



Safety Data Sheet (SDS) RAPSL/01

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According to SANS 11014:2010 & 10234:2008
Revision Date: 2018/10/22

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Version: 1.4

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

Product identifier:

Identification as on the label/Trade name: **RAPPID®**

Additional information: Product code RAPSL/01.

Relevant identification uses of the substance and uses advised against:

Identified uses: Fertilizer.

Uses advised against: Use only as directed

Details of the supplier of the Safety Data Sheet:

NULANDIS, A Division of AECI Limited
14 Field Road, LILANTON

Emergency telephone numbers:

Griffon Poison information centre: 082 446 8946
Poisons Information Helpline: 0861 555 777
Nulandis: (011) 823 8000 (o/h) Spill Tech: 086 100 0366 (a/h)

SECTION 2. HAZARD IDENTIFICATION

Classification of the substances or mixture

The mixture is classified according to

SANS 10234:2008, Regulation EC 1272/2008 [EU-GHS/CLP]	
Hazard classes/Hazard categories	Hazard statement
Not required	Not required

For full text of H statements see section 16

The most important adverse effects

The most important adverse physiochemical effects: None.

The most important adverse human health effects: None.

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Label elements

Hazard pictograms:

Signal Word: None required.

Hazard Statements: None required.

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

Special labelling of certain mixtures: None.

Other hazards: None.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

Ingredients: Non- hazardous

Substance name (IUPAC/EC)	CAS –No.	Concentration % by weight	Classification EC1272/2008
	EC-No.		
Ammonium polyphosphate solution	68333-79-9	<100%	Not classified

There are no 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 available, are listed in Section 8.

SECTION 4. FIRST AID MEASURES

Description of first aid measures:

In case of inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

In case of skin contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

In case of eye contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.

In case of ingestion Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention.

Most important symptoms and effects, both acute and delayed:

Inhalation: May cause irritation under misty conditions.

Ingestions: Large doses of this product (ammonium salt) may induce diarrhoea and diuresis.

Skin contact: May cause skin irritation.

Eye contact: May cause eye irritation.

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Indication of any immediate medical attention and special treatment needed:

None.

SECTION 5. FIRE -FIGHTING MEASURE

Extinguisher media:

Suitable extinguisher media:

SMALL FIRE: Use dry chemical powder, CO₂, alcohol foam or water spray,

LARGE FIRE: Use alcohol foam, water spray or fog.

Unsuitable extinguishing media: None known.

Special hazards arising from the mixture:

When heated, it may release ammonia gas. Product is a fire retardant.

Advice for fire-fighters:

Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. Be sure to use an approved/certified respirator or equivalent.

SECTION 6. ACCIDENTAL RELEASE

Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel: Splash goggles, gloves.

For emergency responders: Splash goggles, gloves.

Environmental precautions:

Stop leak if without risk. Do not touch spilled material. Use water spray to reduce dust, if any. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal.

Methods for containment and cleaning up:

For small spills Contain spilled material if possible. Collect in suitable and properly labelled containers. Absorb with materials such as: sand, earth, vermiculite or diatomaceous earth.

For large spills 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 well labelled metal or plastic container for disposal according to local regulations.

Reference to other sections:

See section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See section 13 for information on disposal.

Additional information: Caution should be exercised in the area of spilled material since solution can cause slippery condition.



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SECTION 7. HANDLING AND STORAGE

Precautions for safe handling:

Avoid breathing mist, minimize contact with skin and eyes. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not get in eyes or on skin or clothing.

Protective measures: Observe directions on label and instructions for use.

Advice on general occupational hygiene: Do not eat drink or smoke when handling this product.

Conditions for safe storage, including incompatibilities:

Store product in a segregated and approved area. Avoid using containers, pipes and fittings made of zinc-clad, copper-bearing alloys or aluminium. Storage in open containers may result in formation of an ammonium polyphosphate solid on walls. Protect from physical damage. Aluminium tanks not recommended because of possible. Keep container tightly closed and sealed until ready for use.

Specific end uses:

Use as directed. Use original container, storage above ambient temperature reduces shelf life.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:

Occupational exposure limits (OEL): None.

Biological exposure indices (BEI): None.

Additional exposure limits under the conditions of use: None.

Exposure control:

Appropriate engineering controls: Avoid high dust concentration and provide ventilation where necessary.

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Use safety glasses. If there is a potential for exposure to particles/mist which could cause eye discomfort, wear chemical goggles.

Hand protection: Use chemical resistant gloves. Examples of preferred glove barrier materials include Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, Polyvinyl alcohol, Polyvinyl chloride.

Body protection: Not required under normal use, if skin irritation occurs wear long sleeves.

Respiratory protection: Respiratory protection is required when ventilation is inadequate, or discomfort is experienced; use an approved air-purifying respirator. Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines.



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Environmental exposure controls: Prevent product from entry into sewers and water courses.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance (form): Liquid.

Colour: Clear off-white.

Odour: Slight ammonia odour.

Odour threshold: No information available.

pH (at concentration): 6.0-7.0 (100%)

Freezing point/range (°C): - 17 °C

Boiling point/range (°C): No information available.

Flash point (°C): No information available.

Evaporation rate: No information available.

Flammability (solid, gas): No information available.

Ignition temperature (°C): No information available.

Upper/lower flammability/explosive limits: No information available.

Vapour pressure (20°C): No information available.

Vapour density: No information available.

Relative density: 1.34-1.43

Water solubility (g/l) at 20°C: Miscible.

n-Octanol/Water partition coefficient: No information available.

Auto-ignition temperature: No information available.

Decomposition temperature: No information available.

Viscosity, dynamic (mPa s): No information available.

Physical hazards:

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Explosive properties: Not explosive.

Oxidising properties: Not an oxidiser.

Other information:

Fat solubility (solvent-oil to be specified): No information available.

Bulk density: No information available.

Dissociation constant in water (p Ka): No information available.

Oxidation-reduction potential: No information available.

SECTION 10. STABILITY AND REACTIVITY

Reactivity:

The product is stable under normal conditions.

Chemical stability:

Stable under normal storage conditions at ambient temperature for 2 years.

Possibility of hazardous reactions:

None known.

Conditions to avoid:

High temperatures.

Incompatible materials:

Zinc clad, copper bearing alloys and aluminium. Water reactive materials.

Hazardous decomposition products:

Ammonia gas.

SECTION 11. TOXICOLOGICAL INFORMATION

Toxicokinetics, metabolism and distribution:

Non-human toxicological data: No Information available.

Method: No Information available.

Dosage: No Information available.

Routes of administration: No Information available.

Results: No Information available.

Absorption: No Information available.

Distribution: No Information available.

Metabolism: No Information available.



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Excretion: No Information available.

Information on toxicological effects:

Ammonium polyphosphate

Acute toxicity:

Acute oral LD₅₀ in rat >2000 mg/kg.

Dermal LD₅₀ in rat >5000 mg/kg

Chronic toxicity: No information available.

Skin corrosion/irritation: May irritate skin (rabbit).

Serious eye damage/irritation: May irritate eyes (rabbit).

Respiratory or skin sensitization: No information available.

Germ cell mutagenicity: No information available.

Reproductive toxicity: No information available.

STOT-single exposure: No information available.

Aspiration hazard: No information available.

Other information: No information available.

SECTION 12. ECOLOGICAL INFORMATION

Ammonium polyphosphate

Toxicity:

Fish: LC₅₀ (96 h) Rainbow trout >101 mg/ ℓ.

Persistence and degradability:

Will release phosphate. Phosphates will result in algae growth which may increase turbidity and deplete oxygen resulting in potential hazards to fish and other marine organism. Will release ammonium ions. Slightly toxic to non-toxic to fish and aquatic organisms.

Bioaccumulative potential:

No information available.

Mobility in soil

No information available.

Results of PBT& vPvB assessment:

No information available.

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Other adverse effects:

Drift or runoff may adversely affect non-target plants. Do not apply directly to water. May be harmful to fish, livestock, and wildlife. Dissolved mineral salts may cause irritation of the digestive tract in animals. Do not contaminate water when disposing of equipment wash water. Do not apply when weather conditions favour drift from target area.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

Treat as hazardous waste and dispose of in accordance with municipal, provincial and national regulations.

Product/ packaging disposal:

Treat as hazardous waste and dispose of in accordance with municipal, provincial and national regulations.

SECTION 14. TRANSPORT INFORMATION

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN-Number	Not required.	Not required.	Not required.
UN Proper shipping name:	Not required.	Not required.	Not required.
Transport hazard class:	Not required.	Not required.	Not required.
Packaging group:	Not required.	Not required.	Not required.
Marine pollutant:	No	No	No
Special precautions for user:	Not required.	Not required.	Not required.
Transport in bulk according to MARPOL 73/78 Annex II and the IBC code	Not required.	Not required.	Not required.

Inland waterways: Not required.

Emergency response information: No information.

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation for the mixture:

Relevant information regarding authorization: Occupational Health and Safety Act 1993 Regulation for Hazardous Chemical Substances.

ACGIH: American Conference of Governmental Industrial Hygienists (ACGIH)

Relevant information regarding restrictions:

EU regulations: Regulation EC 1272/2008 [EU-GHS/CLP]

Other National regulations: National Road Traffic Act, 1996 (ACT NO. 93 of 1996).

SANS 10228:2012- The identification and classification of dangerous goods for transport by road and rail modes.

National Environmental Management: Waste Act 59 of 2008.

Chemical Safety Assessment carried out? No

SECTION 16. OTHER INFORMATION

Indication of changes:

GHS aligned.

Relevant classification and H statements (number and full text):

None.



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Training instructions:

Use as indicated on the label, special training may be required for application.

Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

Notice to readers:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees.

This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.