



HOUGHTON

# SAFETY DATA SHEET

Revision Date: 07-08-2015

Version 3

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

**Product Code(s):** 21422500-M  
**Product Name** RUST VETO 4225

**Recommended use** Corrosion inhibitor  
**Uses advised against** Any other purpose.

### **Manufacturer, Importer, Supplier**

Houghton International Inc.  
Madison & Van Buren Aves.  
Valley Forge, PA 19482  
Telephone: 610-666-4000 FAX: 610-666-1376  
Website: www.houghtonintl.com  
Customer Service: 888-459-9844

Houghton Canada  
915 Meyerside Drive  
Mississauga  
ON LST 1R8

### Emergency telephone number

3E Company 1-866-519-4752 (USA, Canada, Mexico)  
Company Access Code: 333938

## SECTION 2: HAZARDS IDENTIFICATION

### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

|  |            |
|--|------------|
| Acute toxicity - Inhalation (Dusts/Mists)          | Category 4 |
| Specific target organ toxicity (repeated exposure) | Category 2 |
| Aspiration toxicity                                | Category 1 |

### GHS Label elements, including precautionary statements

**Signal Word**  
DANGER

### **Hazard Statements**

Harmful if inhaled  
May cause damage to organs through prolonged or repeated exposure  
May be fatal if swallowed and enters airways



**Precautionary Statements****Precautionary Statements - Prevention**

Use only outdoors or in a well-ventilated area  
Do not breathe dust/fume/gas/mist/vapors/spray

**Precautionary Statements - Response**

Get medical advice/attention if you feel unwell

**Inhalation**

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
Call a POISON CENTER or doctor/physician if you feel unwell

**Ingestion**

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
Do NOT induce vomiting

**Precautionary Statements - Storage**

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

Not applicable

**Other information**

Not applicable

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

This product is a mixture. Health hazard information is based on its ingredients.

| Chemical Name  | CAS-No     | Weight %   |
|--|------------|------------|
| Distillates (petroleum), straight-run middle   | 64741-44-2 | 60% - 100% |
| Highly refined, low viscosity mineral oils/hydrocarbons (Viscosity >7 - <20.5 cSt @40°C) | -          | 2.5% - 10% |
| Paraffin waxes (petroleum), hydrotreated   | 64742-51-4 | 1% - 2.5%  |
| Highly refined base oil (Viscosity >20.5 cSt @40°C)                                      | -          | 1% - 2.5%  |
| Calcium bis(dinonylnaphthalenesulphonate)  | 57855-77-3 | 1% - 2.5%  |
| 2-(2-Butoxyethoxy)ethanol  | 112-34-5   | 1% - 2.5%  |

**Additional information**

See Section 15 for additional information on base oils.

**SECTION 4: FIRST AID MEASURES****4.1. Description of first-aid measures**

|                       |  |
|-----------------------|--|
| <b>General advice</b> | Immediate medical attention is required. Do not get in eyes, on skin, or on clothing. Do not breathe dust/fume/gas/mist/vapors/spray. May produce an allergic reaction.  |
| <b>Inhalation</b>     | Potential for aspiration if swallowed. Get medical attention immediately if symptoms occur.<br>IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Artificial respiration and/or oxygen may be necessary.        |
| <b>Skin contact</b>   | Wash off immediately with plenty of water for at least 15 minutes. Remove and wash contaminated clothing before re-use. If symptoms persist, call a physician.   |
| <b>Eye contact</b>    | Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing.   |
| <b>Ingestion</b>      | Do not induce vomiting without medical advice. Clean mouth with water and afterwards drink plenty of water. Aspiration hazard if swallowed - can enter lungs and cause damage. Call a POISON CENTER or doctor/physician if exposed or you feel unwell. |

**Protection of First-aiders** Use personal protective equipment. Avoid contact with skin, eyes and clothing. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

#### **4.2. Most important symptoms and effects, both acute and delayed**

**Main Symptoms** May be fatal if swallowed and enters airways, Breathing difficulties

#### **4.3. Indication of immediate medical attention and special treatment needed**

**Notes to physician** Treat symptomatically. May cause sensitization of susceptible persons.

## **SECTION 5: FIRE FIGHTING MEASURES**

### **5.1. Extinguishing media**

#### **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment: Use CO<sub>2</sub>, dry chemical, or foam, Water spray or fog

#### **Extinguishing media which shall not be used for safety reasons**

None

### **5.2. Special hazards arising from the substance or mixture**

#### **Special Hazard**

This material creates a fire hazard because it floats on water.

#### **Hazardous Decomposition Products**

None under normal use

### **5.3. Advice for firefighters**

#### **Special protective equipment for fire-fighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### **6.1. Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Keep people away from and upwind of spill/leak.

#### **Advice for non-emergency personnel**

Material can create slippery conditions.

**Advice for emergency responders** For personal protection see section 8.

### **6.2. Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.

### **6.3. Methods and materials for containment and cleaning up**

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Dike to collect large liquid spills. After cleaning, flush away traces with water.

### **6.4. Reference to other sections**

See Section 8/12/13 for additional information

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Wear personal protective equipment. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Technical measures/Storage conditions

Keep container tightly closed in a dry and well-ventilated place.

#### Recommended Shelf Life

No information available.

#### Incompatible Materials

Strong oxidizing agents, Strong acids, Strong bases

### 7.3. Specific end uses

**Specific use(s)** Corrosion inhibitor

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Guidelines

| Chemical Name   | ACGIH TLV   | OSHA PEL                    | NIOSH IDLH | AIHA WEEL |
|---|---|-----------------------------|------------|-----------|
| Distillates (petroleum), straight-run middle<br>64741-44-2                                    | 5 mg/m <sup>3</sup> as mist<br>TWA: 200 mg/m <sup>3</sup> | 5 mg/m <sup>3</sup> as mist |            |           |
| Highly refined, low viscosity mineral oils/hydrocarbons (Viscosity >7 - <20.5 cSt @40°C)<br>- | 5 mg/m <sup>3</sup> as mist                               | 5 mg/m <sup>3</sup> as mist |            |           |
| Paraffin waxes (petroleum), hydrotreated<br>64742-51-4  | 5 mg/m <sup>3</sup> as mist                               | 5 mg/m <sup>3</sup> as mist |            |           |
| Highly refined base oil (Viscosity >20.5 cSt @40°C)<br>-                                      | 5 mg/m <sup>3</sup> as mist                               | 5 mg/m <sup>3</sup> as mist |            |           |

Hydrocarbon solvent vapor mixtures which do not have substance specific occupational exposure limits may be evaluated by the Reciprocal Calculation Procedure (RCP) which assigns a recommended occupational exposure limit based on the mass composition and hydrocarbon group guidance values (GGVs). Applicable recommended occupational exposure limits are shown in the table below.

| Chemical Name  | RCP OEL                                | Manufacturer |
|--|--|--------------|
| Distillates (petroleum), hydrotreated middle<br>64742-46-7 | RCP: TWA 1200 mg/m <sup>3</sup> 143ppm |              |

### Exposure controls

**Engineering Measures** Showers

Eyewash stations  
Ventilation systems.

#### **Individual protection measures, such as personal protective equipment**

|                                 |  |
|---------------------------------|--|
| <b>Eye/Face Protection</b>      | Safety glasses with side-shields.  |
| <b>Skin and body protection</b> | Wear protective gloves/clothing.   |
| <b>Respiratory protection</b>   | If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations. |
| <b>Hygiene measures</b>         | Wear personal protective equipment. Avoid breathing vapors, mist or gas. Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice.            |

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

|                             |        |                       |                     |
|-----------------------------|--------|-----------------------|---------------------|
| <b>Physical state @20°C</b> | liquid | <b>Appearance</b>     | light orange, amber |
| <b>Odor</b>                 | Mild   | <b>Odor Threshold</b> | Not Applicable      |

| <u>Property</u>                               | <u>Values</u>              | <u>Note</u> |
|---|----------------------------|-------------|
| <b>pH</b>                                     |                            |             |
| <b>Melting Point / Freezing Point</b>         | No information available / |             |
| <b>Boiling point/boiling range</b>            | > 177 °C / > 351 °F        |             |
| <b>Flash point</b>                            | 118 °C / 244 °F            | Open cup    |
| <b>Evaporation rate</b>                       | < 1                        | (BuAc = 1)  |
| <b>Flammability (solid, gas)</b>              | No information available   |             |
| <b>Flammability Limits in Air</b>             |                            |             |
| <b>upper flammability limit</b>               | No information available   |             |
| <b>Lower flammability limit</b>               | No information available   |             |
| <b>Vapor pressure</b>                         | No information available   |             |
| <b>Vapor density</b>                          | >1                         | (Air = 1.0) |
| <b>Relative density</b>                       | 0.82                       | @ 15.5°C    |
| <b>Solubility(ies)</b>                        | Insoluble in water         |             |
| <b>Partition coefficient: n-octanol/water</b> | Not Applicable             |             |
| <b>Autoignition temperature</b>               | No information available   |             |
| <b>Decomposition temperature</b>              | No information available   |             |
| <b>Viscosity, kinematic</b>                   | ~ 3.5 cSt @ 40 °C          |             |
| <b>Explosive properties</b>                   | Not Applicable             |             |
| <b>Oxidizing Properties</b>                   | Not Applicable             |             |

### 9.2 Other information

|                                     |                          |               |
|-------------------------------------|--------------------------|---------------|
| <b>Viscosity, kinematic (100°C)</b> | No information available |               |
| <b>Pour point</b>                   | No information available |               |
| <b>VOC Content (ASTM E-1868-10)</b> | 6 LBS/GALLON             | EPA METHOD 24 |
| <b>VOC Content</b>                  | No information available |               |

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

None under normal use conditions

### 10.2. Chemical stability

Stable under normal conditions

### 10.3. Possibility of hazardous reactions

None under normal use conditions

### 10.4. Conditions to avoid

Do not freeze

### 10.5. Incompatible Materials

Strong oxidizing agents, Strong acids, Strong bases

### 10.6. Hazardous decomposition products

None under normal use conditions

## SECTION 11: TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

|                            |   |
|----------------------------|---|
| <b>Product Information</b> | Harmful by inhalation   |
| <b>Inhalation</b>          | Risk of serious damage to the lungs (by aspiration). Harmful by inhalation. |
| <b>Eye contact</b>         | There is no data available for this product.                                |
| <b>Skin contact</b>        | There is no data available for this product.                                |
| <b>Ingestion</b>           | Risk of product entering the lungs on vomiting after ingestion.             |

### **Component Information**

| Chemical Name   | LD50 Oral (Rat)      | LD50 Dermal (Rat/Rabbit) | LC50 Inhalation         |
|---|----------------------|--------------------------|-------------------------|
| Distillates (petroleum), straight-run middle<br>64741-44-2                                    | > 5000 mg/kg ( Rat ) | > 2000 mg/kg ( Rabbit )  | = 1.78 mg/l ( Rat ) 4 h |
| Highly refined, low viscosity mineral oils/hydrocarbons (Viscosity >7 - <20.5 cSt @40°C)<br>- | >2000 mg/kg          | >2000 mg/kg              |                         |
| Paraffin waxes (petroleum), hydrotreated<br>64742-51-4  | 10000 mg/kg ( Rat )  | > 3600 mg/kg ( Rabbit )  |                         |
| Highly refined base oil (Viscosity >20.5 cSt @40°C)<br>-                                      | >2000 mg/kg          | >2000 mg/kg              |                         |
| Calcium bis(dinonylnaphthalenesulphonate)<br>57855-77-3                                       | >4000 mg/kg ( Rat )  |                          |                         |
| 2-(2-Butoxyethoxy)ethanol<br>112-34-5   | 3384 mg/kg ( Rat )   | = 2700 mg/kg ( Rabbit )  |                         |

### Information on toxicological effects

|                 |  |
|-----------------|--|
| <b>Symptoms</b> | May be fatal if swallowed and enters airways. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Signs and symptoms may include coughing, gasping, choking and difficulty breathing. Prolonged skin contact may defat the skin and produce dermatitis. |
|-----------------|--|

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

|  |   |
|--|---|
| <b>Sensitization</b>   | None known.   |
| <b>Germ Cell Mutagenicity</b>                                      | None known.   |
| <b>Carcinogenicity</b>   | None known.   |
| <b>Reproductive toxicity</b>                                       | None known.   |
| <b>Specific target organ systemic toxicity (single exposure)</b>   | None known.   |
| <b>Specific target organ systemic toxicity (repeated exposure)</b> | May cause damage to organs through prolonged or repeated exposure if swallowed. May cause disorder and damage to the. Liver. Spleen. Bone marrow. |
| <b>Aspiration hazard</b>   | Risk of serious damage to the lungs (by aspiration).  |

## SECTION 12: ECOLOGICAL INFORMATION

### Ecotoxicity

No special environmental measures are necessary

| Chemical Name             | Toxicity to algae                           | Toxicity to fish                                | Toxicity to microorganisms | Toxicity to daphnia and other aquatic invertebrates                  |
|---------------------------|---|---|----------------------------|--|
| 2-(2-Butoxyethoxy)ethanol | 100: 96 h Desmodesmus subspicatus mg/L EC50 | 1300: 96 h Lepomis macrochirus mg/L LC50 static |                            | 2850: 24 h Daphnia magna mg/L EC50 100: 48 h Daphnia magna mg/L EC50 |

### Persistence and degradability

No information available.

### Bioaccumulation

.

| Chemical Name   | log Pow |
|---|---------|
| Distillates (petroleum), straight-run middle 64741-44-2 | 6       |

### Mobility

The product is insoluble and floats on water. Is not likely mobile in the environment due its low water solubility.

**Other adverse effects** No information available

## SECTION 13: DISPOSAL CONSIDERATIONS

### Waste treatment

|                               |   |
|-------------------------------|---|
| <b>Waste Disposal Methods</b> | Dispose of in accordance with federal, state, and local regulations.                  |
| <b>Contaminated packaging</b> | Observe all label precautions until container is cleaned, reconditioned or destroyed. |

## SECTION 14: TRANSPORT INFORMATION

|                         |               |
|-------------------------|---------------|
| <b><u>DOT</u></b>       | Not regulated |
| <b><u>TDG</u></b>       | Not regulated |
| <b><u>ICAO/IATA</u></b> | Not regulated |

**IMDG/IMO** Not regulated

### SECTION 15: REGULATORY INFORMATION

#### International Inventories

|              |                 |
|--------------|-----------------|
| <b>TSCA</b>  | Complies        |
| <b>DSL</b>   | Complies        |
| <b>AICS</b>  | Complies        |
| <b>PICCS</b> | Complies        |
| <b>KECL</b>  | Complies        |
| <b>IECSC</b> | Complies        |
| <b>ENCS</b>  | Does not Comply |

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**AICS** - Australian Inventory of Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

#### U.S. Federal Regulations

##### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

| Chemical Name             | CAS-No   | Weight % | SARA 313 - Threshold Values % |
|---------------------------|----------|----------|-------------------------------|
| 2-(2-Butoxyethoxy)ethanol | 112-34-5 | 2        | 1.0                           |

##### SARA 311/312 Hazard Categories

|  |     |
|--|-----|
| <b>Acute Health Hazard</b>               | Yes |
| <b>Chronic Health Hazard</b>             | Yes |
| <b>Fire Hazard</b>                       | no  |
| <b>Sudden Release of Pressure Hazard</b> | no  |
| <b>Reactive Hazard</b>                   | no  |

##### Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

##### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

#### U.S. State Regulations

##### SCAQMD Rule 1144

The sale or distribution in the SCAQM District of California for metal working fluids or direct-contact lubricants is allowed if EITHER the VOC of the product itself OR the VOC of the diluted product at the point of use is less than the following limits: (1) 75 g VOC/L for metal forming, metal removal, metal treating; (2) 50 g VOC/L for metal protection, direct-contact lubricant. The VOC of this product as sold is: 6 gVOC/L (ASTM E-1868-10)

##### California Proposition 65

This product does not contain any Proposition 65 chemicals.

#### International Regulations

**Mexico - Grade** Slight risk, Grade 1



**Canada**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

**WHMIS Hazard Class**

D2B Toxic materials

**Other information**

Not applicable

The highly refined base oil (Viscosity >20.5 cSt @40°C) contains one or more substance with the following CAS/EC numbers/REACH registration numbers:

| Chemical Name  | CAS-No      |
|--|-------------|
| Lubricating oils (petroleum), C24-50, solvent-extd., dewaxed, hydrogenated | 101316-72-7 |
| Lubricating oils (petroleum), used, noncatalytically refined               | 101316-73-8 |
| Distillates (petroleum), solvent-refined heavy paraffinic                  | 64741-88-4  |
| Residual oils (petroleum), solvent-refined                                 | 64742-01-4  |
| Extracts (petroleum), residual oil solvent                                 | 64742-10-5  |
| Distillates (petroleum), hydrotreated heavy naphthenic                     | 64742-52-5  |
| Distillates (petroleum), hydrotreated light naphthenic                     | 64742-53-6  |
| Distillates (petroleum), hydrotreated heavy paraffinic                     | 64742-54-7  |
| Residual oils (petroleum), hydrotreated                                    | 64742-57-0  |
| Lubricating oils (petroleum), hydrotreated spent                           | 64742-58-1  |
| Residual oils (petroleum), solvent-dewaxed                                 | 64742-62-7  |
| Distillates (petroleum), solvent-dewaxed heavy, paraffinic                 | 64742-65-0  |
| Paraffin oils (petroleum), catalytic dewaxed heavy                         | 64742-70-7  |
| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based       | 72623-86-0  |
| Lubricating oils (petroleum), C20-C50, hydrotreated neutral oil-based      | 72623-87-1  |
| Lubricating oils   | 74869-22-0  |
| Paraffin oils  | 8012-95-1   |
| White mineral oil (petroleum)  | 8042-47-5   |
| C18-C50 branched, cyclic and linear hydrocarbons – Distillates             | 848301-69-9 |

The highly refined, low viscosity mineral oils/hydrocarbons (Viscosity >7 - <20.5 cSt @40°C) contains one or more substance with the following CAS/EC numbers/REACH registration numbers:

| Chemical Name   | CAS-No        |
|---|---------------|
| Distillates (petroleum), straight-run middle                          | 64741-44-2    |
| Distillates (petroleum), heavy hydrocracked                           | 64741-76-0    |
| Distillates (petroleum), solvent-refined light paraffinic             | 64741-89-5    |
| Distillates (petroleum), hydrotreated middle                          | 64742-46-7    |
| Distillates (petroleum), hydrotreated middle                          | 64742-46-7    |
| Distillates (petroleum), hydrotreated light                           | 64742-47-8    |
| Distillates (petroleum), hydrotreated light naphthenic                | 64742-53-6    |
| Distillates (petroleum), hydrotreated heavy paraffinic                | 64742-54-7    |
| Distillates (petroleum), hydrotreated light paraffinic                | 64742-55-8    |
| Distillates, petroleum, solvent-dewaxed light paraffinic              | 64742-56-9    |
| Distillates (petroleum), solvent-dewaxed heavy, paraffinic            | 64742-65-0    |
| Paraffin oils (petroleum), catalytic dewaxed light                    | 64742-71-8    |
| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based  | 72623-86-0    |
| Lubricating oils (petroleum), C20-C50, hydrotreated neutral oil-based | 72623-87-1    |
| White mineral oil (petroleum)   | 8042-47-5     |
| C18-C50 branched, cyclic and linear hydrocarbons – Distillates        | 848301-69-9   |
| Hydrocarbons, C14-C19, isoalkanes, cyclics, <2% aromatics             | NOT AVAILABLE |

**NFPA****Health Hazard 2****Flammability 1****Instability 0****Physical and chemical hazards -****Key or legend to abbreviations and acronyms used in the safety data sheet**

STOT SE - Specific target organ systemic toxicity (Single exposure)

STOT RE - Specific target organ systemic toxicity (repeated exposure)

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

VOC - Volatile organic compounds

**Revision Date:** 07-08-2015**Revision Note**

No information available

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**end**