

# SAFETY DATA SHEET

Prepared according to USA OSHA Hazcom 2012 / Canada WHMIS 2015



Date Prepared : 05/02/2018

SDS No : BROH RUST DISSOLVER GEL 236mL\_ENG

Date Revised : 05/22/2018

Revision No : 1

## BROH RUST DISSOLVER GEL

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** BROH RUST DISSOLVER GEL

**Product Description:** Rust Remover, gelled, 236 mL / 8 fl oz US

**General Use:** Rust Remover

**Product Stock/Code:** BROH

**Chemical Family:** Phosphoric acid aqueous solution

**Molecular Formula:** Mixture

#### Manufacturer / Supplier

Dominion Sure Seal Ltd.  
6175 Danville Road, Mississauga  
Ontario, Canada L5T 2H7  
Fax: 905-670-5174  
www.dominionsureseal.com

**Customer Service:** 905-670-5411

#### Emergency Telephone Numbers (24 hour)

CANUTEC : (613) 996-6666

CHEMTREC : (800) 424-9300

### 2. HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

The classification and label elements stated below were prepared in accordance with the USA OSHA Hazard Communication Standard (29 CFR 1910.1200; Hazcom 2012) and the Canadian WHMIS regulations (Hazardous Products Regulations; WHMIS 2015). This information may be different from the actual product label information for labels that are regulated by other agencies.

#### Health hazards:

Skin Corrosion, Category 1B  
Serious Eye Damage, Category 1

#### Physical hazards:

Flammable Liquids, Category 4

#### Label elements

Hazardous components for labelling:

**Phosphoric acid and Isopropyl alcohol**



Corrosion

**Signal Word:** DANGER

**Hazard statement(s)**

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H314: Causes severe skin burns and eye damage.

H227: Combustible liquid.

### Precautionary statement(s)

#### Prevention:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P260: Do not breathe mist, vapours or spray.

P264: Wash hands thoroughly after handling.

P280: Wear protective gloves, protective clothing and eye protection.

#### Response:

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P363: Wash contaminated clothing before reuse.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTER or doctor/physician.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P370+P378: In case of fire: Use dry chemical or foam to extinguish.

#### Storage:

P405: Store locked up.

P403: Store in a well-ventilated place.

#### Disposal:

P501: Dispose of contents/container in accordance with applicable local, regional and/or national regulations.

**Hazards Not Otherwise Classified:** No data available.

### Emergency Overview

**Immediate concerns:** Causes severe skin and eye burns. Combustible liquid.

**Comments:** See sections 9 and 10 for more detailed information on physicochemical effects.

See section 11 for more detailed information on health effects.

See sections 12 for more detailed information on environmental effects.

The actual container label may not include the above label elements. The labeling shown above applies to products used solely for industrial / professional use.

Consumer products should be labeled in accordance with the Canadian Consumer Chemicals and Containers Regulations and US Consumer Product Safety Commission regulations. Consumer product labeling takes precedence over Canadian WHMIS 2015 and OSHA Hazcom 2012 Hazard Communication labeling.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS number
Water (non-hazardous ingredient)	69 - 73	7732-18-5
Phosphoric acid	23 - 27	7664-38-2
Isopropyl alcohol	2.3 - 2.7	67-63-0

**Comments:** There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the product and hence require reporting in this section.

### 4. FIRST AID MEASURES

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**Eye Contact:** In case of contact, immediately flush eyes, keeping eyelids open, with plenty of water for at least 15 minutes. Get medical attention immediately.

**Skin Contact:** Immediately flush skin with plenty of water. Remove clothing. Get medical attention immediately. Wash clothing separately before reuse.

**Ingestion:** If swallowed, do NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

**Inhalation:** If affected by inhalation of vapour, move to fresh air. Get medical attention if symptoms persist.

### Signs and Symptoms of Overexposure

**Eye Contact:** Corrosive. Will cause eye burns and permanent tissue damage.

**Skin Contact:** Contact causes severe skin irritation and possible burns.

**Ingestion:** Corrosive and may cause severe and permanent damage to mouth, throat and stomach.

**Inhalation:** Fumes and spray mist may be harmful. Causes respiratory tract irritation.

**Notes to Physician:** Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

**Additional Information:** No data available.

## 5. FIRE FIGHTING MEASURES

**Flammable Properties:** Combustible liquid. Will burn if involved in a fire. May react with metals and lead to the formation of flammable hydrogen gas.

**Extinguishing Media:** Use an extinguishing agent suitable for the surrounding fire.

**Hazardous Combustion Products:** During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

**Fire Fighting Procedures:** Containers can build up pressure if exposed to heat (fire).

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

**Sensitivity to Static Discharge:** Product is sensitive to static discharge.

**Sensitivity to Mechanical Impact:** Product is not sensitive to mechanical impact.

## 6. ACCIDENTAL RELEASE MEASURES

**Small Spill:** Ensure adequate ventilation. May be neutralized with slaked lime or sodium bicarbonate. Cover spill area with suitable absorbent material (e.g., sand, earth, sawdust, vermiculite, Oil-Dri, Kitty Litter, etc.). Sweep up material being careful not to raise dust. Place in an appropriate disposal container and seal tightly. Wash area with soap and water.

### Environmental Precautions

**Water Spill:** Do not flush to sewer.

**Land Spill:** Avoid runoff into storm sewers and ditches which lead to waterways.

**Special Protective Equipment:** Clean up spills immediately, observing precautions in Protective Equipment section 8.

## 7. HANDLING AND STORAGE

**General Procedures:** Handle in accordance with good industrial hygiene and safety practices.

**Handling:** Wear recommended personal protective equipment. Keep container closed when not in use. Avoid

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breathing vapours or mist. Avoid contact with eyes, skin, and clothing. After handling, always wash hands thoroughly with soap and water.

**Storage:** Protect from physical damage. Keep containers tightly closed, when not in use. Store in a cool place. Keep from freezing.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Exposure Guidelines

OSHA / WHMIS 2015 HAZARDOUS COMPONENTS				
Occupational Exposure Limits				
Chemical Name	Type		ppm	mg/m <sup>3</sup>
Phosphoric acid	OSHA PEL	TWA	--	1
		STEL	--	3
	ACGIH TLV	TWA	--	1
		STEL	--	3
	NIOSH REL	TWA	--	1
		STEL	--	3
Isopropyl alcohol	OSHA PEL	TWA	400	980
		STEL	400	984
	ACGIH TLV	TWA	200	491
		STEL	400	984
	NIOSH REL	TWA	400	980
		STEL	500	1225

**Engineering Controls:** Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits. Avoid breathing mists; if general ventilation or local exhaust is inadequate, persons exposed to mists should wear approved breathing devices. Use explosion-proof ventilation equipment.

#### Personal Protective Equipment

**Eyes and Face:** Wear safety glasses with side shields (or goggles). Contact lenses should not be worn when working with this product. Eye wash fountains should be readily available to areas of use and handling.

**Skin Contact:** Wear chemical resistant gloves.

**Respiratory:** If engineering controls do not maintain airborne concentrations below recommended exposure limits, an approved respirator must be worn. Respirator type: NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

**Protective Clothing:** Wear protective clothing as necessary to prevent contact.

**Work Hygienic Practices:** Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Promptly remove soiled clothing/wash thoroughly before reuse.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State** : Liquid  
**Odor** : Mild  
**Odor Threshold** : No data available.

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<b>Appearance</b>	: Thixotropic gel
<b>Color</b>	: Pink
<b>pH</b>	: 1.5
<b>% Volatiles</b>	: 72 to 75% w/w
<b>Flash Point and Method</b>	: 70 to 80°C Closed Cup
<b>Flammable Limits</b>	: No data available.
<b>Autoignition Temperature</b>	: No data available.
<b>Vapor Pressure</b>	: 4.4 kPa [isopropyl alcohol] at 20°C
<b>Vapor Density</b>	: > 1 (air = 1)
<b>Boiling Point</b>	: > 100°C (212°F)
<b>Freezing Point</b>	: No data available.
<b>Melting Point</b>	: No data available.
<b>Solubility in Water</b>	: Soluble
<b>Evaporation Rate (n-butyl acetate = 1)</b>	: < 1
<b>Density</b>	: 1.16±0.01g/ml at 20°C
<b>Viscosity</b>	: 500 to 1000 cps at 22°C (72°F)
<b>VOC Content</b>	: 2.5% w/w
<b>Oxidizing Properties</b>	: No data available.

## 10. STABILITY AND REACTIVITY

**Reactive Hazard** : No

**Hazardous Polymerization:** Not expected to occur.

**Stability:** Stable.

**Conditions to Avoid:** Keep away from incompatible materials.

**Possibility of Hazardous Reactions:** No data available.

**Hazardous Decomposition Products:** By fire and high heat: Carbon monoxide, Carbon dioxide, Oxides of nitrogen and other undetermined compounds.

**Incompatible Materials:** Oxidizing materials. Metals. Alkalis.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

Chemical Name	Oral LD <sub>50</sub> mg/kg(rat)	Dermal LD <sub>50</sub> mg/kg(rabbit)	Inhalation LC <sub>50</sub> mg/l
Phosphoric acid	1530	2740	1.69(rat;1h-mist)
Isopropyl alcohol	4710-5840 4475(mouse) 5030(rabbit)	12,870	51.0(rat;8h) 72.6(rat;4h)

**Acute Toxicity - Dermal LD<sub>50</sub>:** Based on available ingredient data, the classification criteria for Acute Dermal

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Toxicity are not met for this mixture. The calculated ATE is >2000 mg/kg.

**Acute Toxicity - Oral LD<sub>50</sub>:** Based on available ingredient data, the classification criteria for Acute Oral Toxicity are not met for this mixture. The calculated ATE is >2000 mg/kg.

**Acute Toxicity - Inhalation LC<sub>50</sub>:** Based on available ingredient data, the classification criteria for Acute Toxicity - inhalation are not met for this mixture. The calculated ATE is >20 mg/l/4h (vapours).

**Notes:** < 5% of the mixture consists of an ingredient or ingredients of unknown acute toxicity. No additional toxicology information is available for this product itself. (See Component Toxicity Information).

**Primary Routes of Entry:**

Eye contact. Inhalation. Skin contact. Ingestion.

**Skin Irritation / Corrosion:** Contains: Phosphoric acid. The mixture is classified as: Skin Corrosive, category 1, based on summation of ingredient data (>5% ingredients classified as skin corrosive, category 1). Corrosive, causes permanent skin damage (scarring).

**Eye Irritation / Serious Eye Damage:** Contains: Phosphoric acid. The mixture is classified as: Eye Damage, category 1, based on summation of ingredient data (> 3% ingredients classified as skin and/or eye category 1). Corrosive. Will cause eye burns and permanent tissue damage.

**Respiratory / Skin Sensitizer:** Based on available data, the classification criteria for respiratory sensitization are not met for this mixture (< 0.1% ingredients classified as a respiratory sensitizer, category 1 or sub-category 1A and < 1.0% ingredients classified as a respiratory sensitizer, sub-category 1B). Based on available data, the classification criteria for skin sensitization are not met for this mixture (< 0.1% ingredients classified as a skin sensitizer, category 1 or sub-category 1A and < 1.0% ingredients classified as a skin sensitizer, sub-category 1B).

**Germ Cell Mutagenicity:** Based on available data, the classification criteria for Germ Cell Mutagenicity are not met for this mixture (< 0.1% ingredients classified as Germ Cell Mutagen, category 1A or 1B and < 1.0% ingredients classified as Germ Cell Mutagen, category 2).

### Carcinogenicity

Chemical Name	NTP status	IARC status	OSHA status	Other
Phosphoric acid	--	--	--	--
Isopropyl alcohol	--	3	--	--

**Notes:** Based on available data, the classification criteria for Carcinogenicity are not met for this mixture (< 0.1% ingredients classified as a Carcinogen, category 1 or 2).

**Reproductive Toxicity:** Based on available data, the classification criteria for Reproductive Toxicity are not met for this mixture (< 0.1% ingredients classified as Reproductive Toxicity, category 1 or 2).

**Specific Target Organ Toxicity - Single Exposure:** Based on available data, the classification criteria for Specific Target Organ Toxicity - Single Exposure are not met for this mixture (< 1.0% ingredients classified as Specific Target Organ Toxicity - Single Exposure, category 1 or 2 and < 20% summation of all ingredients classified as Specific Target Organ Toxicity - Single Exposure, category 3).

**Specific Target Organ Toxicity - Repeated Exposure:** Based on available data, the classification criteria for Specific Target Organ Toxicity - Repeated Exposure are not met for this mixture (< 1.0% ingredients classified as Specific Target Organ Toxicity - Repeated Exposure, category 1 or 2).

**Aspiration Hazard:** Based on available data, the classification criteria for Aspiration Hazard are not met for this mixture (< 10% ingredients classified as an Aspiration Hazard, category 1 and/or mixture viscosity > 20.5 mm<sup>2</sup>/s at 40 °C).

## 12. ECOLOGICAL INFORMATION

**Environmental Data:** No data available.

**Ecotoxicological Information:** No data available.

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**Bioaccumulation/Accumulation:** No data available.

**Distribution:** No data available.

**Aquatic Toxicity (Acute):** No data available.

**Chemical Fate Information:** No data available.

### 13. DISPOSAL CONSIDERATIONS

**Disposal Method:** Comply with applicable local, state or international regulations concerning solid or hazardous waste disposal and/or container disposal. Do not discharge substance/product into sewer system.

**Product Disposal:** Empty containers retain product residue; observe all precautions for product. Decontaminate containers prior to disposal.

### 14. TRANSPORT INFORMATION

#### DOT (Department of Transportation)

**Proper Shipping Name** : PHOSPHORIC ACID SOLUTION

**Primary Hazard Class/Division:** 8

**UN/NA Number** : 1805

**Packing Group** : III

**Other Shipping Information:**

For products with an inner packaging < 5.0 L, this product may be shipped as a Limited Quantity.

#### Vessel (IMO/IMDG)

**Shipping Name** : PHOSPHORIC ACID SOLUTION

**UN/NA Number** : 1805

**Primary Hazard Class/Division:** 8

**Packing Group** : III

**Marine Pollutant** : No

**Note:** For products with an inner packaging < 5.0 L, this product may be shipped as a Limited Quantity.

#### Canadian Transportation of Dangerous Goods Regulations

**Shipping Name** : PHOSPHORIC ACID SOLUTION

**UN/NA Number** : 1805

**Primary Hazard Class/Division:** 8

**Packing Group** : III

**TDG Note:**

For products with an inner packaging < 5.0 L, this component may be shipped as a Limited Quantity as per TDG Section 1.17.

### 15. REGULATORY INFORMATION

#### UNITED STATES

**SARA Section 311/312 Hazard Categories**

**311/312 Health Hazards:** Serious Eye Damage, Skin Corrosion

**311/312 Physical Hazards:** Flammable Liquids

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**Fire Hazard** : Yes  
**Sudden Release of Pressure** : No  
**Reactive Hazard** : No  
**Product Acute Toxicity** : Yes  
**Product Chronic Toxicity** : No

### EPCRA Section 313 Toxic Chemicals

Chemical Name	Wt.%	CAS number
Isopropyl alcohol	2.3 - 2.7	67-63-0

### EPCRA Section 302 Extremely Hazardous Substances

#### EPCRA Status:

This product contains no listed extremely hazardous substances that are subject to the reporting requirements of SARA Title III, Section 302.

### CERCLA Hazardous Substances and Reportable Quantities (RQ)

Chemical Name	Wt.%	RQ
Phosphoric acid	23 - 27	5,000

### TSCA (The Toxic Substances Control Act)

#### TSCA Status:

All components are included or are otherwise exempt from inclusion on this inventory.

### CAA 112(b) - Hazardous Air Pollutants

#### CAA 112(r) - List of Substances for Accidental Release Prevention:

This product contains no chemicals subject to CAA 112(b) or CAA 112(r).

#### California Proposition 65:

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

### OSHA Hazard Communication Standard (29 CFR 1910.1200):

OSHA Status: Hazardous Product (See Section 2 for details).

This product has been classified in accordance with the hazard criteria of the USA OSHA Hazard Communication Standard (29CFR 1910.1200) and the Safety Data Sheet contains all the information required by the OSHA Hazard Communication Standard (HazCom 2012).

## CANADA

### WHMIS Hazard Symbol and Classification

See Section 2 for details.

#### WHMIS Regulatory Status:

This product has been classified in accordance with the hazard criteria of the Canadian Hazardous Products Regulations and the Safety Data Sheet contains all the information required by the Hazardous Products Regulations (WHMIS 2015).

#### WHMIS Classification:

WHMIS 2015 (Canada) Status: Hazardous Product (See Section 2 for details).

### CEPA - National Pollutant Release Inventory (NPRI):



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Name	CAS No.	NPRI Part No.
Isopropyl alcohol	67-63-0	1A, 5 (VOC)

**Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL):**

All components are included or are otherwise exempt from inclusion on this inventory.

**Comments** VOC Content -- See section 9.

**16. OTHER INFORMATION**

**Reason for Issue:** The Safety Data Sheet was updated.

**Approved By:** Jim Gordon    **Title:** R&D Chemist

**Prepared By :** Regulatory Compliance

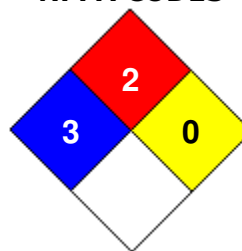
**Date Revised:** 05/22/2018

**Information Contact:** 905-670-5411

**Revision Summary:** This MSDS replaces the 05/02/2018 MSDS. Revised: **Section 1:** Reason for Issue. **Section 11:** Carcinogenicity.

**HMIS RATING**

<b>HEALTH</b>	*	<b>3</b>
<b>FLAMMABILITY</b>		<b>2</b>
<b>PHYSICAL HAZARD</b>		<b>0</b>
<b>PERSONAL PROTECTION</b>		<b>F</b>

**NFPA CODES**

**NFPA 30 / 30B Storage Classification:** Combustible Liquid IIIA

**Manufacturer Supplemental Notes:** None

**Data Sources:** Not Available

**Additional SDS Information:**

N/AV Not Available

N/AP Not Applicable

ND Not yet determined

ACGIH American Conference of Governmental Industrial Hygienists

CAA The Clean Air Act

CCCR The Consumer Chemicals and Containers Regulations

CEPA The Canadian Environmental Protection Act

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

EPCRA The Emergency Planning and Community Right-To-Know Act

IARC International Agency for Research on Cancer

MSHA Mine Safety and Health Administration

NIOSH National Institute for Occupational Safety and Health

NTP National Toxicology Program

OSHA The Occupational Safety and Health Administration

SARA The Superfund Amendments and Reauthorization Act

WHMIS Workplace Hazardous Materials Information System

**General Statements:** None

**Comments:** None

**Manufacturer Disclaimer:** The information contained herein is based on data considered accurate. No warranty

## **BROH RUST DISSOLVER GEL**

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is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. No responsibility is assumed for personal injury or property damage to vendees or users or third parties, caused by the material. Such vendees or users assume all risks with the use of this material.