SAFETY DATA SHEET

Prepared according to USA OSHA Hazcom 2024 / Canada WHMIS 2023

Date issued : 11/05/2015
SDS number : BROQ Rust Off Rust Converter_EN
Date revised : 01/28/2026
Revision number : 2

BROQ RUST OFF! Rust Converter

1. Identification

Product identifier: BROQ RUST OFF! Rust Converter
Product description: Rust Converter, 1 L / 33.8 fl oz US
Relevant identified uses of the substance or mixture and uses advised against: Rust Converter
Other means of identification - product Stock / Code: BROQ / 10044
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 number

Telephone number to contact in the event of an emergency (9 am to 5 pm from M to F):
(905) 670-5411

2. Hazard 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 2024) and the Canadian WHMIS regulations (Hazardous Products Regulations; WHMIS 2023). 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
Specific Target Organ Toxicity (Single exposure), Category 3 (Narcotic Effects)

Physical hazards:

Flammable Liquids, Category 3

Label elements

Hazardous components for labelling:
phosphoric acid, isopropyl alcohol and tannins

Corrosion

Flame

Exclamation mark

Signal word: DANGER

Hazard statement(s)

H226: Flammable liquid and vapour.
H314: Causes severe skin burns and eye damage.
H336: May cause drowsiness or dizziness.

Precautionary statement(s)

Prevention:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240: Ground and bond container and receiving equipment.
P241: Use explosion-proof electrical, ventilating or lighting equipment.
P242: Use non-sparking tools.
P243: Take action to prevent static discharges.
P280: Wear protective gloves, protective clothing and eye protection.
P264: Wash hands thoroughly after handling.
P260: Do not breathe mist, vapours or spray.
P271: Use only outdoors or in a well-ventilated area.

Response:

P308+P313: IF exposed or concerned: Get medical advice/attention.
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.
P312: Call a POISON CENTER or doctor/physician if you feel unwell.
P370+P378: In case of fire: Use dry chemical or foam to extinguish.

Storage:

P403+P235: Store in a well-ventilated place. Keep cool.
P233: Keep container tightly closed.
P405: Store locked up.

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: Flammable liquid and vapor. Causes severe skin and eye burns. Vapours may cause drowsiness and dizziness. High concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches).

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 2023 and OSHA Hazcom 2024 Hazard Communication labeling.

3. Composition/information on ingredients

Chemical name	% w/w	CAS No.

water (non-hazardous ingredient)	44 - 50	7732-18-5
phosphoric acid	23 - 27	7664-38-2
isopropyl alcohol	18 - 22	67-63-0
tannins	7 - 9	1401-55-4

Comments: The actual concentration is withheld as a trade secret.
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

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

Skin: 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.

Most important symptoms and effects, both acute and delayed

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

Skin: Contact causes severe skin irritation and possible burns.

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

Inhalation: Causes respiratory tract irritation. Fumes and spray mist may be harmful. May cause central nervous system depression.

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

General hazard: Flammable Liquid. Can release vapors that form explosive mixtures at temperatures at or above the flash point. Product can be ignited by static discharge. May react with metals and lead to the formation of flammable hydrogen gas.

Suitable extinguishing media: Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.

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: Eliminate all ignition sources. Ensure adequate ventilation. May be neutralized with slaked lime or sodium bicarbonate. Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. 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: Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of flammable liquids. Ensure thorough ventilation of stores and work areas.

Precautions for safe handling: Do not use in the presence of open flame or spark. Use only in a well ventilated area. Wear recommended personal protective equipment. Keep container closed when not in use. Avoid breathing vapours or mist. Avoid contact with eyes, skin, and clothing. After handling, always wash hands thoroughly with soap and water.

Conditions for safe storage: Store away from heat, sparks, open flames, strong oxidizing agents and direct sunlight. Protect from physical damage. Keep container tightly closed and in a well-ventilated place. Store in a cool place.

8. Exposure controls/personal protection

Exposure controls

Control parameters				
	Occupational exposure limit values			
Chemical name	**Type**		**ppm**	**mg/m³**
phosphoric acid	**OSHA PEL**	**TWA**	--	1
	ACGIH TLV	**TWA**	--	1
		STEL	--	3
	NIOSH REL	**TWA**	--	1
		STEL	--	3
isopropyl alcohol	**OSHA PEL**	**TWA**	400	980
	ACGIH TLV	**TWA**	200	491
		STEL	400	984
	NIOSH REL	**TWA**	400	980
		STEL	500	1225
tannins	**USA OEL**	**TWA**	[1]	[1]

Footnotes:
1. This material does not have established exposure limits in the USA under OSHA, NIOSH, ACGIH.

Appropriate 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.

Individual protection measures, such as personal protective equipment

Eye / face protection: 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: Wear chemical resistant gloves.

Respiratory protection: 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.

Skin protection - other: Wear protective clothing as necessary to prevent contact.

Occupational hygiene 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

Odour: Pleasant, characteristic

Odour threshold: No data available.

Appearance: Mobile liquid

Colour: Brown

pH: 1.5

% Volatiles: 64 to 70 % w/w

Flash point: 29°C Setaflash Closed Cup

Lower explosion limit / flammability limit: 2.0

Upper explosion limit / flammability limit: 12.0

Explosion limit / flammability limit notes: Based on data for isopropyl alcohol

Auto-ignition temperature: 456°C

Notes: Based on data for isopropyl alcohol

Vapour pressure: 4.4 kPa [isopropyl alcohol] at 20°C

Relative vapour density: > 1 (air = 1)

Initial boiling point and boiling range: 83°C (isopropyl alcohol)

Freezing point: No data available.

Melting point: No data available.

Decomposition temperature: No data available.

Solubility: Soluble

Partition coefficient n-octanol/water (logarithmic value): No data available.

Evaporation rate (n-butyl acetate = 1): > 1

Density: 1.12±0.03g/ml at 20°C

Particle characteristics: No data available.

Relative density: No data available.

Viscosity (kinematic or dynamic): No data available.

VOC content: < 25% w/w

Flammability: Flammable Liquids

10. Stability and reactivity

Reactivity: No

Dangerous polymerization: Not expected to occur.

Chemical stability: Stable.

Conditions to avoid: Keep away from flames and 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	LD_{50} (oral) mg/kg(rat)	LD_{50} (dermal) mg/kg(rabbit)	LC_{50} (inhalation) 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)
tannins	No data available.	No data available.	Not Applicable

Acute dermal toxicity LD_{50}: Based on available ingredient data, the classification criteria for Acute Dermal Toxicity are not met for this mixture. The calculated ATE is >2000 mg/kg.

Acute oral toxicity LD_{50}: 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 inhalation toxicity LC_{50}: 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: 10 % 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).

Skin corrosion / irritation: 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).

Serious eye damage / irritation: 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 or skin sensitization: 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	IARC	OSHA	Status - other
phosphoric acid	--	--	--	--
isopropyl alcohol	--	3	--	--
tannins	--	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: Contains: isopropyl alcohol. The mixture is classified as: Specific Target Organ Toxicity - Single Exposure, category 3, based on summation of ingredient data using the applicable cut-off/concentration limits (≥ 20% summation of all ingredients classified as Specific Target Organ Toxicity - Single Exposure, category 3 [Narcotic Effects]). Can cause central nervous system depression (including unconsciousness). High vapor concentrations may cause drowsiness. May cause headaches and dizziness.

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^2/s at 40 °C).

12. Ecological information

Ecotoxicological information: No data available.

Aquatic toxicity, both acute and chronic: No data available.

Persistence and degradability: No data available.

Bioaccumulative potential: No data available.

Other adverse effects: No data available.

Mobility in soil: No data available.

13. Disposal considerations

Disposal methods: 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

USA Department of Transport Regulations (DOT)

UN proper shipping name: FLAMMABLE LIQUID, CORROSIVE, N.O.S.

Technical Name: isopropyl alcohol, phosphoric acid

Transport hazard class(es): 3

Secondary Hazard Class/Division: 8

UN number: 2924

Packing group, if applicable: III

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

IMDG - sea

UN proper shipping name: FLAMMABLE LIQUID, CORROSIVE, N.O.S.

Technical Name: isopropyl alcohol, phosphoric acid

UN number: 2924

Transport hazard class(es): 3

Secondary Hazard Class/Division: 8

Packing group, if applicable: III

Environmental hazards - marine pollutant: Yes

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

Canadian Transport of Dangerouse Goods Regulations (TDG)

UN proper shipping name: FLAMMABLE LIQUID, CORROSIVE, N.O.S.

Technical Name: isopropyl alcohol, phosphoric acid

UN number: 2924

Transport hazard class(es): 3

Secondary Hazard Class/Division: 8

Packing group, if applicable: III

TDG other shipping information:
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, Target Organ Toxicity (Single exposure)

311/312 Physical hazards: Flammable Liquids

EPCRA Section 313 Toxic Chemicals

Chemical name	% w/w	CAS No.
isopropyl alcohol	18 - 22	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	% w/w	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.

USA OSHA Hazard Communication Standard (29CFR 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 2024).

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 2023).

WHMIS Classification:
WHMIS 2023 (Canada) Status: Hazardous Product (See Section 2 for details).

CEPA - National Pollutant Release Inventory (NPRI):

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: 01/28/2026

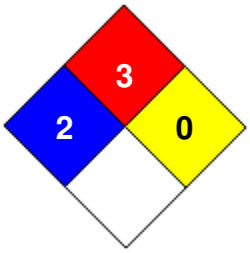
Information contact: 905-670-5411

Revision summary: This SDS replaces the 05/31/2017 SDS.

HMIS RATING

HEALTH	2
FLAMMABILITY	3
PHYSICAL HAZARD	0
PERSONAL PROTECTION	G

NFPA CODES



NFPA 30 / 30B Storage Classification: Flammable Liquid IC

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

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