



HOUGHTON

SAFETY DATA SHEET

Revision Date: 08-28-2015

Version 1

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

1.1. Product identifier

Product Code(s): 21002000-M
Product Name RUST VETO A-2

Recommended use Rust Preventative
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 (Gases)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Carcinogenicity	Category 2
Reproductive Toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2
Aspiration toxicity	Category 1
Flammable liquids	Category 3
Gas Under Pressure	Compressed gas

GHS Label elements, including precautionary statements

Signal Word
 DANGER

Hazard Statements

Extremely Flammable Aerosol
 Contains gas under pressure; may explode if heated
 Harmful if inhaled
 Causes skin irritation
 Causes serious eye irritation

Suspected of causing cancer
Suspected of damaging fertility or the unborn child
May cause respiratory irritation
May cause damage to organs through prolonged or repeated exposure
May be fatal if swallowed and enters airways
Flammable liquid and vapor



Precautionary Statements

Precautionary Statements - Prevention

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Use only outdoors or in a well-ventilated area
Wash face, hands and any exposed skin thoroughly after handling
Wear eye/face protection
Do not breathe dust/fume/gas/mist/vapors/spray
Keep away from heat/sparks/open flames/hot surfaces. — No smoking
Do not spray on an open flame or other ignition source
Pressurized container: Do not pierce or burn, even after use
Keep container tightly closed
Ground/Bond container and receiving equipment
Use explosion-proof electrical/ventilating/lighting/./? /equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Keep cool

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention
Specific treatment is urgent (see supplemental first aid instructions on this label)

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention

Skin

If skin irritation occurs: Get medical advice/attention

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

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 container tightly closed

Protect from sunlight

Do not expose to temperatures exceeding 25°C/77°F

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

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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

Chemical Name	CAS-No	Weight %
Xylene	1330-20-7	60% - 100%
Ethylbenzene	100-41-4	10% - 25%
Paraffin waxes (petroleum), hydrotreated	64742-51-4	2.5% - 10%
Carbon Dioxide	124-38-9	2% - 10%
Toluene	108-88-3	0% - 1%

SECTION 4: FIRST AID MEASURES

4.1. Description of first-aid measures

General advice	Immediate medical attention is required. Do not get in eyes, on skin, or on clothing. Do not breathe dust/fume/gas/mist/vapors/spray.
Inhalation	Potential for aspiration if swallowed. Get medical attention immediately if symptoms occur. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Artificial respiration and/or oxygen may be necessary.
Skin contact	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.
Eye contact	Keep eye wide open while rinsing. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Do not rub affected area. Seek immediate medical attention/advice.
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. 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, Redness, Rash, Itching, Eye damage/irritation, Breathing difficulties
----------------------	---

4.3. Indication of immediate medical attention and special treatment needed

Notes to physician	Treat symptomatically.
---------------------------	------------------------

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 CO₂, dry chemical, or foam, Cool containers / tanks with water spray

Extinguishing media which shall not be used for safety reasons

None

5.2. Special hazards arising from the substance or mixture

Special Hazard

Flammable. Risk of ignition. In the event of fire and/or explosion do not breathe fumes. This material creates a fire hazard because it floats on water. Water runoff can cause environmental damage.

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. Use shielding to protect against bursting containers.

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. Remove all sources of ignition.

Advice for non-emergency personnel

Material can create slippery conditions. Keep people away from and upwind of spill/leak. Eliminate all ignition sources if safe to do so. Evacuate personnel to safe areas.

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. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

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. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Ensure adequate ventilation. Advice on safe handling. 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. Keep away from open flames, hot surfaces and sources of ignition. Unplug tools, appliances and motors before spraying. Do not allow can to touch any source of electricity. Do not puncture, crush or incinerate containers, even when empty.

7.2. Conditions for safe storage, including any incompatibilities**Technical measures/Storage conditions**

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Do not store above 120 °F or in direct sunlight. Keep out of the reach of children.

Recommended Shelf Life

No information available.

Incompatible Materials

Strong oxidizing agents, Strong acids, Strong bases

7.3. Specific end uses

Specific use(s) Rust Preventative

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	AIHA WEEL
Xylene 1330-20-7	STEL: 150 ppm TWA: 100 ppm	TWA: 100 ppm TWA: 435 mg/m ³ (vacated) TWA: 100 ppm (vacated) TWA: 435 mg/m ³ (vacated) STEL: 150 ppm (vacated) STEL: 655 mg/m ³		
Ethylbenzene 100-41-4	TWA: 20 ppm	TWA: 100 ppm TWA: 435 mg/m ³ (vacated) TWA: 100 ppm (vacated) TWA: 435 mg/m ³ (vacated) STEL: 125 ppm (vacated) STEL: 545 mg/m ³	IDLH: 800 ppm TWA: 100 ppm TWA: 435 mg/m ³ STEL: 125 ppm STEL: 545 mg/m ³	
Paraffin waxes (petroleum), hydrotreated 64742-51-4	5 mg/m ³ as mist	5 mg/m ³ as mist		
Toluene 108-88-3	TWA: 20 ppm	TWA: 200 ppm (vacated) TWA: 100 ppm (vacated) TWA: 375 mg/m ³ (vacated) STEL: 150 ppm (vacated) STEL: 560 mg/m ³ Ceiling: 300 ppm	IDLH: 500 ppm TWA: 100 ppm TWA: 375 mg/m ³ STEL: 150 ppm STEL: 560 mg/m ³	
Carbon Dioxide 124-38-9	5,000 ppm	5,000 ppm STEL: 30,000 ppm 15-min		

Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Exposure controls

Engineering Measures

Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/Face Protection

Tightly fitting safety goggles. Always spray away from your face.

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

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice. Avoid breathing vapors, mist or gas. Regular cleaning of equipment, work area and clothing is recommended.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state @20°C	liquid	Appearance	clear yellow
Odor	No information available	Odor Threshold	Not Applicable

<u>Property</u>	<u>Values</u>	<u>Note</u>
pH	No information available	
Melting Point / Freezing Point	No information available	
Boiling point/boiling range	No information available	
Flash point	> 29 °C / > 84 °F	PMCC
Evaporation rate	No information available	
Flammability (solid, gas)	Flammable Aerosol	
Flammability Limits 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	0.875	g/cm3 @15.5°C
Solubility(ies)	Insoluble in water	
Partition coefficient: n-octanol/water	Not Applicable	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Viscosity, kinematic	< 7 cSt @ 40 °C	ASTM D 445
Explosive properties	Not Applicable	
Oxidizing Properties	Not Applicable	

9.2 Other information

Viscosity, kinematic (100°C)	No information available
Pour point	No information available
VOC Content (ASTM E-1868-10)	No information available
VOC Content	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

Heat (temperatures above flash point), sparks, ignition points, flames, static electricity. Do not puncture or incinerate containers.

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**

Product Information	May be harmful if swallowed and enters airways Harmful by inhalation
Inhalation	Risk of serious damage to the lungs (by aspiration). Harmful by inhalation.
Eye contact	Irritating to eyes.
Skin contact	Irritating to skin.
Ingestion	Risk of product entering the lungs on vomiting after ingestion.

Component Information

Chemical Name	LD50 Oral (Rat)	LD50 Dermal (Rat/Rabbit)	LC50 Inhalation
Xylene 1330-20-7	= 3500 mg/kg (Rat)	> 1700 mg/kg (Rabbit)	5000 ppm (Rat) 4 h
Ethylbenzene 100-41-4	= 3500 mg/kg (Rat)	4100 mg/kg (Rabbit)	= 17.2 mg/L (Rat) 4 h
Paraffin waxes (petroleum), hydrotreated 64742-51-4	10000 mg/kg (Rat)	> 3600 mg/kg (Rabbit)	
Toluene 108-88-3	>5580 mg/kg (Rat)		
Carbon Dioxide 124-38-9			100,000 ppm/min

Information on toxicological effects

Symptoms	May be fatal if swallowed and enters airways. Moderate skin irritation. Moderately irritating to the eyes. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Signs and symptoms may include coughing, gasping, choking and difficulty breathing.
-----------------	---

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

Sensitization	None known.
Germ Cell Mutagenicity	None known.
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Xylene 1330-20-7		Group 3		
Ethylbenzene 100-41-4	A3	Group 2B		X
Toluene 108-88-3		Group 3		

ACGIH: (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC: (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

OSHA: (Occupational Safety & Health Administration)

X - Present

Reproductive toxicity	Contains a known or suspected reproductive toxin. Possible risk of impaired fertility. Possible risk of harm to the unborn child.
Specific target organ systemic toxicity (single exposure)	May cause disorder and damage to the. Respiratory system.
Specific target organ systemic toxicity (repeated exposure)	May cause damage to organs through prolonged or repeated exposure if swallowed. May cause disorder and damage to the. Liver. Kidney. Central nervous system (CNS).
Aspiration hazard	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
Xylene		13.4: 96 h Pimephales promelas mg/L LC50 flow-through 2.661 - 4.093: 96 h Oncorhynchus mykiss mg/L LC50 static 13.5 - 17.3: 96 h Oncorhynchus mykiss mg/L LC50 13.1 - 16.5: 96 h Lepomis macrochirus mg/L LC50 flow-through 19: 96 h Lepomis macrochirus mg/L LC50 7.711 - 9.591: 96 h Lepomis macrochirus mg/L LC50 static 23.53 - 29.97: 96 h Pimephales promelas mg/L LC50 static 780: 96 h Cyprinus carpio mg/L LC50 semi-static 780: 96 h Cyprinus carpio mg/L LC50 30.26 - 40.75: 96 h Poecilia reticulata mg/L LC50 static		3.82: 48 h Daphnia magna mg/L EC50
Ethylbenzene	4.6: 72 h Pseudokirchneriella subcapitata mg/L EC50 438: 96 h Pseudokirchneriella subcapitata mg/L EC50 2.6 - 11.3: 72 h Pseudokirchneriella subcapitata mg/L EC50 static 1.7 - 7.6: 96 h Pseudokirchneriella subcapitata mg/L EC50 static	11.0 - 18.0: 96 h Oncorhynchus mykiss mg/L LC50 static 4.2: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 7.55 - 11: 96 h Pimephales promelas mg/L LC50 flow-through 32: 96 h Lepomis macrochirus mg/L LC50 static 9.1 - 15.6: 96 h Pimephales promelas mg/L LC50 static 9.6: 96 h Poecilia reticulata mg/L LC50 static		1.8 - 2.4: 48 h Daphnia magna mg/L EC50
Toluene	433: 96 h Pseudokirchneriella subcapitata mg/L EC50 12.5: 72 h Pseudokirchneriella subcapitata mg/L EC50 static	15.22 - 19.05: 96 h Pimephales promelas mg/L LC50 flow-through 12.6: 96 h Pimephales promelas mg/L LC50 static 5.89 - 7.81: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 14.1 - 17.16: 96 h Oncorhynchus mykiss mg/L LC50 static 5.8: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 11.0 - 15.0: 96 h Lepomis		5.46 - 9.83: 48 h Daphnia magna mg/L EC50 Static 11.5: 48 h Daphnia magna mg/L EC50

		macrochirus mg/L LC50 static 54: 96 h Oryzias latipes mg/L LC50 static 28.2: 96 h Poecilia reticulata mg/L LC50 semi-static 50.87 - 70.34: 96 h Poecilia reticulata mg/L LC50 static		
--	--	---	--	--

Persistence and degradability

No information available.

Bioaccumulation

Chemical Name	log Pow
Xylene 1330-20-7	3.15
Ethylbenzene 100-41-4	3.15
Toluene 108-88-3	2.65

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****Waste Disposal Methods**

Dispose of in accordance with federal, state, and local regulations.

Contaminated packaging

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

SECTION 14: TRANSPORT INFORMATION**DOT**

UN/ID No UN1950
Proper shipping name Aerosols, 2.1, LTD QTY
Hazard class 2.1
Packing group N/A
Special Provisions N82
Exceptions 306
Description UN1950 Aerosols, 2.1, LTD QTY
Emergency Response Guide Number 126

Notes

Ground Shipment: Shipping Description: "Consumer Commodity" ORM-D (This shipping description is only good until December 31, 2020. Shipping Papers are not required for Consumer Commodities.)

Air shipments: This product is not recommended for air shipments.

TDG

UN/ID No UN1950
Proper shipping name Aerosols, 2.1, LTD QTY
Hazard class 2.1
Packing Group N/A
Description UN1950 Aerosols, 2.1, LTD QTY

ICAO/IATA

UN No.	UN1950
Proper shipping name	Aerosols, 2.1, LTD QTY
Hazard class	2.1
Packing group	N/A
Description	UN1950 Aerosols, 2.1, LTD QTY

IMDG/IMO

UN No.	UN1950
Proper shipping name	Aerosols, 2, LTD QTY
Hazard class	2
Packing Group	N/A
Description	UN1950 Aerosols, 2, LTD QTY

SECTION 15: REGULATORY INFORMATION

International Inventories

TSCA	Complies
DSL	All components are NOT on the Chemical Inventory
AICS	Does not Comply
PICCS	Does not Comply
KECL	Does not Comply
IECSC	Does not Comply
ENCS	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 %
Xylene	1330-20-7	65.12	1.0
Ethylbenzene	100-41-4	22	0.1

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	Yes
Reactive Hazard	no

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Xylene	100 lb			X
Ethylbenzene	1000 lb	X	X	X
Toluene	1000 lb	X	X	X

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Xylene	100 lb	
Ethylbenzene	1000 lb	
Toluene	1000 lb 1 lb	

U.S. State Regulations**SCAQMD Rule 1144**

This product exceeds VOC concentrations set by SCAQMD as determined by test method ASTM E1868-10 and cannot be used as a metal working fluid or as a direct contact lubricant in California's SCAQMD region as per rule 1144.

California Proposition 65

WARNING: This product contains a chemical(s) known to the State of California to cause cancer and/or birth defects or other reproductive harm.

International Regulations**Mexico - Grade**

Serious risk, Grade 3

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
D2A Very toxic materials
B3 Combustible liquid
Class A (Compressed gas)
Class B-5 (Flammable Aerosol)

Other information

Not applicable

SECTION 16: OTHER INFORMATION**NFPA**

Health Hazard 3

Flammability 2

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
NIOSH IDLH: Immediately Dangerous to Life or Health

Revision Date: 08-28-2015

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