

R SQUARED CHEMICALS LLC**SAFETY DATA SHEET
Bio Gen Active® Scale 130****1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

1.1 Product identifier

Bio Gen Active® Scale 130

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

Relevant use: Industrial cleaner

1.3 Details of the supplier of the safety data sheetBio Gen Active AB
Sågvägen 9
SE-843 41 Gällö
SwedenTelephone: +46 693 66 12 10
Tele fax: +46 693 206 49
E-mail address: info@biogenactive.com**1.4 Emergency telephone number**Chemical Emergency Service (Sweden) +46 20 99 60 00
Chemical Emergency Service (USA) 918-520-2384**2. HAZARDS IDENTIFICATION**

2.1 Classification of the substance or mixture

H319 Causes serious eye irritation

2.2 Label elements**Warning**

H319 Causes serious eye irritation

P280 Wear eye protection.

P305/351/338/337/313 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. If eye irritation persists get medical advice/attention.

2.3 Other hazards

No other hazards known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

According to CLP 1272/2008/EC

Substances	Index no	CAS no	EC no	Content	Classification
Citric acid	-	77-92-9	201-069-1	30-50 %	Eye Irrit. 2; H319
Bio Gen Active®	-	92129-93-6	295-893-9	15-25 %	-

Ingredients according to EC nr 648/2004
Potassium sorbate

4. FIRST AID MEASURES

4.1 Description of first aid measures

In case of skin contact
Rinse with water.

In case of eye contact
Rinse with plenty of water. Seek medical advice if irritation persists.

In case of ingestion
Rinse mouth with plenty of water. If the product has been swallowed drink 1-2 glasses of water or milk. Seek medical advice if irritation persists in mouth or throat.

4.2 Most important symptoms and effects, both acute and delayed

Irritating to eyes.

4.3 Indication of any immediate medical attention and special treatment needed

Provide facilities for rinsing eyes.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

All normal firefighting agents can be used.

5.2 Special hazards arising from the substance or mixture

The product itself does not form any hazardous substances when heated.

5.3 Advice for firefighters

Wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Safety goggles or face visor are recommended.

6.2 Environmental precautions

Small amounts – Rinse area with water. Large amounts - Neutralize the product with sodium carbonate or other diluted alkali with precaution, then rinse the area with water.

6.3 Methods and material for containment and cleaning up

Neutralize with sodium carbonate or other alkaline substance according to local regulations.

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6.4 Reference to other sections

For personal protection see section 8.

For waste treatment see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Be careful at times when there is risk of eye contact.

7.2 Conditions for safe storage, including any incompatibilities

No specific precautions are necessary and there are no known risks with normal storage.

7.3 Specific end use(s)

For optimum performance the product should be stirred or homogenized in some other way before use. Expire date for unopened package is 3 years from manufacture date.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

The product contains no substances with occupational limit values.

8.2 Exposure controls

Eye protection

Safety goggles when there is risk of eye contact.

Hand protection

Safety gloves at long-term or repeated skin contact. The material should be nitrile or latex and the thickness at least 0,1 mm.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Light yellow liquid
Odour:	Slightly sour
Odour control:	no available data
pH:	1,3 ± 0,3
Melting point:	ca 0°C
Boiling point:	ca 100°C
Flash point:	not flammable
Evaporation rate:	no available data
Flammability:	not flammable
Upper explosive limits:	not explosive
Lower explosive limits:	not explosive
Vapour pressure:	no available data
Vapour density:	no available data
Density:	1,15 ± 0,02 kg/l (20°C)
Solubility:	Readily soluble in water and alcohol
Partition coefficient:	
n-octanol/water	no available data
Auto-ignition temperature:	N/A
Decomposition temperature:	N/A
Viscosity:	no available data
Explosive properties:	not explosive
Oxidising properties:	not oxidizing

9.2 Other information

This safety data sheet carries information connected to safety and does not replace information or specifications of the product.

10. STABILITY AND REACTIVITY

10.1 Reactivity

May react with alkaline substances.

10.2 Chemical stability

Stable under normal circumstances.

10.3 Possibility of hazardous reactions

No dangerous reactions known during conditions of normal use.

10.4 Conditions to avoid

No known.

10.5 Incompatible materials

May react with alkaline substances.

10.6 Hazardous decomposition products

No known.

11. TOXICOLOGICAL INFORMATION

11.1 Information on the toxicological effects

Acute toxicity

Citric acid

LD50 Oral rat 5400 mg/kg

LD50 Dermal >2000 mg/kg

Irritation

Irritating to the eyes

Corrosivity

Not corrosive

Sensitization

No sensitising effect known – the product is not expected to cause sensitisation

Repeated dose toxicity

No toxic effect known - product is not expected to be toxic

Carcinogenicity

No carcinogenic effect known – the product is not expected to be carcinogenic

Mutagenicity

No mutagenic effect known – the product is not expected to be mutagenic

Toxicity for reproduction

No reproduction toxicity known – the product is not expected to be toxic to reproduction

12. ECOLOGICAL INFORMATION

The product is classified as not hazardous for the environment. This classification is based on content of formulation.

12.1 Toxicity

Bio Gen Active®

LC50 96h Fish >1000 mg/l
LC50 48h Daphnia >300 mg/l
EC50 72h Algae >300 mg/l

Citric acid

LC50 48h Fish 440 mg/l
LC50 24h Daphnia 1535 mg/l
8d Algae 425 mg/l

12.2 Persistence and degradability

All active substances are readily biodegradable according to OECD standard tests.

Bio Gen Active®

>90 % degraded after 7 days

12.3 Bio accumulative potential

The active substances are not bio accumulative according to OECD standard tests.

12.4 Mobility in soil

Some mobility in soil can be expected.

12.5 Results of PBT and vPvB assessment

The product is not PBT or vPvB.

12.6 Other adverse effects

No other adverse effects are expected.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

The product is classified as hazardous waste HP 4. Recommended user solution is not classified as hazardous waste.

If possible, reuse or recycle leftover product and packaging.

The environmental impact resulting from the use of this product depends on the type of cleaning object, dirt/coating and whether the product is used as instructed. Waste must be managed with in accordance with official requirements for the type of waste in question.

The low pH of the product may be neutralized with sodium carbonate or other diluted alkaline in accordance with local regulations.

14. TRANSPORT INFORMATION

No transport restrictions.

Not classified as dangerous goods according to IMDG, ADR, RID and ADN.

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislations specific for the substance or mixture

No further regulations/legislations than those mentioned in this Safety Data Sheet are required for the mixture.

15.2 Chemical safety assessment

A chemical safety assessment is not required for this mixture.

16. OTHER INFORMATION

Explanation for abbreviations in section 3

H319 Causes serious eye irritation

Explanation for abbreviations in section 12

PBT Persistent, Bioaccumulating, Toxic
vPvB very Persistent, very Bioaccumulating

Clarification on classification

The mixture is classified according to the containing acid which is classified as H319. Hence, the product is classified as H319, despite a pH below 2.

The information in this safety data sheet is according our information and as far as we know correct at the given date for revision. This document is only intended to be used as guidance for safe handling, use, storage, transport and waste treatment and shall not be seen as a guarantee or quality specification. The information is only applied to the given product and is not valid for this product used in combination with some other material or process if not mentioned.

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