



SAFETY DATA SHEET

KLEENUP GRANULAR

Infosafe No.: X01CT

Version No.: 1.0

ISSUED Date: 06/07/2016

Issued by: SST AUSTRALIA PTY LTD

1. IDENTIFICATION

GHS Product Identifier

KLEENUP GRANULAR

Product Code

9704

Company Name

SST AUSTRALIA PTY LTD

Address

Level 3, 35 Cotham Road, Kew, Victoria 3101
Australia

Telephone/Fax Number

Telephone: 03 9720 6306 Fax number: 03 9720 6407

Emergency phone number

1800 638 556

E-mail Address

compliance@axieo.com

Recommended use of the chemical and restrictions on use

Agricultural spray tank cleaner and decontaminant

2. HAZARD IDENTIFICATION

GHS classification of the substance/mixture

Classified as Hazardous according to the Globally Harmonised System of classification and labelling of chemicals (GHS) including Work, Health and Safety regulations, Australia

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Corrosive to Metals: Category 1

Acute Toxicity - Oral: Category 4

Skin Corrosion/Irritation: Category 1A

Eye Damage/Irritation: Category 1

STOT Single Exposure: Category 3 (respiratory tract irritation)

Hazardous to the Aquatic Environment - Long-Term Hazard: Category 1

Signal Word (s)

DANGER

Hazard Statement (s)

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

H410 Very toxic to aquatic life with long lasting effects.

Pictogram (s)

Corrosion, Exclamation mark, Environment

**Precautionary statement – Prevention**

P234 Keep only in original container.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash contaminated skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statement – Response**GENERAL**

P310 Immediately call a POISON CENTER or doctor/physician.

P390 Absorb spillage to prevent material damage.

P391 Collect spillage.

INGESTION

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P330 Rinse mouth.

INHALATION

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

EYES

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

SKIN

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P363 Wash contaminated clothing before reuse.

Precautionary statement – Storage

P405 Store locked up.

P406 Store in corrosive resistant/ container with a resistant inner liner.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

Precautionary statement – Disposal

P501 Dispose of contents/container to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Name	CAS	Proportion
Sodium carbonate, anhydrous	497- 19- 8	30- 60 %
Sodium Dichloroisocyanurate dihydrate	51580- 86- 0	10- <30 %
Sodium hydroxide	1310- 73- 2	10- <20 %
Disodium metasilicate	6834- 92- 0	10- <20 %
Ingredients determined not to be hazardous		Balance

4. FIRST-AID MEASURES

Inhalation

If inhaled, remove affected person from contaminated area. Apply artificial respiration if not breathing. Seek medical attention.

Ingestion

Do not induce vomiting. Wash out mouth thoroughly with water. Seek immediate medical attention.

Skin

Remove all contaminated clothing immediately. Wash gently and thoroughly with water and non-abrasive soap for 15 minutes. Ensure contaminated clothing is washed before re-use or discard. Seek immediate medical attention.

Eye contact

If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Seek immediate medical attention.

First Aid Facilities

Eyewash, safety shower and normal washroom facilities.

Advice to Doctor

Treat symptomatically.

Other Information

For advice in an emergency, contact a Poisons Information Centre or a doctor at once. (131 126)

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Carbon dioxide, dry chemical, foam, water mist or water spray.

Unsuitable Extinguishing Media

Do not use water jet.

Hazards from Combustion Products

The product is non-combustible, however, the packaging material may burn to emit noxious fumes. Contact with metals may liberate hydrogen gas which is extremely flammable, especially in the presence of water.

Specific Hazards Arising From The Chemical

This product is non combustible.

Hazchem Code

2X

Decomposition Temperature

Not available

Precautions in connection with Fire

Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. Fight fire from safe location.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures

Evacuate all unprotected personnel. Do not allow contact with skin and eyes. Do not breathe dust. It is essential to wear self-contained breathing apparatus (S.C.B.A) and full personal protective equipment and clothing to prevent exposure. Avoid exposure to spillage by sweeping up material avoiding dust generation or dampen spilled material with water to avoid airborne dust, then transfer material to suitable containers. Use absorbent paper dampened with water to pick up remaining material. Wash surfaces well with soap and water. Seal all wastes in labelled containers for subsequent recycling or disposal. Dispose of waste according to applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Corrosive solids. Attacks skin and eyes. Causes burns. Avoid breathing in dust. Wear suitable protective clothing, gloves and eye/face protection when mixing and using. Use in designated areas with adequate ventilation. Keep containers

tightly closed. Ensure a high level of personal hygiene is maintained when using this product, that is, always wash hands after handling, and before eating, drinking, smoking or using the toilet facilities.

Conditions for safe storage, including any incompatibilities

Corrosive. Store in a cool dry well-ventilated area. Store away from oxidising agents and bases/acids. Keep containers closed when not in use, securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Store in original packages as approved by manufacturer. Ensure that storage conditions comply with applicable local and national regulations.

Shelf life: 2 years from manufacturing date (when stored as directed).

For information on the design of the storeroom, reference should be made to Australian Standard AS 3780 The storage and handling of corrosive substances.

Corrosiveness

May be corrosive to metals.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit values

Substance	Regulations	Exposure Duration	Exposure Limit	Units	Notes
Sodium hydroxide	Safe Work Australia	PEL	2	mg/m ³	
Sodium Dichloroisocyanurate dihydrate	Safe Work Australia	TWA	1	ppm	Peak limitation (Chlorine)
Sodium Dichloroisocyanurate dihydrate	Safe Work Australia	TWA	3	mg/m ³	Peak limitation (Chlorine)

Biological Limit Values

No biological limits allocated.

Appropriate Engineering Controls

This substance is hazardous and should be used with a local exhaust ventilation system, drawing solid/dust away from workers' breathing zone. If the engineering controls are not sufficient to maintain concentrations of particulates below the exposure standards, suitable respiratory protection must be worn.

Respiratory Protection

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable dust/particulate filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements.

Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

Eye Protection

Safety glasses with full face shield should be used. Eye protection devices should conform to relevant regulations. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

Hand Protection

Wear gloves of impervious material, elbow-length laminate film, natural rubber, nitrile, neoprene, neoprene/natural rubber blend or PVC. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Occupational protective gloves should conform to relevant regulations.

Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

Body Protection

Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

Other Information

No exposure standards have been established for this material, however, the TWA exposure standards for dust not otherwise specified is 10 mg/m³. As with all chemicals, exposure should be kept to the lowest possible levels.

TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

Source: Safe Work Australia

9. PHYSICAL AND CHEMICAL PROPERTIES

Form

Powder

Appearance

White to off white powder

Colour

White to off white

Odour

Light chlorine odour

Decomposition Temperature

Not available

Melting Point

Not available

Boiling Point

Not available

Solubility in Water

Fully soluble

Specific Gravity

0.9-1 (approximate)

pH

>13 (1% solution)

Vapour Pressure

Not available

Vapour Density (Air=1)

Not available

Evaporation Rate

Not available

Odour Threshold

Not available

Viscosity

Refer to Section 9: Kinematic Viscosity and Dynamic Viscosity

Volatile Component

Not available

Partition Coefficient: n-octanol/water

Not available

Flash Point

Not applicable

Flammability

Non combustible material.

Auto-Ignition Temperature

Not available

Explosion Limit - Upper

Not applicable

Explosion Limit - Lower

Not applicable

Explosion Properties

Not available

Oxidising Properties

Not available

Kinematic Viscosity

Not available

Dynamic Viscosity

Not available

10. STABILITY AND REACTIVITY

Reactivity

Refer to Section 10: Possibility of hazardous reactions

Chemical Stability

Stable under normal conditions of storage and handling.

The shelf life is 2 years.

Conditions to Avoid

Extremes of temperature and direct sunlight.

Do not combine part drums of the same product, as this may be a source of contamination.

Incompatible materials

Acids, ammonium salts, aluminium, tin or zinc coated metals. May be corrosive to metals.

Hazardous Decomposition Products

Thermal decomposition may result in the release of toxic and/or irritating fumes including: chlorine gas and nitrogen trichloride. The packaging material may burn to emit noxious fumes.

Possibility of hazardous reactions

Reacts violently with acids, releasing toxic chlorine gas. Reacts exothermically on dilution with water. Reacts with ammonium salts and a toxic ammonia gas may be liberated. Reacts with certain soft metals, including aluminium and galvanised surfaces, releasing flammable hydrogen gas, especially if moist.

Hazardous Polymerization

Not available

11. TOXICOLOGICAL INFORMATION

Toxicology Information

Available toxicity data is given below.

Acute Toxicity - Oral

Sodium hydroxide

Oral Lowest Lethal Dose (rabbit): 500mg/kg

Disodium metasilicate

LD50 (rat): 1153mg/kg

LD50 (mice): 770mg/kg

LDLo (dog): 250mg/kg

Ingestion

Harmful if swallowed. Ingestion of this product will cause nausea, vomiting, abdominal pain and chemical burns to the mouth, throat and stomach.

Inhalation

May cause respiratory irritation. Inhalation of product dust can cause irritation of the nose, throat and respiratory system. Dust generated will cause irritation with possible burns to the mucous membrane and upper airways.

Symptoms may include coughing, lesions of the nasal septum, severe pain and may lead to permanent tissue scarring.

Chronic exposure to this material may aggravate existing respiratory disorders and lung disorders such as bronchitis, emphysema and asthma. Onset and progression are related to dust concentrations and duration of exposure.

Skin

Causes burns. Corrosive to the skin. Skin contact can cause redness, itching, irritation, severe pain and chemical burns with resultant tissue destruction.

Sodium hydroxide

Skin (rabbit): 500mg/24hr

Result: severe irritation

Disodium metasilicate

Skin (human): 250mg/24hr

Result: severe irritation

Eye

Causes eye damage. Eye contact will cause stinging, blurring, tearing, severe pain and possible burns, necrosis, permanent damage and blindness.

Sodium hydroxide

Eyes (rabbit): 1mg/30sec rinse

Result: severe irritation

Respiratory sensitisation

Not expected to be a respiratory sensitiser.

Skin Sensitisation

Not expected to be a skin sensitiser.

Germ cell mutagenicity

Not considered to be a mutagenic hazard.

Carcinogenicity

Not considered to be a carcinogenic hazard.

Reproductive Toxicity

Not considered to be toxic to reproduction.

STOT-single exposure

May cause respiratory irritation.

STOT-repeated exposure

Not expected to cause toxicity to a specific target organ.

Aspiration Hazard

Not expected to be an aspiration hazard.

Other Information

Sodium hydroxide

Intrapertioneal LD50 (mouse): 40mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic life with long lasting effects.

The product is highly alkaline. If large spills occurred a water pH rise could be responsible for an environmental effect on aquatic organisms. If not neutralised this product could potentially be toxic for aquatic organisms because of its alkalinity (pH > 9 can have an effect on fish, with possible fish death). pH > 8.5 could be destroying for algae.

Persistence and degradability

Surfactants are considered readily biodegradable (AS4351).

Mobility

Not available

Bioaccumulative Potential

Not available

Other Adverse Effects

Not available

Environmental Protection

Do not discharge this material into waterways, drains and sewers.

13. DISPOSAL CONSIDERATIONS

Disposal considerations

Dispose of waste according to applicable local and national regulations. Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes including emptied containers are controlled wastes and should be disposed of in accordance with all applicable local and national regulations.

14. TRANSPORT INFORMATION

Transport Information

This material is classified as Dangerous Goods Class 8 Corrosive Substances

Class 8: Corrosive substances Dangerous Goods are incompatible in a placard load with any of the following:

Class 1: Explosives

Division 4.3: Dangerous when wet substances

Division 5.1: Oxidising substances

Division 5.2: Organic peroxides

Class 6: Toxic or Infectious Substances, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids.

Class 7: Radioactive materials unless specifically exempted

And are incompatible with food and food packaging in any quantity.

Note 2: Strong acids must not be loaded in the same freight container or on the same vehicle with strong alkalis.

Packing Group I and II acids and alkalis should be considered as strong.

U.N. Number

1759

UN proper shipping name

CORROSIVE SOLID, N.O.S. - (Contains Sodium hydroxide & Disodium metasilicate)

Transport hazard class(es)

8

Packing Group

II

Hazchem Code

2X

Special Precautions for User

Not available

IERG Number

37

UN Number (Air Transport, ICAO)

1759

IATA/ICAO Proper Shipping Name

CORROSIVE SOLID, N.O.S. - (Contains Sodium hydroxide & Disodium metasilicate)

IATA/ICAO Hazard Class

8

IATA/ICAO Packing Group

II

IATA/ICAO Symbol

Corrosive

IMDG UN No

1759

IMDG Proper Shipping Name

CORROSIVE SOLID, N.O.S. - (Contains Sodium hydroxide & Disodium metasilicate)(Sodium Dichloroisocyanurate dihydrate) MARINE POLLUTANT

IMDG Hazard Class

8

IMDG Pack. Group

II

IMDG Marine pollutant

Yes

IMDG EMS

F-A,S-B

Transport in Bulk

Not available

15. REGULATORY INFORMATION

Regulatory information

Classified as Hazardous according to the Globally Harmonised System of classification and labelling of chemicals (GHS) including Work, Health and Safety regulations, Australia

Classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

Poisons Schedule

S6

16. OTHER INFORMATION

Date of preparation or last revision of SDS

SDS Created: July 2016

References

Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice .

Standard for the Uniform Scheduling of Medicines and Poisons.

Australian Code for the Transport of Dangerous Goods by Road & Rail.

Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.

Workplace exposure standards for airborne contaminants.

Adopted biological exposure determinants, American Conference of Industrial Hygienists (ACGIH)..

Globally Harmonised System of classification and labelling of chemicals.

Contact Person/Point

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END OF SDS

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