



Safety Data Sheet

Section 1 – Identification

Product Identifier: Barbicide Concentrate

Use of the substance / mixture: Cleaning solution

Name and Address of Responsible Parties:

Renscene Ltd. (On Behalf of King Research, Inc.)

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Section 2 – Hazards Identification

Classification under CLP: H226: Flammable Liquid, Category 3

H314: Skin Corrosion – Category 1A

H400: Aquatic Acute 1

H411: Aquatic Chronic – Category 2

Label Elements:

Signal Word: Danger

Hazard Statements: H226: Flammable liquid and vapour.

H314: Causes severe skin burns and eye damage.

H400: Very toxic to aquatic life

H411: Toxic to aquatic life with long lasting effects.

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

P260: Do not breathe mist/vapours/spray.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

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

Section 2 – Hazards Identification (continued)

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

P273: Avoid release to the environment.

Hazard Pictogram(s):

Other Hazards: In use, may form flammable / explosive vapour-air mixture.

PBT: This product is not identified as a PBT/vPvB substance.

Section 3 – Composition/Information on Ingredients**Hazardous Ingredients:**

PROPAN-2-OL

EINECS	CAS	PBT / WEL	CLP Classification	Percent
200-661-7	67-63-0	-	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336	10 – 30 %

QUATERNARY AMMONIUM COMPOUNDS, BENZYL C-12-16 ALKYLDIMETHYL, CHLORIDES (BAC 50)

EINECS	CAS	PBT / WEL	CLP Classification	Percent
270-325-2	68424-85-1	-	Acute Tox. 4: H302; Skin Corr. 1A: H314; Aquatic Chronic 1: H410; Skin Corr. 1B: H314; Skin Corr. 1C: H314	1 – 10 %

SODIUM NITRITE

EINECS	CAS	PBT / WEL	CLP Classification	Percent
231-555-9	7632-00-0	-	Ox. Sol. 3: H272; Acute Tox. 3: H301; Aquatic Acute 1: H400	1 – 10 %

TETRASODIUM ETHYLENE DIAMINE TETRAACETATE

EINECS	CAS	PBT / WEL	CLP Classification	Percent
200-573-9	64-02-8	-	Acute Tox. 4: H30; Eye Dam. 1: H318	1 – 10 %

Section 4 – First-Aid Measures

Description of first aid measures:

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious and breathing is OK, place in the recovery position. If conscious, ensure the casualty sits or lies down. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning.

Eye contact: Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

Ingestion: Wash out mouth with water. Do NOT induce vomiting. Give 1 cup of water to drink every 10 minutes. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible.

Most important symptoms and effects, both acute and delayed:

Skin Contact: Blistering may occur. Progressive ulceration will occur if treatment is not immediate.

Eye Contact: Corneal burns may occur. May cause permanent damage.

Ingestion: Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.

Inhalation: There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.

Indication of any immediate medical attention and special treatment needed:

Treat symptomatically

Section 5 – Fire-Fighting Measures

Extinguishing media:

Suitable extinguishing media: Water spray, Carbon dioxide, Dry chemical, Foam

Unsuitable extinguishing media: Not available

Special hazards arising from the substance or mixture: Corrosive. In combustion emits toxic fumes. Highly flammable. Vapour may travel considerable distance to source of ignition and flash back. Forms explosive air-vapour mixture.

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6 – Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Notify the police and fire brigade immediately. Mark out the contaminated area with signs and prevent access to unauthorized personnel. Do not attempt to take action without suitable protective clothing – See section 8 of SDS. Turn leaking containers leak-side-up to prevent the escape of liquid. Refer to section 8 of SDS for personal protection details. Eliminate all sources of ignition.

Environmental precautions:

Do not discharge into drains or rivers. Contain the spillage using bunding.

Methods and materials for containment and clean up:

Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Do not use equipment in clean-up procedure which may produce sparks.

Section 7 – Handling and Storage

Precautions for safe handling:

Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air. Smoking is forbidden. Use non-sparking tools.

Conditions for safe storage:

Store in a cool, well-ventilated area. Keep container tightly closed. Must only be kept in original packaging.

Incompatible materials:

Strong oxidizers, Strong acids.

Section 8 – Exposure Controls/Personal Protection

PROPAN-2-OL

State	Workplace Exposure Limits		Respirable Dust	
	8 Hour TWA	15 Min. STEL	8 Hour TWA	15 Min. STEL
UK	999 mg/m ³	1250 mg/m ³	-	-

DNEL / PNEC Values: No data available

Exposure controls:

Engineering Measures: Ensure there is sufficient ventilation of the area. Ensure lighting and electrical equipment are not a source of ignition.

Section 8 – Exposure Controls/Personal Protection (Continued)

Respiratory measures: Self-contained breathing apparatus must be available in case of emergency.

Hand Protection: Impermeable gloves.

Eye Protection: Tightly fitting safety goggles. Ensure eye bath is to hand.

Skin Protection: Impermeable protective clothing.

Section 9 – Physical and Chemical Properties

State: Liquid

Colour: Clear Dark Blue Liquid

Odour: Alcohol/disinfectant odour.

pH: 10.0-12.0

Melting/Freezing pointing: Not available

Boiling point and boiling range: > 100C

Flash point: > 33.3°C

Evaporation point (Butyl Acetate=1): Not available

Flammability (method determination): Small Scale closed cup, ASTM D3278/D3828

Lower flammability limit (% by vol.): Not available

Upper flammability limit (% by vol.): Not available

Vapor pressure: Not available

Oxidising: Non-oxidising (by EC criteria)

Relative density: 0.99-1.02

Solubility in water: Complete

Partition Coefficient (n-octanol/water): Not available

Viscosity: Non-viscous

VOC (g/L) = 14%

Volatile organic compounds: Isopropyl alcohol, Dimethyl benzyl ammonium chloride

Other physical/chemical comments: No addition information.

Section 10 – Stability and Reactivity

Reactivity: Stable under recommended transport or storage conditions

Chemical stability: Stable under normal conditions. Stable at room temperature.

Possibility of hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

Conditions to avoid: Heat. Hot surfaces. Sources of ignition. Flames.

Incompatible materials: Strong oxidising agents. Strong acids.

Hazardous decomposition products: In combustion emits toxic fumes.

Section 11 – Toxicological Information

Toxicity Values:

Route	Species	Test	Value	Units
Oral	RAT	LD50	5000	mg/kg
Oral	RBT	LD50	12800	mg/kg

Hazardous Ingredients:

PROPAN-2-OL

Route	Species	Test	Value	Units
IVN	RAT	LD50	1088	mg/kg
ORL	MUS	LD50	3600	mg/kg
ORL	RAT	LD50	5045	mg/kg
SCU	MUS	LDLO	6	gm/kg

SODIUM NITRITE

Route	Species	Test	Value	Units
ORL	MUS	LD50	175	mg/kg
ORL	RAT	LD50	180	mg/kg
SCU	RAT	LD50	96600	µg/kg

Relevant Hazards for product:

Hazard	Route	Basis
Skin Corrosion/Irritation	DRM	Hazardous: Calculated
Serious Eye Damage/Irritation	OPT	Hazardous: Calculated

Symptoms / Routes of Exposure:

Skin contact: Blistering may occur. Progressive ulceration will occur if treatment is not immediate.

Eye contact: Corneal burns may occur. May cause permanent damage.

Ingestion: Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.

Inhalation: There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.

Section 12 – Ecological Information

Ecotoxicity Values: No data available

Persistence and degradability: This product itself has not been tested.

Section 12 – Ecological Information (Continued)

Bioaccumulative potential: This product itself has not been tested.

Mobility: Readily absorbed into soil

PBT identification: This product is not identified as a PBT/vPvB substance.

Other adverse effects: None known

Section 13 – Disposal Considerations

Disposal Operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

Recovery Options: The product should not be allowed to enter drains, water courses or the soil. Dispose of as hazardous waste in compliance with local and national regulations. According to the European Waste Catalogue, waste codes are not specific, but application specific.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14 – Transportation Information

UN No.:	UN2924
UN Proper shipping name:	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Isopropyl alcohol)
Transport hazard class(es):	3 (8)
Packing group:	III
Environmentally Hazardous:	Yes
Special Precautions:	Not regulated per alcohol exemption or Limited Quantity Exemption
Tunnel Code:	C/E
Transport Category:	3

Section 15 – Regulatory Information

Safety, Health, and Environmental regulations/legislation specific for the substance or mixture: Not Applicable

Chemical Safety Assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16 – Other Information

Other Information: According to Regulation (EC) No. 1907/2006 (Reach) with its amendment Regulation (EU) 2015/830.

Phrases used in s.2 and s.3: H225: Highly flammable liquid and vapour.
H226: Flammable liquid and vapour.
H272: May intensify fire; oxidiser.
H301: Toxic if swallowed.
H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H318: Causes serious eye damage.
H319: Causes serious eye irritation.
H336: May cause drowsiness or dizziness.
H400: Very toxic to aquatic life
H410: Very toxic to aquatic life with long lasting effects
H411: Toxic to aquatic life with long lasting effects.

Disclaimer

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