not wear contact lenses.

Skin Protection

Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Where contact is likely, wear chemical resistant gloves, a chemical suit, rubber boots, and chemical safety goggles plus a face shield.

Gloves

Chemically resistant gloves

Safety Data Sheet

Revision Date 02-23-2016
Revision Number 7

SECTION 9 Physical and chemical properties (Typical, not specification)

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|--|--------------------------------------|
| Physical State | Liquid |
| Color | Amber |
| Odor | Mild Amine Type |
| Odor Threshold | No data available |
| pH | 10.0 |
| Melting Point, °C | No data available |
| Boiling Point, °C | No data available |
| Flash Point | Not measurable (water-based, >200°F) |
| Evaporation Rate | No data available |
| Flammability (Solid, Gas) | No data available |
| Lower Flammable/Explosive Limit, % in air | No data available |
| Upper Flammable/Explosive Limit, % in air | No data available |
| Vapor Pressure | No data available |
| Vapor Density | >1 (Air=1) |
| Specific Gravity @ 25°C | 1.01 |
| Solubility in Water | Complete; 100% |
| Octanol/Water Partition Coefficient | No data available |
| Autoignition Temperature | No data available |
| Decomposition Temperature | No data available |
| Viscosity | 32 sec, Zahn |
| Volatiles, % by weight | 72 |
| VOC, lb/gal | 0.4 |
| VOC, grams/liter | 48.0 |
| VOC minus exempt solvents & water, lb/gal | 1.1 |

SECTION 10 Stability and reactivity

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| Chemical stability | Stable under normal conditions. Hazardous polymerization will not occur. |
| Possibility of hazardous reactions | Under normal conditions of storage and use, hazardous reactions will not occur. |
| Conditions to avoid | Contamination. Elevated temperatures. Freezing temperatures (will cause permanent damage). |
| Incompatible materials | Strong oxidizing agents |
| Hazardous decomposition products | Under normal conditions of use & storage, decomposition and hazardous decomposition products are unlikely. |

Safety Data Sheet

Revision Date 02-23-2016
Revision Number 7

SECTION 11 Toxicological information

Likely Routes of Entry Inhalation, Absorption, Skin contact, Eye contact
Target Organs Potentially Affected by Exposure Respiratory System
Chemical Interactions That Change Toxicity No chemical interaction known to affect toxicity.

Immediate (Acute) Health Effects by Route of Exposure

Inhalation Irritation Can cause severe respiratory irritation, dizziness, weakness, fatigue, nausea, headache and possible unconsciousness.
Inhalation Toxicity Can cause systemic damage (see "Target Organs")
Skin Contact Can cause severe irritation, defatting, and dermatitis. Irritation effects may last for hours or days but will not likely result in permanent damage.
Skin Absorption Harmful if absorbed through the skin. May cause severe irritation and systemic damage.
Eye Contact Can cause severe irritation. Eye contact may result in corneal injury. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. Temporary vision impairment (cloudy or blurred vision) is possible. Lachrymator.
Ingestion Irritation Severely irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea.
Ingestion Toxicity Harmful if swallowed.

Long-Term (Chronic) Health Effects

Carcinogenicity Not listed by ACGIH, IARC, NIOSH, NTP OR OSHA.
Inhalation Upon prolonged and/or repeated exposure, can cause severe respiratory irritation, dizziness, weakness, fatigue, nausea, headache and possible unconsciousness. Can cause systemic damage upon prolonged and/or repeated exposure (see "Target Organs")
Skin Contact Upon prolonged or repeated contact can cause severe irritation, defatting, and dermatitis. May cause lingering effects but not likely to result in permanent damage if the exposure is eliminated.
Skin Absorption Upon prolonged or repeated exposure, harmful if absorbed through the skin. May cause severe irritation and systemic damage.
Ingestion Under normal industrial usage conditions, ingestion is highly unlikely.

Component Toxicology Data

| Chemical Name | CAS Number | LD50/LC50 |
|------------------------|------------|--|
| 2-Dimethylaminoethanol | 108-01-0 | Dermal LD50 Rabbit > 1100 mg/kg Oral LD50 Rat = 1180 mg/kg Inhalation LC50 (4h) Rat = 6.09 mg/L |

SECTION 12 Ecological information

Overview No ecological information available
Mobility No data
Persistence No data
Bioaccumulation No data
Degradability No data

Safety Data Sheet

Revision Date 02-23-2016
Revision Number 7

Ecotoxicity Data

| Chemical Name | CAS Number | Aquatic EC50 Crustacea | Aquatic ERC50 Algae | Aquatic LC50 Fish |
|------------------------|------------|---|---------------------------------|--|
| 2-Dimethylaminoethanol | 108-01-0 | EC50 (48 hr) Water flea = 98 mg/L | LC50 (72 hr) Algae = 66 mg/L | LC50 (96 hr) Golden Orfe > 146.63 mg/L |

SECTION 13 Disposal considerations

| | |
|--|---|
| Waste Description for Spent Product | Spent or discarded material is a hazardous waste. |
| Disposal Methods | Dispose of in accordance with Local and National regulations. |
| Waste Disposal Code(s) | D001 |

SECTION 14 Transport information

| | |
|---|--------------------------------|
| Full shipping name for Export, Air, Sea (any quantity unless flash pt. >150°F) or vessels of 119 GL or more | Rust Inhibitor / Non-Hazardous |
| Domestic Ground in vessels < 119 gal. | Not Hazardous |

SECTION 15 Regulatory information

Status of formula components on selected national regulatory inventories:

| LIST | STATUS |
|--------------|--|
| TSCA | All components in this product are on the TSCA Inventory or exempt. |
| Canadian DSL | All chemical substances in this material are included on or exempted from listing on the Canadian DSL. |

| Chemical Name | CAS # | Regulation | Percent |
|--|----------|------------|-----------------------|
| 2-Dimethylaminoethanol | 108-01-0 | CERCLA | 1 - 5 RQ = 100 lbs |
| No 313-listed chemicals in this product. | | SARA 313 | |
| No SARA 302 EHS-listed chemicals in this product. | | SARA EHS | |

SECTION 16 Other information

| | |
|----------------------|---|
| Revision Date | 02-23-2016 |
| Disclaimer | 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. |
| Version | Original |
| Comments | Approved: J. Kump |