

SAFETY DATA SHEET

1. Product and Company Identification

Company Name: Sierra Aust Pty Ltd
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Product Name: **RG Decarebonizer**
Product Code: 6109 20Ltr
Intended Use: Decarboniser/Cleaner
Chemical Nature: Lightly alkaline solution of detergents and citrus extract

2. Hazards Identification

Acute Toxicity: Oral, Category 4
Skin Irritation: Category 3
Serious Eye Damage/Irritation: Category 2B



GHS Signal Word: **Warning**
GHS Hazard Phrases: H302 Harmful if swallowed.
H315 Causes Skin irritation.
H318 Causes serious eye irritation

Precautionary Statements:

Prevention: P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves and eye protection.

Response: P301+P312 IF SWALLOWED: Call POISONS INFORMATION CENTRE or a doctor if you feel unwell.
P330 Rinse mouth. P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P321 Use moisturizing cream.
P332+P313 If skin irritation occurs: Get medical attention.
P362 Take off contaminated clothing and wash before use.
P305+P351+P388 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical attention.

Storage: Keep closed and away from children. Keep away from heat or flame.

3. Composition / Information on Ingredients

Substance / Mixture: Mixture
Product Description: Decarboniser/Cleaner

Chemical Name	Cas Number	% In Product
Sodium Hydroxide	1310-73-2	<2%
D-Limonene	5989-27-5	<10%
Ethoxylated Alcohol	secret	<10%
Other ingredients not classified as hazardous		

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if applicable are listed in section 8.

4. First aid Measures

Description of necessary first aid measures

Eye Contact: Wash eyes immediately with large amounts of water.

Inhalation: Move person to fresh air at once. If breathing has stopped, get medical attention immediately.
Skin Contact: Wash contacted areas with mild soap and water.
Ingestion: Do not induce vomiting. If person is conscious, give water. Get medical attention.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact: Can cause severe irritation, redness, tearing, and blurred vision.
Inhalation: Fine mist may cause irritation of the nose and throat.
Skin Contact: Any contact can cause moderate irritation.
Ingestion: Gastrointestinal irritation.

Over exposure signs/symptoms

Eye contact:	Adverse symptoms may include the following:	Irritation
Inhalation:	Adverse symptoms may include the following:	No significant effect.
Skin Contact:	Adverse symptoms may include the following:	Irritation
Ingestion:	Adverse symptoms may include the following:	Gastrointestinal

Indication of immediate attention and special treatment needed, if necessary

Notes to Physician: Treat symptomatically. Contact Poisons Information Centre if large quantities have been ingested or inhaled.
Specific Treatments: No specific treatment.
Protection of First Aiders: No action should be taken involving any personal risk or without suitable training. Wash contaminated clothing thoroughly with water before removing it.

5. Fire Fighting Measures

Extinguishing Media

Suitable Extinguishing Media: Regular Foam, Waterfog, Carbon Dioxide, or Dry Chemical
Unsuitable Extinguishing Media: None known.
Specific Hazards arising from the Chemical: This product is not a combustible liquid.

Hazardous thermal decomposition products

Flash Point: Does not burn
Upper Flammability Limit: Does not burn
Lower Flammability Limit: Does not burn
Special protective actions for fire fighters: If there is a fire, promptly isolate the scene by removing all persons from the vicinity of the incident
Special protective equipment for fire fighters: Fire fighters should wear appropriate protective equipment and self contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Hazardous decomposition: Oxides of carbon or traces of hydrocarbons may be formed in small amounts
Special Fire Fighting Procedures: Clear fire area of personnel. Do not enter confined fire area without full bunker gear and positive pressure breathing apparatus.
Unusual Fire/Explosion Hazards: Not listed.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No smoking or flares in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel"
Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air)

Methods and materials for containment and cleaning up

Small spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water soluble.

Alternatively, or if water insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Use spark proof tools and explosion proof equipment. Dispose via a licensed waste disposal contractor.

Large spill: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non combustible, absorbent material e.g. sand, earth, vermiculite or Diatomaceous earth and place in container for disposal according to local regulations (see section 13). Use spark proof tools and explosion proof equipment. Dispose via a licensed waste contractor. Contaminated absorbent material may pose the same hazard.

Use gloves, goggles, Boots and Breathing Mask. Small amounts do not need special measures. Clean up with water. For large spills, remove all sources of ignition. Ventilate area. Absorb with an inert absorbent material. Avoid runoff into drains and sewers. All used and unused product should be disposed of in accordance with local, state and federal regulations.

7. Handling and Storage

Precautions for safe handling: Put on appropriate protective equipment (see section 8). Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, keep tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Do not reuse container. Wash thoroughly after use.

Conditions for safe storage: Store in original container protected from direct sunlight in a dry, cool and well ventilated area, away from incompatible materials (see section 10) and food and drink. Do not store in unlabelled containers. Do not weld on or near containers either empty or full. Secure all chemicals out of the reach of children.

8. Exposure Controls and Personal Protection

Control Parameters

Occupational exposure limits

Ingredient Name	CAS#	TWA (mg/m ³)	STEL (mg/m ³)
Sodium Hydroxide	1310-73-2	2	2
D-Limonene	5989-27-5	not set	not set

Appropriate Engineering Controls: No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual Protection Measures

Hygiene Measures: Wash hands forearms and face thoroughly after handling chemical products.
Eye/Face Protection: Wear chemical safety goggles and face shield
Skin Protection: Avoid skin contact. Wear gloves impervious to conditions of use.
Respiratory Protection: Use a properly fitted, air purifying or air fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

9. Physical and Chemical Properties

Physical State:	Liquid	Specific Gravity:	1.02
Colour:	Orange	Vapour Pressure:	<1 (low volatile)
Odour:	Citrus	Volatiles:	98%
pH:	12.5	Vapour Density:	>1 fall in air
Boiling Point:	100°C	Solubility:	100%
Flash Point:	n/a	Evaporation Rate:	<=Water

Volatile Organic compound (VOC) content for Consumer Products Applications Percent by weight: 1%

10. Stability and Reactivity

Reactivity: No specific test data related to reactivity available for this product or its ingredients.
Chemical Stability: The product is stable.
Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions if Instability: When exposed to high temperatures colour may fade and bottles may panel.
Conditions to Avoid:
Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological Information

Toxicological Information: No data available

Cas #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
1310-73-2	Sodium Hydroxide	n.a.	n.a.	n.a.	n.a.
5989-27-5	D-Limonene	n.a.	n.a.	n.a.	n.a.

12. Ecological Information

Ecotoxological Data

Product	Species	Test Results
D-Limonene (CAS 5989-27-5)		
Aquatic		
Acute		
Crustacea	EC50 Water flea (Daphnia Magna)	0.36mg/l, 48 hours
Fish	LC50 Flathead Minow (Pimephales Promelas)	0.7mg/l, 96 hours
Ecotoxicity:	Toxic to aquatic life	
Environmental Effects:	Toxic to aquatic organisms	
Aquatic Toxicity:	Toxic to aquatic organisms	
Persistence and Degradability:	Readily biodegradable	

13 Disposal Considerations

The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

14. Transport Information

UN Number: This product is not classified as a Dangerous Good by ADG, IATA or IMDG/IMSBC criteria. No special transport conditions are necessary unless required by other regulations.

15. Regulatory Information

AICS: All of the significant ingredients in this product are compliant with NICNAS regulations.

16. Other Information

This SDS contains only safety related information. For other information see product literature.

Every endeavor has been made to ensure that the information contained in this publication is reliable and offered in good faith. It is meant to describe the safety requirements of our products and should not be construed as guaranteeing specific properties. Customers are encouraged to conduct their own tests as end user suitability of the product for particular uses is beyond our control. The information is not intended as an inducement to bargain and no warranty expressed or implied is made as to its accuracy, reliability or completeness. Sierra (Aust) Pty Ltd accepts no liability for loss, injury or damage arising from reliance upon the information contained in this data sheet except in conjunction with the proper use of the product to which it refers. Due care should be taken that the use and disposal of this product is in compliance with appropriate Federal, State and Local Government regulations.