



SAFETY DATA SHEET

HOUGHTON®

Revision Date 07-20-2015

Revision Number 1

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

Product Name RUST VETO 377 HF

Product Code(s) 21377200-M

Recommended use Rust preventive

Uses advised against Any other purpose.

Manufacturer, Importer, Supplier

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SECTION 2: HAZARDS IDENTIFICATION

GHS Classification

Acute aquatic toxicity	Category 3
Chronic aquatic toxicity	Category 3
Aspiration toxicity	Category 1
Flammable Liquids	Category 4

Label elements



Signal Word

DANGER

Hazard Statements

H304 - May be fatal if swallowed and enters airways
H412 - Harmful to aquatic life with long lasting effects
H227 - Combustible liquid

Precautionary Statements - Prevention

Avoid release to the environment
Keep away from heat/sparks/open flames/hot surfaces. — No smoking
Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

Ingestion

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

Fire

In case of fire: Use CO₂, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store locked up Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other information

- Prolonged skin contact may defat the skin and produce dermatitis
- Repeated exposure may cause skin dryness or cracking

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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

Chemical name	CAS No	Weight-%
Highly refined, low viscosity base oil (Viscosity <7 cSt @40°C)	-	50% - 100%
Petrolatum	8009-03-8	10% - 25%
Highly refined base oil (Viscosity >20.5 cSt @40°C)	-	1% - 2.5%
2-(2-Butoxyethoxy)ethanol	112-34-5	1% - 2.5%
Sulfonic acids, petroleum, sodium salts	68608-26-4	1% - 2.5%
Naphthenic acids, zinc salts	12001-85-3	1% - 2.5%
N-1-naphthylaniline	90-30-2	0% - 1%

Product containing mineral oil with less than 3% DMSO extract as measured by IP 346. See Section 15 for additional information on base oils.

SECTION 4: FIRST AID MEASURES

Description of first-aid measures**General advice**

Immediate medical attention is required. Do not get in eyes, on skin, or on clothing.

Inhalation

Move to fresh air. Potential for aspiration if swallowed. Get medical attention immediately if symptoms occur.

Skin contact

Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use.

Eye contact

Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing.

Ingestion

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. If symptoms persist, call a physician.

Protection of First-aiders

Use personal protective equipment. Avoid contact with skin, eyes and clothing.

Most important symptoms and effects, both acute and delayed**Main Symptoms**

May be fatal if swallowed and enters airways

Indication of immediate medical attention and special treatment needed**Notes to physician**

Treat symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment; Use CO2, dry chemical, or foam, Water spray or fog, Cool containers / tanks with water spray

Extinguishing media which shall not be used for safety reasons

Do not use a solid water stream as it may scatter and spread fire

Special hazards arising from the substance or mixture

Special Hazard

In the event of fire and/or explosion do not breathe fumes. Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). Combustible material. Risk of ignition. Water runoff can cause environmental damage. Thermal decomposition can lead to release of irritating gases and vapors. This material creates a fire hazard because it floats on water.

Hazardous decomposition products

Incomplete combustion and thermolysis produces potentially toxic gases such as carbon monoxide and carbon dioxide

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

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Remove all sources of ignition.

Advice for non-emergency personnel

Eliminate all ignition sources if safe to do so.

Advice for emergency responders For personal protection see section 8.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

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.

Reference to other sections

See Section 8/12/13 for additional information

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics NOT AVAILABLE	TWA: 600 mg/m ³	
Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, <0.03% aromatics NOT AVAILABLE	RCP C9-C15 aliphatics: 600mg/m ³	
Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics NOT AVAILABLE	TWA: 150ppm TWA: 1200 mg/m ³	
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics NOT AVAILABLE	TWA: 171 ppm TWA: 1200 mg/m ³	
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics NOT AVAILABLE	RCP C9-C15 aliphatics: 600mg/m ³	
Hydrocarbons, C11-C14, isoalkanes, cyclics, <2% aromatics NOT AVAILABLE	TWA: 165 ppm TWA: 1200 mg/m ³	
Hydrocarbons, C12-C16, isoalkanes, cyclics, <2% aromatics NOT AVAILABLE	RCP: TWA 1200 mg/m ³ 182ppm	
Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, <0.03% aromatics NOT AVAILABLE	RCP: TWA 600 mg/m ³	
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics NOT AVAILABLE	RCP: TWA 600 mg/m ³	
Hydrocarbons, C13-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics NOT AVAILABLE	RCP: TWA 600 mg/m ³	CEFIC-HSPA: 1200 mg/m ³

Engineering Measures

Showers
Eyewash stations
Ventilation systems

Personal Protective Equipment**Eye/Face Protection**

Safety glasses with side-shields.

Skin and body protection

Wear protective gloves/clothing.

Respiratory protection

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.

Hygiene measures

Regular cleaning of equipment, work area and clothing is recommended.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties**Physical state**

liquid

Appearance

Dark

Odor

No information available

Odor threshold

Not applicable

Property**Values****Remarks****pH**

No information available

Melting point / freezing point

No information available

Boiling point / boiling range

No information available

Flash point

79 °C / 174 °F

ASTM D 92

Evaporation rate

No information available

Flammability (solid, gas)

No information available

Flammability Limit in Air**Upper flammability limit:**

No information available

Lower flammability limit:

No information available

Vapor pressure

No information available

Vapor density

No information available

Relative density	0.8400	g/cm3 @15°C
Solubility(ies)	Insoluble in water	
Partition coefficient	Not applicable	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Hyphen	6.46 cSt @ 40 °C	
Explosive properties	Not applicable	
Oxidizing Properties	Not applicable	

Other information

Viscosity, kinematic (100°C)	No information available
Pour Point	No information available
VOC Content (ASTM E-1868-10)	574 g/L
VOC content	No information available

SECTION 10: STABILITY AND REACTIVITY

Reactivity

None under normal use conditions

Chemical stability

Stable under normal conditions

Possibility of hazardous reactions

None under normal use conditions

Conditions to avoid

Heat, flames and sparks, Keep away from open flames, hot surfaces and sources of ignition, Heat (temperatures above flash point), sparks, ignition points, flames, static electricity

Incompatible materials

Strong oxidizing agents, Strong acids, Strong bases

Hazardous decomposition products

Incomplete combustion and thermolysis produces potentially toxic gases such as carbon monoxide and carbon dioxide.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects

Product Information May be harmful if swallowed and enters airways.

Acute toxicity

Inhalation Risk of serious damage to the lungs (by aspiration)

Eye contact None known

Skin contact None known

Ingestion Risk of product entering the lungs on vomiting after ingestion

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Highly refined, low viscosity base oil (Viscosity <7 cSt @40°C)	>2000 mg/kg	>2000 mg/kg	
Petrolatum		= 3600 mg/kg (Rabbit)	
Highly refined base oil (Viscosity >20.5 cSt @40°C)	>2000 mg/kg	>2000 mg/kg	
2-(2-Butoxyethoxy)ethanol	3384 mg/kg (Rat)	= 2700 mg/kg (Rabbit)	
Sulfonic acids, petroleum, sodium salts	>6000 mg/kg (Rat)	>2000 mg/kg (Rabbit)	
Naphthenic acids, zinc salts	4920 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	
N-1-naphthylaniline	= 1625 mg/kg (Rat)	>5000 mg/kg (Rabbit)	

Skin corrosion/irritation Based on available data, the classification criteria are not met

Serious eye damage/eye irritation Based on available data, the classification criteria are not met

Sensitization

Respiratory Sensitization

Based on available data, the classification criteria are not met

Skin sensitization

Based on available data, the classification criteria are not met

Carcinogenicity

Based on available data, the classification criteria are not met

Germ Cell Mutagenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

Specific target organ systemic toxicity (single exposure)

Based on available data, the classification criteria are not met

Specific target organ systemic toxicity (repeated exposure)

Based on available data, the classification criteria are not met

Aspiration hazard

Risk of serious damage to the lungs (by aspiration)

Symptoms

May be fatal if swallowed and enters airways. Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing. Prolonged skin contact may defat the skin and produce dermatitis.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life with long lasting effects

Aquatic toxicity

H412 - Harmful to aquatic life with long lasting effects

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Highly refined, low viscosity base oil (Viscosity <7 cSt @40°C)	no data available	No data available	No data available	No data available
Petrolatum	no data available	No data available	No data available	No data available
Highly refined base oil (Viscosity >20.5 cSt @40°C)	no data available	No data available	No data available	No data available
2-(2-Butoxyethoxy)ethanol	100: 96 h Desmodesmus subspicatus mg/L EC50	1300: 96 h Lepomis macrochirus mg/L LC50 static	No data available	2850: 24 h Daphnia magna mg/L EC50 100: 48 h Daphnia magna mg/L EC50
Sulfonic acids, petroleum, sodium salts	>100: 72 h Desmodesmus subspicatus mg/L EC50	No data available	No data available	No data available
Naphthenic acids, zinc salts	no data available	1.53: 96 h Lepomis Macrochirus mg/L LC50	No data available	4.6: 48 h Daphnia magna mg/L EC50

N-1-naphthylaniline	0.25: 72 h Desmodemus subspicatus mg/L EC50	0.44: 96 h Oncorhynchus mykiss mg/l LC50	No data available	0.32: 48 h Daphnia magna mg/L EC50
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Persistence and degradability The product is not readily biodegradable, but it can be degraded by micro-organisms, it is regarded as being inherently biodegradable.

Bioaccumulation No information available.

Mobility in soil

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 methods

Waste from Residues / Unused Products Dispose of in accordance with local regulations. Observe all label precautions until container is cleaned, reconditioned or destroyed.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal

SECTION 14: TRANSPORT INFORMATION

China Not regulated

IMDG Not regulated

IATA Not regulated

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

China

- Take notice of labels and material safety data sheets for the working chemicals
- Ensure provisions are made in accordance with the Chemical Dangerous Goods Safety Management Regulations (December 1, 2011 the State Council), the chemical Dangerous Goods Safety Management Regulations implementing rules, the workplace safe use of chemicals, and other regulations for the safe use of hazardous chemicals, production, storage, transport, handling, etc.
- Dispose of waste in accordance with environmental legislation.

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	EC-No
Lubricating oils (petroleum), C24-50, solvent-extd., dewaxed, hydrogenated	101316-72-7	309-877-7
Lubricating oils (petroleum), used, noncatalytically refined	101316-73-8	309-878-2
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	265-090-8
Residual oils (petroleum), solvent-refined	64742-01-4	265-101-6

Extracts (petroleum), residual oil solvent	64742-10-5	265-110-5
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	265-155-0
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	265-156-6
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	265-157-1
Residual oils (petroleum), hydrotreated	64742-57-0	265-160-8
Lubricating oils (petroleum), hydrotreated spent	64742-58-1	265-161-3
Residual oils (petroleum), solvent-dewaxed	64742-62-7	265-166-0
Distillates (petroleum), solvent-dewaxed heavy, paraffinic	64742-65-0	265-169-7
Paraffin oils (petroleum), catalytic dewaxed heavy	64742-70-7	265-174-4
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0	276-737-9
Lubricating oils (petroleum), C20-C50, hydrotreated neutral oil-based	72623-87-1	276-738-4
Lubricating oils	74869-22-0	278-012-2
Paraffin oils	8012-95-1	232-384-2
White mineral oil (petroleum)	8042-47-5	232-455-8
C18-C50 branched, cyclic and linear hydrocarbons – Distillates	848301-69-9	482-220-0

The highly refined, low viscosity base oil (Viscosity <7 cSt @40°C) contains one or more substance with the following CAS/EC numbers/REACH registration numbers:

Chemical name	CAS No	EC-No
Distillates (petroleum), hydrotreated middle	64742-46-7	934-956-3
Hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics	64742-46-7	932-078-5
Distillates (petroleum), hydrotreated light	64742-47-8	265-149-8
Naphtha (petroleum), hydrotreated heavy	64742-48-9	265-150-3
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	265-156-6
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	265-158-7
Distillates (petroleum), solvent-dewaxed light paraffinic	64742-56-9	265-159-2
C12-C14 isoalkanes	68551-19-9	271-369-5
White mineral oil (petroleum)	8042-47-5	232-455-8
C18-C50 branched, cyclic and linear hydrocarbons – Distillates	848301-69-9	482-220-0
Alkanes, C14-16	90622-46-1	292-448-0
Alkanes, C12-26-branched and linear	90622-53-0	292-454-3
Alkanes, C11-15-iso-	90622-58-5	292-460-6
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	NOT AVAILABLE	926-141-6
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	NOT AVAILABLE	918-481-9
Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, <0.03% aromatics	NOT AVAILABLE	934-954-2
Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics	NOT AVAILABLE	920-107-4
Hydrocarbons, C11-C14, n-alkanes, <2% aromatics	NOT AVAILABLE	924-803-9
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	NOT AVAILABLE	920-901-0
Hydrocarbons, C14-C18, n-alkanes, cyclics, aromatics (2-30%)	NOT AVAILABLE	920-360-0
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics	NOT AVAILABLE	918-167-1
Hydrocarbons, C11-C14, isoalkanes, cyclics, <2% aromatics	NOT AVAILABLE	927-285-2
Hydrocarbons, C12-C16, isoalkanes, cyclics, <2% aromatics	NOT AVAILABLE	927-676-8
Hydrocarbons, C13-C16, isoalkanes, cyclics, < 2% aromatics	NOT AVAILABLE	918-973-3
Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, <0.03% aromatics	NOT AVAILABLE	934-956-3
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	NOT AVAILABLE	927-632-8
Hydrocarbons, C13-C18, n-alkanes, isoalkanes, cyclics, < 2% aromatics	NOT AVAILABLE	921-050-8

SECTION 16: OTHER INFORMATION

Revision Date 07-20-2015
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 of Safety Data Sheet