

SAFETY DATA SHEET

RUST VETO™ 4221 NB

SDS according to the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200), Revison 2012

Section 1. Identification

Product code : 202106-01

Product name : RUST VETO™ 4221 NB

Other means of identification

: Not available.

Relevant identified uses of the substance or mixture and uses advised against

Relevant uses : Rust Preventative Uses advised against : Any other purpose.

Supplier : Quaker Houghton PA, Inc.

901 E. Hector Street

Conshohocken, PA 19428 USA

T: 610-832-4000

Wallover Oil Company 21845 Drake Road

Strongsville, OH 44149 USA

www.wallover.com T: (440) 238-9250

ProductStewardship@guakerhoughton.com

www.quakerhoughton.com

Emergency telephone number (with hours of

operation)

: CHEMTREC US/Canada:1-800-424-9300 or 1-703-527-3887 (24 hours)

Section 2. Hazards identification

OSHA/HCS status

: While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture : Not classified.

GHS label elements

Signal word : No signal word.

Hazard statements : No known significant effects or critical hazards.

Precautionary statements

Prevention : Not applicable. : Not applicable. Response Storage : Not applicable. **Disposal** : Not applicable.

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Section 2. Hazards identification

Hazards not otherwise classified

: None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	%	CAS number
Mineral oil	≥75 - ≤90	**
Benzene, mono-C10-13-alkyl derivatives, distillation residues, sulfonated, sodium salt	<10	-
Mineral oil	≤10	-
Benzene, mono-C10-13-alkyl derivs., distn. residues 2,2',2"-nitrilotriethanol	≤5 ≤3	84961-70-6 102-71-6

^{**} **May contain** : 64742-52-5,64742-53-6

The mineral oils in the product contain < 3% DMSO extract (IP 346).

The exact percentage (concentration) of composition has been withheld as a trade secret

Section 4. First aid measures

Description of necessary first aid measures

General advice : Get medical attention. If medical advice is needed, have product container or label at

hand. Use personal protective equipment as required. Remove contaminated clothing

and wash it before reuse. Wash skin surfaces thoroughly after contact.

Inhalation : Move affected person to fresh air. If not breathing, if breathing is irregular or if

respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

Get medical attention.

Skin contact: Wash with plenty of soap and water. Remove contaminated clothing and wash it before

reuse.

Eye contact: Flush with plenty of water for at least 15 minutes, occasionally lifting the upper and

lower eyelids. Remove contact lenses, if present and easy to do.

Ingestion: Ingestion may cause gastrointestinal irritation and diarrhea. Do not induce vomiting

unless directed to do so by medical personnel. Never give anything by mouth to an

unconscious person.

Most important symptoms and effects, both acute and delayed

Inhalation: Not expected under normal use.Skin contact: Not expected under normal use.Eye contact: Not expected under normal use.Ingestion: Not expected under normal use.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments: No specific treatment.

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training. It may

be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Use

personal protective equipment as required.

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Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire. Use dry chemical, CO2, water spray (fog) or foam.

Unsuitable extinguishing media

: Do not use water jet.

Specific hazards arising from the chemical

: In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products : In a fire, hazardous decomposition products may be produced. carbon oxides (CO, CO₂) nitrogen oxides

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Put on appropriate personal protective equipment (see Section 8). Keep unnecessary personnel away.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

Environmental precautions

: Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Do not allow any potentially contaminated water, including rain water, runoff from fire fighting or spills, to enter any waterway, sewer or drain.

Methods and materials for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. For large spills, dike spilled material or otherwise contain it to ensure runoff does not reach a waterway. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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Section 7. Handling and storage

Conditions for safe storage, including any incompatibilities

: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Storage temperature

: Not available.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Mineral oil	NIOSH REL (United States, 10/2016). TWA: 5 mg/m³ 10 hours. Form: Mist STEL: 10 mg/m³ 15 minutes. Form: Mist ACGIH TLV (United States). TWA: 5 mg/m³ 8 hours. STEL: 10 mg/m³ 15 minutes.
Benzene, mono-C10-13-alkyl derivatives, distillation residues, sulfonated, sodium salt	None.
Mineral oil	OSHA PEL (United States). TWA: 5 mg/m³ NIOSH REL (United States). TWA: 5 mg/m³ NIOSH REL (United States, 10/2016). TWA: 5 mg/m³ 10 hours. Form: Mist STEL: 10 mg/m³ 15 minutes. Form: Mist ACGIH TLV (United States). STEL: 10 mg/m³ 15 minutes. TWA: 5 mg/m³ 8 hours.
Benzene, mono-C10-13-alkyl derivs., distn. residues 2,2',2"-nitrilotriethanol	None. ACGIH TLV (United States, 3/2019). TWA: 5 mg/m³ 8 hours.

Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. Keep equipment clean.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with sideshields.

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Section 8. Exposure controls/personal protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Other skin protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Thermal hazards

: Not expected under normal use. Not relevant/applicable due to nature of the product.

Section 9. Physical and chemical properties

Appearance

Physical state : Liquid.

Color : Cloudy, Light, Amber.

Odor : Mild.

Odor threshold : Not available.

pH : 8.5 [Conc. (% w/w): 10%]

Melting point : Not available.

Boiling point : $>177^{\circ}\text{C} (>350.6^{\circ}\text{F})$

Flash point : Open cup: 177°C (350.6°F)

Evaporation rate : <1 (butyl acetate = 1)

Flammability (solid, gas)
Lower and upper explosive

(flammable) limits

Not available.Not available.

Vapor pressure : Not available.Vapor density : Not available.

Relative density : 0.93

Solubility : Emulsifies.

Solubility in water : Not available.

Partition coefficient: n- : Not available.

octanol/water

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Kinematic (40°C (104°F)): 0.455 cm²/s (45.5 cSt)

VOC content

Product : 50 g/l ASTM E1868-10

Section 10. Stability and reactivity

Reactivity: No specific test data related to reactivity available for this product or its ingredients.

Chemical stability: The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific measures identified.

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Section 10. Stability and reactivity

Incompatible materials : Strong oxidizing materials. strong acids. strong alkalis

Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

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

Acute toxicity estimates

Not available.

Numerical measures of toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Benzene, mono-C10-13-alkyl derivatives, distillation residues, sulfonated, sodium salt	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Benzene, mono-C10-13-alkyl derivs., distn. residues	LD50 Oral	Rat	>2000 mg/kg	-
2,2',2"-nitrilotriethanol	LD50 Oral	Rat	7.39 g/kg	-

Irritation/Corrosion : Based on available data, the classification criteria are not met.

Product/ingredient name	Result	Species	Score	Exposure	Observation
2,2',2"-nitrilotriethanol	Eyes - Mild irritant	Rabbit	-	10 mg	-
	Eyes - Severe irritant	Rabbit	-	20 mg	-
	Skin - Mild irritant	Human	-	72 hours 15	-
				mg I	
	Skin - Severe irritant	Mouse	-	50 %	-
	Skin - Mild irritant	Rabbit	-	24 hours 560	-
				mg	

Sensitization : Based on available data, the classification criteria are not met.
 Mutagenicity : Based on available data, the classification criteria are not met.
 Carcinogenicity : Based on available data, the classification criteria are not met.

Product/ingredient name	OSHA	IARC	NTP
2,2',2"-nitrilotriethanol	-	3	-

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

Specific target organ toxicity (single exposure)
 Based on available data, the classification criteria are not met.
 Based on available data, the classification criteria are not met.

exposure)

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

Name	Result
	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Other information : None identified.

Information on the likely routes of exposure

Inhalation: No known significant effects or critical hazards.Skin contact: No known significant effects or critical hazards.Eye contact: No known significant effects or critical hazards.

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Section 11. Toxicological information

Ingestion: No known significant effects or critical hazards.

Delayed and immediate effects and also chronic effects from short and long term exposure

None identified.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: Not expected under normal use.Skin contact: Not expected under normal use.Eye contact: Not expected under normal use.Ingestion: Not expected under normal use.

Section 12. Ecological information

No known significant effects or critical hazards.

Toxicity

Product/ingredient name	Result	Species	Exposure
Benzene, mono-C10-13-alkyl derivs., distn. residues	Acute LC50 >100 mg/l	Fish - Pimephales promelas	96 hours
2,2',2"-nitrilotriethanol	Acute EC50 609.98 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 11800000 µg/l Fresh water Chronic NOEC 16000 µg/l Fresh water	Fish - Pimephales promelas Daphnia - Daphnia magna	96 hours 21 days

Persistence and degradability

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Benzene, mono-C10-13-alkyl	6.6	3.162	low
derivs., distn. residues 2,2',2"-nitrilotriethanol	-1	<3.9	low

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

: Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Empty containers or liners may retain some product residues. Empty containers retain product residue and can be hazardous. Care should be taken when handling emptied containers that have not been cleaned or rinsed out.

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Section 14. Transport information

	DOT Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.

Additional information

Special precautions for user : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in the

event of an accident or spillage.

Transport in bulk according : Not available.

to IMO instruments

Section 15. Regulatory information

U.S. Federal regulations

Clean Water Act (CWA) 311

None of the components are listed.

Clean Water Act (CWA) 307

None of the components are listed.

Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)

None of the components are listed.

CERCLA: Hazardous substances.

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).

Reportable quantity : 2,2'-iminodiethanol: 100 lbs. (45.4 kg);

SARA 302/304

None of the components are listed.

SARA 311/312

Classification : See GHS Classification in section 2 for hazard class information

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

State regulations

Massachusetts : The following components are listed: TRIETHANOLAMINE

New York : None of the components are listed.

New Jersey The following components are listed: TRIETHANOLAMINE; ETHANOL, 2,2',2"-

NITRILOTRIS-

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Section 15. Regulatory information

Pennsylvania : The following components are listed: ETHANOL, 2,2',2"-NITRILOTRIS-

California

California Prop. 65

Ingredient name	Concentration	
Diethanolamine	Trace	Cancer

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:

Product as-supplied : 50 g/I ASTM E1868-10

International regulations

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

United States : All components are active or exempted.Canada : All components are listed or exempted.

Section 16. Other information

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Quaker Houghton Product Stewardship

Key to abbreviations : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available SGG = Segregation Group UN = United Nations

VOC = Volatile Organic Compound

References : Safety data sheets of raw materials, global regulatory body information, scientific

literature, and testing data.

▼ Indicates information that has changed from previously issued version.

Notice to reader

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Section 16. Other information

This product's safety information is provided to assist our customers in assessing compliance with safety/health/ environmental regulations. The information contained herein is based on data available to us and is correct to the best of our knowledge, information and belief at the date of its publication. However, no warranty of merchantability, fitness for any use, or any other warranty is expressed or implied regarding the accuracy of this data, the results to be obtained from the use thereof, or the hazards connected with the use of the product. Since the use of this product is within the exclusive control of the user, it is the user's obligation to determine the conditions for safe use of the product. Such conditions should comply with all regulations concerning the product. The company referenced in this Safety Data Sheet assumes no liability for any injury or damage, direct or consequential, resulting from the use of this product unless such injury or damage is attributable to the gross negligence of such company.

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