



Safety Data Sheet

Product Name Regen Shield

Revision 3

Last Reviewed 10/01/2022

1. Identification

Product Name	Shield
Chemical Name	Not available
Other Names	
Chemical Formula	Complex mixture
Manufacturers Code	
CAS Number	N/A
UN Number	N/A
Recommended Use	Improvement of soil and plant growth by addition of smoke compounds to soil.
Restrictions on Use	None known. Not recommended for any use other than described on label

Contact Details of Chemical Manufacturer

Company	Grayson Australia (Tecnica Pty Ltd) ABN 72 006 828 879
Office Address	U4 9 Newcastle Rd, Bayswater VIC Australia 3153
Postal Address	PO Box 134, Bayswater VIC Australia 3153
Telephone	+61 3 8727 6900
Facsimile	N/A
Email	info@graysonaustralia.com
Website	www.graysonaustralia.com

Emergency Contacts

Do NOT contact these organisations for product information. Contact for emergency assistance only.

Immediate Medical Danger 000 (Australia) Use the emergency number for your state/country

Fire 000 (Australia) Use the emergency number for your state/country

During business hours for non-urgent emergency or hazard details

Chemical Information +61 3 8727 6900 or info@graysonaustralia.com

GRAYSON AUSTRALIA

Tecnica Pty Ltd ABN 72 006 828 879

Postal Address: PO Box 134, Bayswater Vic 3153 Australia

Unit 4, 7-9 Newcastle Road, Bayswater Vic 3153 Australia

Tel: 03 8727 6900 Fax: N/A

Email: info@graysonaustralia.com



2. Hazards Identification

Global Harmonised System (GHS) Classification

GHS Classification Classified as HAZARDOUS in accordance with GHS criteria for labelling and classifying of chemicals

Signal Word Warning

Hazard Classes
Skin Corrosion/Irritation: Category 2B
Serious Eye Damage/Irritation: Category 2B

GHS Pictograms Exclamation Mark



Dangerous Goods Class Non-Dangerous Goods

GHS Hazard Statements
H315 Causes skin irritation
H318 Causes serious eye irritation

Non-GHS Statements (Aus)

Precautionary Statements

Prevention statements

P101 If medical advice is needed, have product container or label at hand
P102 Keep out of reach of children
P103 Read label before use
P234 Keep only in original container
P264 Wash hands thoroughly after handling
P280 Wear protective gloves, clothing, eye and face protection

Response Statements

P302 **IF ON SKIN:**
+ P321 - Specific treatment (shown in First Aid Measure on this SDS)
+ P332 +P313- If skin irritation occurs: Get medical attention/advice
+ P352 - Wash with plenty of soap and water
+ P362 - Take off contaminated clothing and wash before reuse
P305 **IF IN EYES:**
+P337 +P313- If eye irritation persists: seek immediate medical attention
+P338 - Remove contact lenses, if present and easy to do. Continue rinsing
+P351 -Rinse cautiously with water for several minutes

Storage Statements

P406 - Store in a corrosion resistant container with a resistant inner liner

Disposal Statements

P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.

3. Composition/Information on Ingredients

Ingredients

Chemical Entity	Liquid Smoke Condensates
Chemical Formula	Various
Common Names	Condensates, Liquid Smoke, Pyrolysis Liquid Extracts
Chemical Family	Organic Compounds
CAS#	N/A
UN#	N/A
Concentration Range	<10%

Chemical Entity	Polyoxyethylene 20 sorbitan monoleate
Chemical Formula	$C_{64}H_{124}O_{26}$
Common Names	Poly, Polysorbate 80, E433
Chemical Family	Organic Compound
CAS#	9005-65-6
UN#	N/A
Concentration Range	<10%

Chemical Entity	Acetic Acid
Chemical Formula	CH_3COOH
Common Names	Ethanoic Acid, E260
Chemical Family	Organic Acid
CAS#	64-19-7
UN#	N/A
Concentration Range	<10%

Chemical Entity	Water
Chemical Formula	H_2O
Common Names	Water, aqua, dihydrogen monoxide
Chemical Family	Inorganic Compound
CAS#	7732-18-5
UN#	N/A
Concentration Range	>60%

4. First Aid Measures

Generic Advice

Seek medical attention or advise from Poison Information Centre, a doctor or physician if exposure has occurred. If any abnormal symptoms are noticed while being exposed or previously exposed to chemical, seek medical advice. If a victim feels unwell, it is necessary to immediately seek medical attention. It is NOT normal to become unwell or experience any symptoms through normal use; if any symptom occurs while using this product treat immediately and appropriately while seeking advice from medical professional or Poison Information Centre.

If Swallowed

Do NOT induce vomiting. If the victim is conscious- rinse mouth of victim liberally. Give a glass of water. If the victim is unconscious or having seizures

do not give anything into their mouth. Seek medical attention.

If on Skin and/or Hair

Flush exposed site with water immediately. Do not stop washing for a minimum of 15 min. Do not stop earlier unless directed by the Poisons Information Centre or a doctor. Soap may be used to help remove insoluble material. Contaminated clothing should be removed and washed before leaving the site or being re-worn. Seek medical advice.

If Inhaled

Move person away from away from the chemical into fresh air. If normal breath does not quickly return seek immediate medical attention. If breathing stops provide artificial respiration. A qualified medical professional may provide oxygen through a face mask. Do not re-enter exposure zone to avoid additional victims until the area is assured to be safe. Ensure clothing and other areas of the victims body have not been contaminated. Apply appropriate first aid as outlined in this section if additional exposures have occurred.

If in Eyes

Flush open eyes with running water for at least 15 min. Do not stop earlier unless directed by the Poisons Information Centre or a doctor. Immediate medical attention is necessary.

Important Symptoms of Exposure

Smoke condensates contain weak acids that can cause irritation to all parts of the body when exposed.

Acute

Irritation to skin and eyes.

Delayed

Long term exposures can cause burns, irritation and dermatitis.

5. Fire-Fighting Measures

Extinguishing Media

Substance is not flammable. Use any extinguisher adequate for surrounding fire and compatible with chemicals in vicinity.

Suitable

Non-suitable

None known.

Hazards from material

None known

Flash Point

Non-combustible

Special Equipment

Fire fighters should wear a self contained breathing apparatus to avoid breathing vapours.

Special Precautions

Material is irritating. Fire fighting water will dilute chemical but will likely remain slightly acidic. Use caution with run-off and avoid spillage into waterways or drains.

Hazchem Code N/A

6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Non-Emergency Personnel	Wear described PPE when responding to spills. Spill may be cleaned with water and caustic/detergent solutions. Collect liquid with absorbant material. Ground will become slippery so care should be taken. If unsure or inexperienced responding to a spill seek experienced chemical spill response assistance.
Emergency Responders	Use suitable protection while responding to release event. All PPE should meet or exceed Australian Standards. All release management strategies should be implemented. If uncontained from site, affected parties should be notified. PPE required (minimum) Eyes- Face Shield or Goggles Gloves- Use Heavy duty nitrile Respiratory Protection- Suit- Coveralls or durable clothing Footwear- Enclosed foot wear

Environmental Precautions

Precautions	Do not allow the product to enter waterways, drains, sewers or to be released uncontained into the environment. If this occurs contact the EPA and the local waste & water authorities to report the release.
Effect of release	Not determined

Methods and Materials for Containment and Cleaning Up

Containment	Material leak should be contained in a bunded area. Drains and other exit points should be covered until material is neutralised and diluted. If it is safe to do so, the leak source should be repaired to prevent further leaks/spills.
Material Removal	Using an absorbent such as sand, dry earth or non-flammable commercial absorbent materials the majority of the material should be collected and stored in an appropriate container. The material should be disposed in at landfill
Clean up	After majority of liquid spill is collected, clean up can start using water with small amounts of commercial cleaning product such as caustic or detergents. Observe all environmental requirements.

7. Handling and Storage

Precautions for Safe Handling

PPE required when handling the chemical includes full covered clothing, enclosed footwear, glasses and gloves. Chemical should be used in bunded

area if possible or over solid ground to make spill clean ups possible.

General Warnings

Eating, drinking and smoking within work areas or in the vicinity of this chemical is prohibited. Wash hands after use. Any contaminated clothing and protective equipment should be removed prior to entering eating areas.

Conditions for Safe Storage, including any incompatibilities

Material should be kept inside the provided container, with the lid firmly shut until point of use. Keep material stored in cool dry place.

8. Exposure Controls and Personal Protection

Control Parameters	Based on Acetic Acid- minor component of Smoke Condensates
Exposure Limits	Australia: TWA 10ppm (25 mg/m ³) - Safe Work Australia STEL 15ppm (37 mg/m ³)- Safe Work Australia Other: TWA 10ppm (25 mg/m ³)- OSHAB STEL No limit allocated- OSHAB
Biological Limits	No data found

Engineering Controls

Use only in a well ventilated area; if possible use local exhaust ventilation. Minimise operator contact where possible.

Individual Protection Measures, such as Personal Protective Equipment (PPE)

General	All PPE should meet or exceed Australian Standards requirements. PPE required depends on level of interaction, PPE appropriate to emergency situations will be different to adjusting dosing equipment. Risk assessments should be undertaken to evaluate the hazard level for chemical interactions and apply policies enforcing suitable PPE for the individual situation.
Eye and face	Wear suitable goggles or protective glasses when interacting with the product to prevent splashing into eyes or face.
Respiratory	Ensure air is well ventilated and sprays of solution are not inhaled.
Hands	Heavy duty nitrile gloves should be worn when interacting with chemical.
Clothing	Coveralls or wear durable covered clothing.

9. Physical and Chemical Properties

Appearance	Gold brown liquid
Odour	Strong wood smoke aroma
Odour Threshold	No data
pH	No data

	2 to 4
Melting/Freezing Point	Not available
Initial Boiling Point and Boiling Range	Not Available
Flash Point	N/A
Evaporation Rate	N/A
Flammability	Not flammable
Upper/Lower Flammability or Explosive Limits	N/A
Vapour Pressure	Not Available
Vapour Density	Not Available
Solubility	Extremely soluble in water
Partition Coefficient: n-octanol/water	Not Available
Auto-ignition Temperature	N/A
Decomposition Temperature	Not Available
Viscosity	Not Available
Release of Invisible Flammable Vapours and Gases	Not Available

10. Stability and Reactivity

Reactivity

Material contains weak acids. Under ambient conditions & contained in supplied container the chemical should not react unless foreign material is added to container.

Chemical Stability

Chemical is stable under normal ambient conditions.

Possibility of Hazardous Reactions

Excessive temperatures may vaporise gas and increase container pressure. This may result in material release.

Conditions to Avoid

High temperatures should be avoided.

Incompatible Materials

Could react with bases.

Hazardous Decomposition Products

None known

11. Toxicological Information

Acute Toxicity

Based on acetic acid

Oral: LD50 20345 mg/kg (rat)

Dermal: No Data Found

Inhalation No Data Found

Skin Corrosion/Irritation

Irritant to skin.

Serious Eye Damage/Irritation

Can cause severe burns to eyes. If severe, blindness may result.

Respiratory or Skin Sensitisation

Sensitisation of respiratory system and/or skin is possible from exposure.

Germ Cell Mutagenicity

No data found

Carcinogenicity

No data found

Reproductive Toxicity

No data Found.

Specific Target Organ Toxicity (STOT)- Single Exposure

No data found

Specific Target Organ Toxicity (STOT)- Repeated Exposure

No data found

Aspiration Hazard

No data found

12. Ecological Information

Toxicity

Due to the corrosive and acidic properties of acetic acid this chemical is chemical is expected to be toxic to the aquatic environment and to any ecosystem where the chemical is uncontained.

Data:

No data found

Persistence and Biodegradability

No data found

Bio accumulative Potential

No data found

Mobility in Soil

No data found

Other Adverse Effects

No other effects to ecosystems known.

13. Disposal Considerations

Disposal Containers and Methods

Can be landfilled

Physical/Chemical Properties that may Affect Disposal Options

None known

Effect of Sewage Disposal

Do not add directly to waste water/sewage supplies. Acidifies aqueous

solutions and may result in escape of chemical into environment.

Special Precautions for Incineration or Landfill

This product is suitable for landfill.

Always contact local authorities to ensure disposal meets local, state and national regulations.

14. Transport Information

UN number

None Allocated

Proper Shipping or Technical Name

Liquid Smoke Condensates

Transport Hazard Class

N/A

Packing Group

N/A

Environmental Hazards for Transport Purposes

Hazardous to environment if release occurs. Follow release instructions in SDS and seek professional chemical response advice for action.

Special Precautions for User

None known.

Additional Information

Transport only in provided containers

Hazchem or Emergency Action Code

N/A

15. Regulatory Information

Poisons Schedule Number

None Allocated

AICS

Listed

16. Other Information

Abbreviations Used

$C_{64}H_{124}O_{26}$ - Polysorbate 80
LC50 -Lethal concentration results in 50% tested population lethality
LD50 -Lethal dose which results in 50% tested population lethality
NaHCO₃ - Sodium Bicarbonate
OSHAB -Occupational Safety and Health Appeals Board
PPE -Personal protective equipment
SDS -Safety data sheet
STEL -Short term exposure limit
STOT -Specific target organ toxicity
TWA -Time weighted average

Revision History and Changes Made

Date of last preparation 10/01/2022

Revision Number 3

Reason for revision Updating to SDS & GHS standard V

Previous revisions 2

