

Kamco Limited

Material Safety Data Sheet

Scalebreaker SR

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier	Scalebreaker SR sulphamic acid blend
1.2 Relevant identified uses of the substance or mixture and uses advised against	Intended use: descaling
1.3 Details of the supplier of the SDS	Kamco Ltd Unit 9, Curo Park Frogmore St Albans, Herts. AL2 2DD. E-mail: info@kamco.co.uk
1.4 Emergency telephone number:	01727 875020 (Monday – Friday 9.00 – 17.00 hrs GMT)

SECTION 2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture	<u>Classification to CLP ((EC) No 1272/2008):</u> Skin Irrit.2; H315 Eye Irrit. 2; H319 ----- <u>Classification to DPD (1999/45/EC) and CHIP:</u> Irritant Xi;R36/38
<i>see section 16 for full text of H-and R-phrases</i>	
2.2 Label elements	Labelling in accordance with CLP ((EC) No 1272/2008)  WARNING <i>Note: only the text is required on the label (not the statement codes)</i> H315 Causes skin irritation H319 Causes serious eye irritation H412 Harmful to aquatic life with long lasting effects P264 Wash hands thoroughly after handling P273 Avoid release to the environment P280 Wear protective gloves/ protective clothing/eye protection/ face protection P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. P501 Dispose of contents/container to: An approved recycle or waste disposal facility. P102 Keep out of reach of children EUH210 Safety data sheet available on request.
2.3 Other hazards	Contains Thiourea No other information is available.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous
Ingredients:

*see section 16 for full
text of classification
phrases*

Name	EC No.	CAS No.	DSD Classification	CLP Classification	%
Sulphamic acid REACH reg. no 01-2119488633-28-	226-218-8	5329-14-6	Xi; R36/38 R52/53	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Aqu. Chron. 3; H412	99+
Thiourea REACH reg. no. 01-2119977062-37-	200-543-5	62-56-6	Xn; R22, R40, R63 N; R51/53	Acute Tox. 4; H302 Carc. 2; H351 Repr. 2; H361d Aqu. Chron.2; H411	< 0.2

SECTION 4 FIRST AID MEASURES

4.1 Description of first aid measures

Skin contact: In case of contact, wash immediately with soap and plenty of water.

Eye contact: In case of contact, rinse immediately with plenty of water, also under the eyelids, for at least 5 minutes. Consult an eye specialist immediately. Go to an ophthalmic hospital if possible.

Ingestion: Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

Inhalation: Remove to fresh air.

4.2 Most important symptoms and effects, both acute and delayed

Skin contact: Irritation or pain may occur at the site of contact. There may be redness or whiteness of the skin in the area of exposure. Repeated or long exposure can cause reddening, burning and blisters.

Eye contact: There may be irritation and redness. There may be severe pain. Corneal burns may occur. Repeated exposure may cause chronic eye irritation. May cause mechanical irritation to the eyes.

Ingestion: There may be soreness and redness of the mouth and throat. May cause irritation of the gastrointestinal tract. Nausea and stomach pain may occur. There may be vomiting and diarrhoea.

Inhalation: High concentrations are irritant to the respiratory tract. May cause irritation of the mucous membranes and respiratory system. May cause shortness of breath, sneezing and coughing. Prolonged or repeated exposure may cause ulceration and perforation of the nasal septum.

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

Treat symptomatically.

Eye bath should be available on the premises

SECTION 5 FIREFIGHTING MEASURES

5.1 Extinguishing media

Water spray. Carbon dioxide. Alcohol or polymer foam. Dry chemical powder. Use water spray to cool containers

5.2 Specific hazards arising from the substance or mixture

In combustion emits toxic fumes of sulphur oxides. In combustion emits toxic fumes of nitrogen oxides. May liberate Ammonia vapours during combustion. Keep containers exposed to fire cool with water spray.

5.3 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	Select appropriate protective clothing for the size of the spillage. Avoid contact with skin and eyes.
6.2 Environmental precautions	Do not flush into surface water or sanitary sewer system.
6.3 Methods and material for containment and cleaning up	Transfer to a closable, labelled salvage container for disposal by an appropriate method. Wash the spillage site with large amounts of water.
6.4 Reference to other sections	Personal protective equipment: See section 8

SECTION 7 HANDLING AND STORAGE

7.1 Precautions for safe handling	Wear suitable protective clothing. Ensure there is sufficient ventilation of the area. Avoid the formation or spread of dust in the air. Avoid contact with the material and breathing its dust. Prevent contact with water.
7.2 Conditions for safe storage, including any incompatibilities	Keep container tightly closed. Keep container in a cool, well-ventilated area. Keep only in the original container. Keep away from heat.
7.3 Specific end use(s)	Descaling

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters	Workplace Exposure Limits LTEL 8hr: 4 mg/m ³ (respirable dust) DNEL (oral/dermal): 5 mg/kgbw/day
8.2 Exposure controls	Refer to protective measures listed in sections 7 and 8. Dust respirator - be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Wear acid-resistant gloves and replace at first signs of wear. Eye protection: Tightly fitting safety goggles Skin and body protection: overalls Environmental exposure controls: Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. If the product contaminates rivers and lakes or drains, inform respective authorities. If material reaches soil inform authorities responsible for such cases.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties – does not constitute a specification	
Appearance	Pink / orange crystalline powder
Odour	odourless
Odour threshold	no data available
pH (aqueous solution)	Acidic
Melting Point/Freezing point (°C)	205 C (decomposition)
Initial boiling point/boiling range (°C)	no data
Flash Point (°C)(closed cup)	not applicable (non-flammable)
Evaporation rate	no data available
Flammability	not applicable (non-flammable)
Upper/lower flammability limits	not applicable (non-flammable)
Vapour pressure (mbar @ 20°C)	~0.78 Pa
Vapour density	No data
Relative Density (@15.5°C)	2.1 kg/l
Solubility in water	Soluble
Solubility in fat / solvent	not miscible
Partition coefficient (log Pow)	No data
Autoignition temperature (°C)	not applicable (non-flammable)
Decomposition temperature	no data available
Viscosity (mPa.s @ 20°C)	not applicable
Explosive properties	No data
Oxidising properties	Not oxidising
9.2 Other information	None

SECTION 10 STABILITY AND REACTIVITY

10.1 Reactivity	No information available
10.2 Chemical stability	No decomposition if stored and applied as directed.
10.3 Possibility of hazardous reactions	None reasonably foreseeable.
10.4 Conditions to avoid	Avoid high temperatures (>50 °C) and high humidity
10.5 Incompatible materials	Sulphuric acid. Hydrochloric acid Bases. Strong oxidising agents. Amines. Chlorine. Ammonia & ammonia solutions
10.6 Hazardous decomposition products	In combustion emits toxic fumes of sulphur oxides, nitrogen oxides. May release ammonia fumes.

SECTION 11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects	
Acute Toxicity	
-oral	Acute oral toxicity: LD50: 316 mg/kg [Rat].
-inhalation	no information
-dermal	no information
Corrosivity/Irritation	
-eye	Irritating to eyes
-skin	Irritation to skin
Sensitisation -skin	no sensitising effects known
Ames test	not mutagenic
Other relevant toxicity information	Handle in accordance with good industrial hygiene and safety practice.

SECTION 12 ECOLOGICAL INFORMATION

12.1 Toxicity	Fish LC50 96h.: 70 mg/l. (Pimephales promelas) Fish EC50 72h.: 48 mg/l (Desmodesmus subspicatus) Daphnia EC50 24h.: 72 mg/l (daphnia)
12.2 Persistence and degradability	Slowly biodegradable
12.3 Bioaccumulative potential	No information available
12.4 Mobility in soil	No information available. Soluble in water.
12.5 Results of PBT and vPvB assessment	No known PBT or vPvB chemicals present
12.6 Other adverse effects	Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment Avoid subsoil penetration Do not flush into surface water or sanitary sewer system.

SECTION 13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods	
Waste Residue:	Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not let product enter drains. Contact waste disposal services. European Waste Code: No European Waste Code assigned for this product. The waste code is established in consultation with the regional waste disposer.
Packaging:	Contaminated packaging: Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. Packagings that cannot be cleaned are to be disposed of in the same manner as the product

SECTION 14 TRANSPORT INFORMATION

Not classified as non dangerous goods (CDG/ADR/IMDG/ICAO/IATA)

14.1 UN Number	UN2967
14.2 UN Proper shipping name	SULPHAMIC ACID
14.3 Transport hazard class(es)	8
14.4 Packing group	III
14.5 Environmental hazards	Not EHS/MP
14.6 Special precautions for user	See sections 8 and 9
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable

SECTION 15 REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture	Supply regulations: Classified as hazardous under DSD/GHS/CLP (DSD: Dangerous Substances Directive; GHS: Globally Harmonised system of classification and labelling of chemicals; CLP: Classification, Labelling and Packaging regulations) Transport regulations: Classified as Dangerous Goods for Carriage under ADR/RID/IMDG/ICAO/IATA
15.2 Chemical Safety Assessment	No formal chemical safety assessment has been carried out

SECTION 16 OTHER INFORMATION

Full text of classification data in sections 2 and 3:

H315	Causes skin irritation.
H319	Causes serious eye irritation
H412	Harmful to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects
H302	Harmful if swallowed
H351	Suspected of causing cancer
H361d	Suspected of damaging the unborn child.
R36/38	Irritating to eyes and skin
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R22	Harmful if swallowed
R40	Limited evidence of a carcinogenic effect
R63	Possible risk of harm to the unborn child
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements

and is not to be considered as a warranty or quality specification and does not constitute a legal relationship. The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text