

Rad-Save

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Name: Rad-Save

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

Use of substance / mixture: A liquid corrosion and scale inhibitor. Shake well before use A dose of

1000ml is needed for 100 L of water i.e. 1% (vol/vol)

1.3. Details of the supplier of the safety data sheet

Company Name: SafeSol Ltd

Henry Robson Way South Shields Tyne and Wear NE33 1RF

1.4. Emergency telephone number

0191 447 8008

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Eyelrrit.2: H319

2.2. Label elements

Label Elements under CLP:

Hazard statements: H319: Causes serious eye irritation.

Signal word: Warning

Hazard pictograms:



Precautionary statements: P264: Wash skin thoroughly after handling. P280: Wear protective

gloves/protective clothing/eye protection/face protection. P305+351+338: IFIN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P337+313 : If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

PBT: This substance is not identified as a PBT substance

Printed: 12-Apr-21 Revision: 1 Revision Date: 12-April-21 Page 1 of 6

SafeSol Ltd SAFETY DATA SHEET Rad-Save

Section 3: Composition/information on ingredients

3.2. Hazardous ingredients							
Ingredients	EINECS	CAS	Reach Reg No.	CLP Class	Percent		
SODIUM NITRATE	231-554-3	7631-99-4	01- 2119488221- 41	Ox.Sol.2: H272;EyeIrrit.2: H319	1-10%		
DODECANEDIOIC ACID	211-746-3	693-23-2		Eyelrrit.2: H319	1-10%		
BENZOTRIAZOLE	202-394-1	95-14-7	01- 2119979079- 20		1-10%		
BRONOPOL (INN)	200-143-0	52-51-7	01- 2119980938- 15	AcuteTox.4: H302;AcuteTox.4: H302;STOTSE3: H335;SkinIrrit.2: H315;EyeDam.1: H318;AquaticAcute1: H400	<1%		

Contains:

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water.

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

specialist examination.

Ingestion: Wash out mouth with water.

Inhalation: Not applicable.

4.2. Most important symptoms and effects, both acute and delayed

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be pain and redness. The eyes may water profusely. There may

be severe pain. The vision may become blurred.

May cause permanent damage.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and

stomach pain may occur.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used.

Use water spray to cool containers.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes.

5.3. Advice for fire-fighters

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

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section of SDS.

Turn leaking containers leak-side up to prevent the escape of liquid.

Printed: 26-Feb-19 Revision: 2 Revision Date: 26-May-15 Page 2 of 6

Rad-Save

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

Section 7: Handling and Storage

7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Avoid the formation or spread of mists in the air.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area.

Keep container tightly closed.

Suitable packaging: Polyethylene. Unsuitable packaging: metals and alloys.

7.3. Specific end use(s)

Specific end use(s): No data available.

Section 8: Exposure controls/personal protection

8.1. Control Parameters

8.1. DNEL/PNEC Values

DNEL / PNEC: No data available

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

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

Hand protection: Protective gloves.

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

Skin protection: Protective clothing.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Viscous liquid Solubility in water: Miscible in all proportions

Colour: Amber Relative density: 1.109 pH: 7.5-7.8

Odour: Astringent

Viscosity Test Method:

Boiling Point / Range: Melting Point / Range:

Vapour Press:

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

Printed: 26-Feb-19 Revision: 2 Revision Date: 26-May-15 Page 3 of 6

Rad-Save

10.2. Chemical stability

Chemical Stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials

10.4. Conditions to avoid

Conditions to avoid: Heat.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

Hazardous decomposition products: In combustion emits toxic fumes.

Section 11: Toxicological information

11.1. Information on toxicological effects

BRONOPOL (INN)

SKN	RAT	LD50	1600	mg/kg
SKN	MUS	LD50	4750	mg/kg
ORL	RAT	LD50	180	mg/kg
ORL	MUS	LD50	270	mg/kg

SODIUM NITRATE

ORL	RAT	LD50	1267	mg/kg
IVN	MUS	LD50	175	mg/kg

Effects of mixture

Calculated

11.2. Symptoms / routes of exposure

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be pain and redness. The eyes may water profusely. There may

be severe pain. The vision may become blurred.

May cause permanent damage.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and

stomach pain may occur.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values: Not applicable

12.2. Persistence and degradability

Persistence and degradability: Biodegradable.

12.3. Bio accumulative potential

Bioaccumulative potential: No bioaccumulation potential.

12.4. Mobility in soil

Mobility in solid: Readily absorbed into soil.

12.5. Results of PBT and vPvB assessment

PBT identification: This substance is not identified as a PBT substance

Printed: 26-Feb-19 Revision: 2 Revision Date: 26-May-15 Page 4 of 6

Rad-Save

12.6. Other adverse effects

Other adverse effects: Negligible ecotoxicity.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised

disposal company.

Disposal of packaging: Return empty containers to the supplier for recycling. Damaged containers

should be destroyed by cutting up or by incineration.

Do not use for potable water.

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

regulations regarding disposal.

Section 14: Transport information

14.1. UN Number

UN number: -

14.2. UN Proper shipping name

Shipping name: NOT CLASSIFIED AS DANGEROUS IN THE MEANING OF TRANSPORT

REGULATIONS.

14.3. Transport hazard class(es)

Transport class:

14.4. Packing Group

Packing group:

14.6. Special precautions for user

Tunnel Code:

Transport category:

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture 15.2. Chemical Safety Assessment

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

Chemical safety assessment: This safety data sheet is prepared in accordance with Commission

Regulation (EU) No 453/2010

Phrases used in s.2 and 3: H272: May intensify fire; oxidiser.

H302: Harmful if swallowed.

H312: Harmful in contact with skin.

H315: Causes skin irritation.

H318: Causes serious eye damage.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

H400: Very toxic to aquatic life.

H411: Toxic to aquatic life with long lasting effects.

R20/22: Harmful by inhalation and if swallowed.

R21/22: Harmful in contact with skin and if swallowed.

R36: Irritating to eyes.

R37/38: Irritating to respiratory system and skin.

R41: Risk of serious damage to eyes. R50: Very toxic to aquatic organisms.

Printed: 12-Apr-21 Revision: 1 Revision Date: 12-Apr-21 Page 5 of 6

SafeSol Ltd **SAFETY DATA SHEET Rad-Save**

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R8: Contact with combustible material may cause fire.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

Printed: 12-Apr-21 Revision: 1 Revision Date: 12-Apr-21 Page 6 of 6