

### **Neutrog Sudden Impact for Roses**

### **Neutrog Australia**

Chemwatch: **6095-53** Version No: **3.1.1.1** 

Safety Data Sheet according to WHS and ADG requirements

### Chemwatch Hazard Alert Code: 2

Issue Date: **01/11/2019**Print Date: **05/05/2020**S.GHS.AUS.EN

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

### **Product Identifier**

Product name	Neutrog Sudden Impact for Roses	
Synonyms	fertiliser	
Other means of identification	Not Available	

### Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses Fertiliser.

### Details of the supplier of the safety data sheet

Registered company name	Neutrog Australia	
Address	288 Mine Road Kanmantoo SA 5252 Australia	
Telephone	+61 8 8538 3500	
Fax	+61 8 8538 3522	
Website	Not Available	
Email	Not Available	

### Emergency telephone number

Association / Organisation	Neutrog Australia
Emergency telephone numbers	+61 8 8538 5077
Other emergency telephone numbers	0409728738, 131126 (AH)

### **SECTION 2 HAZARDS IDENTIFICATION**

### Classification of the substance or mixture

Poisons Schedule	Not Applicable	
Classification [1]	Acute Toxicity (Oral) Category 4, Skin Corrosion/Irritation Category 2, Eye Irritation Category 2A, Specific target organ toxicity - single exposure Category 3 (respiratory tract irritation), Chronic Aquatic Hazard Category 4	
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI	

### Label elements

Hazard pictogram(s)



SIGNAL WORD
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### Hazard statement(s)

H302	Harmful if swallowed.	
H315	Causes skin irritation.	
H319	Causes serious eye irritation.	
H335	May cause respiratory irritation.	
H413	May cause long lasting harmful effects to aquatic life.	

### Precautionary statement(s) Prevention

P271	Use only outdoors or in a well-ventilated area.	
P261	Avoid breathing dust/fumes.	
P270	Do not eat, drink or smoke when using this product.	
P273	Avoid release to the environment.	

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### Precautionary statement(s) Response

P321	Specific treatment (see advice on this label).	
P362	Take off contaminated clothing and wash before reuse.	
P305+P351+P338	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 advice/attention.	

### Precautionary statement(s) Storage

P405	Store locked up.	
P403+P233 Store in a well-ventilated place. Keep container tightly closed.		

### Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

#### **SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**

#### Substances

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See section below for composition of Mixtures

#### Mixtures

CAS No	%[weight]	Name
Not Available	40-50	chicken manure
7778-80-5	25-30	potassium sulfate
7783-20-2	15-20	ammonium sulfate
7783-28-0	10-15	diammonium phosphate
Not Available	2-5	rock phosphate
7720-78-7	1-5	ferrous sulfate anhydrous
7487-88-9	1-5	magnesium sulfate, anhydrous

### **SECTION 4 FIRST AID MEASURES**

### Description of first aid measures

Eye Contact	If this product comes in contact with the eyes:  Immediately hold eyelids apart and flush the eye continuously with running water.  Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.  Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.  Transport to hospital or doctor without delay.  Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin contact occurs:  Immediately remove all contaminated clothing, including footwear.  Flush skin and hair with running water (and soap if available).  Seek medical attention in event of irritation.
Inhalation	<ul> <li>If fumes or combustion products are inhaled remove from contaminated area.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>Transport to hospital, or doctor, without delay.</li> </ul>
	IF SWALLOWED, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE, WITHOUT DELAY.      For advice, contact a Poisons Information Centre or a doctor.      Urgent hospital treatment is likely to be needed.      In the mean time, qualified first-aid personnel should treat the patient following observation and employing supportive measures as indicated.

- In the mean time, qualified first-aid personnel should treat the patient following observation and employing supportive measures as indicated by the patient's condition.
- If the services of a medical officer or medical doctor are readily available, the patient should be placed in his/her care and a copy of the SDS should be provided. Further action will be the responsibility of the medical specialist.
- If medical attention is not available on the worksite or surroundings send the patient to a hospital together with a copy of the SDS.

## Where medical attention is not immediately available or where the patient is more than 15 minutes from a hospital or unless instructed otherwise:

• INDUCE vomiting with fingers down the back of the throat, ONLY IF CONSCIOUS. Lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.

NOTE: Wear a protective glove when inducing vomiting by mechanical means.

### Indication of any immediate medical attention and special treatment needed

for phosphate salts intoxication:

Ingestion

- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.
- Ingestion of large quantities of phosphate salts (over 1.0 grams for an adult) may cause an osmotic catharsis resulting in diarrhoea and probable abdominal cramps. Larger doses such as 4-8 grams will almost certainly cause these effects in everyone. In healthy individuals most of the ingested salt will be excreted in the faeces with the diarrhoea and, thus, not cause any systemic toxicity. Doses greater than 10 grams hypothetically may cause systemic toxicity.

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- ▶ Treatment should take into consideration both anionic and cation portion of the molecule.
- ▶ All phosphate salts, except calcium salts, have a hypothetical risk of hypocalcaemia, so calcium levels should be monitored.

Treat symptomatically.

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### **SECTION 5 FIREFIGHTING MEASURES**

#### **Extinguishing media**

- ▶ There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

### Special hazards arising from the substrate or mixture

Fire Incompatibility	Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result		
Advice for firefighters			
Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use fire fighting procedures suitable for surrounding area.</li> </ul>		
Fire/Explosion Hazard	<ul> <li>Non combustible.</li> <li>Not considered a significant fire risk, however containers may burn.</li> <li>Decomposition may produce toxic fumes of:</li> <li>carbon monoxide (CO)</li> <li>carbon dioxide (CO2)</li> <li>nitrogen oxides (NOx)</li> <li>ammonia</li> <li>phosphorus oxides (POx)</li> <li>sulfur oxides (SOx)</li> <li>other pyrolysis products typical of burning organic material.</li> <li>May emit poisonous fumes.</li> <li>May emit corrosive fumes.</li> </ul>		
HAZCHEM	Not Applicable		

### **SECTION 6 ACCIDENTAL RELEASE MEASURES**

### Personal precautions, protective equipment and emergency procedures

See section 8

### **Environmental precautions**

See section 12

### Methods and material for containment and cleaning up

Minor Spills	<ul> <li>Remove all ignition sources.</li> <li>Clean up all spills immediately.</li> <li>Avoid contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> </ul>
Major Spills	Moderate hazard.  • CAUTION: Advise personnel in area.  • Alert Emergency Services and tell them location and nature of hazard.  • Control personal contact by wearing protective clothing.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

### **SECTION 7 HANDLING AND STORAGE**

### Precautions for safe handling Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. • Organic powders when finely divided over a range of concentrations regardless of particulate size or shape and suspended in air or some Safe handling other oxidizing medium may form explosive dust-air mixtures and result in a fire or dust explosion (including secondary explosions) Minimise airborne dust and eliminate all ignition sources. Keep away from heat, hot surfaces, sparks, and flame. Establish good housekeeping practices. Remove dust accumulations on a regular basis by vacuuming or gentle sweeping to avoid creating dust clouds. Store in original containers. Keep containers securely sealed. Other information ▶ Store in a cool, dry area protected from environmental extremes. Store away from incompatible materials and foodstuff containers. ► Protect from light.

### Conditions for safe storage, including any incompatibilities

Suitable container

Polyethylene or polypropylene container.
 Check all containers are clearly labelled and free from leaks.

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Diammonium phosphate (syn: ammonium phosphate, dibasic)

- ▶ slowly forms anhydrous ammonia on contact with air
- ▶ forms anhydrous ammonia gas on contact with caustics
- reacts violently with strong oxidisers, magnesium, potassium chlorate, strong bases
- reacts with antimony(V) pentafluoride, lead diacetate, magnesium, silver nitrate, zinc acetate

#### Ammonium sulfate

- ▶ is strongly acid in aqueous solution
- reacts with caustics forming ammonia
- reacts violently with potassium chlorate
- when hot reacts with nitrates, nitrites, chlorates
- attacks metals
  - is incompatible with sulfuric acid, aliphatic amines, alkanolamines, amides, organic anhydrides, isocyanates, vinyl acetate, alkylene oxides, epichlorohydrin, potassium plus ammonium nitrate, sodium-potassium powder plus ammonium nitrate
  - mixtures with sodium hypochlorite form unstable, explosive nitrogen trichloride
  - ▶ Phosphates are incompatible with oxidising and reducing agents.
  - Phosphates are susceptible to formation of highly toxic and flammable phosphine gas in the presence of strong reducing agents such as hydrides.
  - ▶ Partial oxidation of phosphates by oxidizing agents may result in the release of toxic phosphorus oxides.
  - Avoid strong bases.

### **SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

### Control parameters

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#### OCCUPATIONAL EXPOSURE LIMITS (OEL)

Storage incompatibility

#### INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	ferrous sulfate anhydrous	Iron salts, soluble (as Fe)	1 mg/m3	Not Available	Not Available	Not Available

### **EMERGENCY LIMITS**

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
potassium sulfate	Potassium sulfate (2:1); (Dipotassium sulfate)	20 mg/m3	220 mg/m3	1,300 mg/m3
ammonium sulfate	Ammonium sulfate	13 mg/m3	140 mg/m3	840 mg/m3
diammonium phosphate	Ammonium phosphate dibasic; (Diammonium phosphate)	20 mg/m3	210 mg/m3	1,300 mg/m3
ferrous sulfate anhydrous	Ferrous sulfate	8.2 mg/m3	41 mg/m3	250 mg/m3
magnesium sulfate, anhydrous	Magnesium sulfate (1:1)	20 mg/m3	220 mg/m3	1,300 mg/m3

Ingredient	Original IDLH	Revised IDLH
potassium sulfate	Not Available	Not Available
ammonium sulfate	Not Available	Not Available
diammonium phosphate	Not Available	Not Available
ferrous sulfate anhydrous	Not Available	Not Available
magnesium sulfate, anhydrous	Not Available	Not Available

### OCCUPATIONAL EXPOSURE BANDING

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit	
ammonium sulfate	E	≤ 0.01 mg/m³	
diammonium phosphate	E	≤ 0.01 mg/m³	
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.		

### Exposure controls

# Appropriate engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.

### Personal protection











### r craonar protection

- Eye and face protection
- Safety glasses with side shields.
  - Chemical goggles.
  - Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

### Skin protection

### See Hand protection belo

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

### Hands/feet protection

The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.

Personal hygiene is a key element of effective hand care.

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	Experience indicates that the following polymers are suitable as glove materials for protection against undissolved, dry solids, where abrasive particles are not present.  • polychloroprene.  • nitrile rubber.  • butyl rubber.
Body protection	See Other protection below
Other protection	Overalls.     P.V.C. apron.     Barrier cream.

### Respiratory protection

Particulate. (AS/NZS 1716 & 1715, EN 143:2000 & 149:001, ANSI Z88 or national equivalent)

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	P1 Air-line*	-	PAPR-P1
up to 50 x ES	Air-line**	P2	PAPR-P2
up to 100 x ES	-	P3	-
		Air-line*	-
100+ x ES	-	Air-line**	PAPR-P3

<sup>\* -</sup> Negative pressure demand \*\* - Continuous flow

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

- ▶ Respirators may be necessary when engineering and administrative controls do not adequately prevent exposures.
- The decision to use respiratory protection should be based on professional judgment that takes into account toxicity information, exposure measurement data, and frequency and likelihood of the worker's exposure ensure users are not subject to high thermal loads which may result in heat stress or distress due to personal protective equipment (powered, positive flow, full face apparatus may be an option).
- Published occupational exposure limits, where they exist, will assist in determining the adequacy of the selected respiratory protection. These may be government mandated or vendor recommended.
- Certified respirators will be useful for protecting workers from inhalation of particulates when properly selected and fit tested as part of a complete respiratory protection program.
- ▶ Use approved positive flow mask if significant quantities of dust becomes airborne.
- ► Try to avoid creating dust conditions.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Appearance	Brown pellets (approximately 6mm x 10mm); partially mixes with water.		
Physical state	Divided Solid	Relative density (Water = 1)	~0.7
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable
pH (as supplied)	Not Applicable	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Applicable
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Not Applicable	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Applicable
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Applicable
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Partly miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Applicable	VOC g/L	Not Available

### **SECTION 10 STABILITY AND REACTIVITY**

Reactivity	See section 7
Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7

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Hazardous decomposition products

See section 5

### **SECTION 11 TOXICOLOGICAL INFORMATION**

Information on to	xicological	effects
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Information on toxicological ef	ffects		
Inhaled	The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. Persons with impaired respiratory function, airway diseases and conditions such as emphysema or chronic bronchitis, may incur further disability if excessive concentrations of particulate are inhaled.  If prior damage to the circulatory or nervous systems has occurred or if kidney damage has been sustained, proper screenings should be conducted on individuals who may be exposed to further risk if handling and use of the material result in excessive exposures.		
Ingestion	Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual.  Sulfates are not well absorbed orally, but can cause diarrhoea.  As absorption of phosphates from the bowel is poor, poisoning this way is less likely. Effects can include vomiting, tiredness, fever, diarrhoea, low blood pressure, slow pulse, cyanosis, spasms of the wrist, coma and severe body spasms.  Considered an unlikely route of entry in commercial/industrial environments Ingestion may result in nausea, abdominal irritation, pain and diarrhoea		
Skin Contact	This material can cause inflammation of the skin on contact in some persons.  The material may accentuate any pre-existing dermatitis condition  Open cuts, abraded or irritated skin should not be exposed to this material  Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.		
Eye	This material can cause eye irritation and damage in some persons.		
Chronic	Long-term exposure to respiratory irritants may result in airways disease, involving difficulty breathing and related whole-body problems. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. There is some evidence that inhaling this product is more likely to cause a sensitisation reaction in some persons compared to the general population.  Long term exposure to high dust concentrations may cause changes in lung function i.e. pneumoconiosis, caused by particles less than 0.5 micron penetrating and remaining in the lung.  Sodium phosphate dibasic can cause stones in the kidney, loss of mineral from the bones and loss of thyroid gland function.		
Neutrog Sudden Impact for Roses	TOXICITY  Not Available	IRRITATION  Not Available	
potassium sulfate	TOXICITY  dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup> Oral (rat) LD50: >2000 mg/kg <sup>[1]</sup>	IRRITATION  Not Available	

Neutrog Sudden Impact for Roses	TOXICITY	IRRITATION	
	Not Available	Not Available	
	TOXICITY	IRRITATION	
potassium sulfate	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Not Available	
	Oral (rat) LD50: >2000 mg/kg <sup>[1]</sup>		
	TOXICITY	IRRITATION	
ammonium sulfate	Oral (rat) LD50: >2000 mg/kg <sup>[2]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>	
		Skin: no adverse effect observed (not irritating) <sup>[1]</sup>	
	TOXICITY	IRRITATION	
diammonium phosphate	dermal (rat) LD50: >5000 mg/kg <sup>[1]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>	
	Oral (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Skin: no adverse effect observed (not irritating) <sup>[1]</sup>	
	TOXICITY	IRRITATION	
ferrous sulfate anhydrous	dermal (rat) LD50: >881 mg/kg <sup>[1]</sup>	Not Available	
	Oral (rat) LD50: 13 mg/kg <sup>[1]</sup>		
	TOXICITY	IRRITATION	
magnesium sulfate, anhydrous	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Not Available	
annydrous	Oral (rat) LD50: >2000 mg/kg <sup>[1]</sup>		
Legend:	1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise		

specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

POTASSIUM SULFATE	
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For sodium sulfate:

The acute toxicity of sodium sulfate has not been established, but existing data indicate very low acute toxicity. Very high doses cause severe diarrhea. Sodium sulfate is not irritating to the skin, and only slightly irritating to the eyes. It is highly unlikely to cause sensitizing effects. There is no data regarding genetic toxicity except for a single negative test.

### AMMONIUM SULFATE

Acute toxicity: Ammonium sulfate has relatively low acute toxicity. In healthy humans, inhaling high concentrations caused mild reduction in lung function. Animal testing has not shown ammonium sulfate to cause irritation to the skin and eyes. There is no available data on sensitization. 

### DIAMMONIUM PHOSPHATE MAGNESIUM SULFATE,

No significant acute toxicological data identified in literature search.

ANHYDROUS

Intravenous (woman) LDLo: 80 mg/kg/2m-I

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AMMONIUM SULFATE & DIAMMONIUM PHOSPHATE

Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia.

Acute Toxicity	<b>~</b>	Carcinogenicity	X
Skin Irritation/Corrosion	✓	Reproductivity	×
Serious Eye Damage/Irritation	✓	STOT - Single Exposure	✓
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×

Legend:

X − Data either not available or does not fill the criteria for classification
 Y − Data available to make classification

### **SECTION 12 ECOLOGICAL INFORMATION**

### Toxicity

Neutrog Sudden Impact for Roses	ENDPOINT	TEST DURATION (HR)	SPECIES		VALUE	SOURC
	Not Available	Not Available	Not Available		Not Available	Not Available
	ENDPOINT	TEST DURATION (HR)	SPECIES		VALUE	SOURC
	LC50	96	Fish		3-550mg/L	2
potassium sulfate	EC50	48	Crustacea		=890mg/L	1
	EC50	72	Algae or other aquatic plants		=2900mg/L	1
	ENDPOINT	TEST DURATION (HR)	SPECIES		VALUE	SOURC
	LC50	96	Fish		0.068mg/L	4
ammonium sulfate	EC50	48	Crustacea		73.05mg/L	2
	EC50	96	Algae or other aquatic plants		254000mg/L	3
	NOEC	216	Fish		0.064mg/L	4
diammonium phosphate	ENDPOINT	TEST DURATION (HR)	SPECIES		VALUE	SOURC
	LC50	96	Fish		0.001-0.32mg/L	2
	EC50	48	Crustacea		>100mg/L	2
	EC50	72	Algae or other aquatic plants		>100mg/L	2
	NOEC	72	Algae or other aquatic plants	i	100mg/L	2
	ENDPOINT	TEST DURATION (HR)	SPECIES	VAL	_UE	SOURC
	LC50	96	Fish	0.41	1mg/L	4
ferrous sulfate anhydrous	EC50	48	Crustacea	7.2r	mg/L	4
	EC50	96	Algae or other aquatic plants	254	000mg/L	3
	NOEC	48	Algae or other aquatic plants	0.00	001260853mg/L	4
	ENDPOINT	TEST DURATION (HR)	SPECIES		VALUE	SOURC
	LC50	96	Fish		15-mg/L	2
magnesium sulfate, anhydrous	EC50	48	Crustacea		343.56mg/L	4
annyurous	EC50	72	Algae or other aquatic plants		2-700mg/L	2
	NOEC	504	Crustacea		360mg/L	4
Legend:	Extracted from	1 IUCLID Toxicity Data 2 Furone FC	CHA Registered Substances - Ecotoxicological I	nformation - 4	Aquatic Toxicity 3	FPIWIN S

May cause long-term adverse effects in the aquatic environment.

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

DO NOT discharge into sewer or waterways.

### Persistence and degradability

,					
Ingredient	Persistence: Water/Soil	Persistence: Air			
ammonium sulfate	HIGH	HIGH			
ferrous sulfate anhydrous	HIGH	HIGH			
magnesium sulfate, anhydrous	HIGH	HIGH			

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#### **Bioaccumulative potential**

Ingredient	Bioaccumulation
ammonium sulfate	LOW (LogKOW = -2.2002)
ferrous sulfate anhydrous	LOW (BCF = 52)
magnesium sulfate, anhydrous	LOW (LogKOW = -2.2002)

### Mobility in soil

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Ingredient	Mobility
ammonium sulfate	LOW (KOC = 6.124)
ferrous sulfate anhydrous	LOW (KOC = 6.124)
magnesium sulfate, anhydrous	LOW (KOC = 6.124)

### **SECTION 13 DISPOSAL CONSIDERATIONS**

#### Waste treatment methods

- ► Containers may still present a chemical hazard/ danger when empty.
- ▶ Return to supplier for reuse/ recycling if possible.

#### Otherwise:

- If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.
- ▶ Where possible retain label warnings and SDS and observe all notices pertaining to the product.

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

A Hierarchy of Controls seems to be common - the user should investigate:

- ▶ Reduction
- Reuse
- Product / Packaging disposal
- ▶ Recycling
- ► Disposal (if all else fails)

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use.

- ► DO NOT allow wash water from cleaning or process equipment to enter drains
- It may be necessary to collect all wash water for treatment before disposal.
- ▶ In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- Where in doubt contact the responsible authority.
- ► Recycle wherever possible.
- Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.
- Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or Incineration in a licensed apparatus (after admixture with suitable combustible material)
- Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

### **SECTION 14 TRANSPORT INFORMATION**

### Labels Required

<u> </u>	
Marine Pollutant	NO
HAZCHEM	Not Applicable

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

### **SECTION 15 REGULATORY INFORMATION**

Safety, health and environmental regulations / legislation specific for the substance or mixture

POTASSIUM SULFATE IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

AMMONIUM SULFATE IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

DIAMMONIUM PHOSPHATE IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

FERROUS SULFATE ANHYDROUS IS FOUND ON THE FOLLOWING REGULATORY LISTS

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### **Neutrog Sudden Impact for Roses**

Issue Date: 01/11/2019 Print Date: 05/05/2020

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Inventory of Chemical Substances (AICS)

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) -Schedule 2

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) -

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) -Schedule 5

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) -Schedule 6

#### MAGNESIUM SULFATE, ANHYDROUS IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) -

### **National Inventory Status**

National Inventory	Status
Australia - AICS	Yes
Canada - DSL	Yes
Canada - NDSL	No (potassium sulfate; ammonium sulfate; magnesium sulfate, anhydrous)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	Yes
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	Yes
Vietnam - NCI	Yes
Russia - ARIPS	Yes
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

#### **SECTION 16 OTHER INFORMATION**

Revision Date	01/11/2019
Initial Date	03/09/2010

### **SDS Version Summary**

Version	Issue Date	Sections Updated
3.1.1.1	01/11/2019	One-off system update. NOTE: This may or may not change the GHS classification

### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

### **Definitions and abbreviations**

PC-TWA: Permissible Concentration-Time Weighted Average

PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limita

IDLH: Immediately Dangerous to Life or Health Concentrations

OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value LOD: Limit Of Detection

OTV: Odour Threshold Value

BCF: BioConcentration Factors

BEI: Biological Exposure Index

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TEL (+61 3) 9572 4700.