

Conforms: GHS (rev 4) (2011)

The Hazardous Substances and New Organisms (HSNO) Act 1996 and Amendments - New Zealand

**Date of issue/ Date of revision** : 15.11.2017

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**Version** : 3.0



# SAFETY DATA SHEET

**KRISTALON RED**

## Section 1. Identification

**Product name** : KRISTALON RED

**Product type** : Solid

**Product code** : PK481K

### Uses

**Area of application** : Professional applications

**Material uses** : Fertilizers.

### Supplier

**Supplier's details** : Yara Fertilizers (New Zealand) Limited

### Address

**Street** : 43 Plassey Street

**Postal code** : 4130

**City** : Havelock North

**Country** : New Zealand

### P.O. Box Address

**P.O. Box** : 8746

**Postal code** : 4157

**City** : Havelock North

**Country** : New Zealand

**Telephone number** : +64 6 877 6600

**Fax no.** : +64 6 877 6610

**e-mail address of person** : info.yara@xtra.co.nz

**responsible for this SDS**

**Emergency telephone number** : +64 9929 1483 (7/24)

**(with hours of operation)**

### National advisory body/Poison Center

**Name** : New Zealand National Poisons Centre

**Telephone number** : 0800 POISON = 0800 764 766 (NZ only) / +64 3 479 7248  
(outside NZ)

**Hours of operation** : 24h

## Section 2. Hazards identification

**Classification and labelling have been performed following the guidelines and recommendation of GHS and the intended use.**

**HSNO Classification** : 5.1.1 - OXIDIZING SUBSTANCES - Category C

6.1 - ACUTE TOXICITY (oral) - Category D

6.3 - SKIN IRRITATION - Category B

6.4 - EYE IRRITATION - Category A (Irritant)

6.8 - REPRODUCTIVE AND DEVELOPMENTAL TOXICITY  
(Fertility) - Category A  
6.8 - REPRODUCTIVE AND DEVELOPMENTAL TOXICITY  
(Unborn child) - Category A  
9.1 - AQUATIC ECOTOXICITY - Category D  
9.3 - TERRESTRIAL VERTEBRATE ECOTOXICITY -  
Category C

### GHS label elements

#### Hazard pictograms



#### Signal word

: Danger

#### Hazard statements

: H272 May intensify fire; oxidizer.  
H302 Harmful if swallowed.  
H316 Causes mild skin irritation.  
H319 Causes serious eye irritation.  
H360 May damage fertility or the unborn child.  
H433 Harmful to terrestrial vertebrates.  
H413 May cause long lasting harmful effects to aquatic life.

### Precautionary statements

#### Prevention

: P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P220 Keep away from clothing and other combustible materials.  
P280-d Wear protective gloves/clothing and eye/face protection.  
P202 Do not handle until all safety precautions have been read and understood.

#### Response

: P308 IF exposed or concerned:  
P313-a Get medical attention.  
P370 In case of fire:  
P378-b Use flooding quantities of water to extinguish.

#### Other hazards which do not result in classification

: Product forms slippery surface when combined with water.

## **Section 3. Composition/information on ingredients**

#### Substance/mixture

: Mixture

Ingredient name	CAS number	% (w/w)
Potassium nitrate	7757-79-1	>= 70 - < 80
ammonium dihydrogenorthophosphate	7722-76-1	>= 15 - < 20
potassium dihydrogenorthophosphate	7778-77-0	>= 3 - < 5
magnesium sulphate	7487-88-9	>= 3 - < 5
boric acid	10043-35-3	>= 0.1 - < 0.2

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**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 available, are listed in Section 8.**

**Remark** : This product contains Boron (see section 7 and 11).

## Section 4. First aid measures

### Description of necessary first aid measures

- Eye contact** : Rinse with plenty of running water. Check for and remove any contact lenses. Get medical attention.
- Inhalation** : If inhaled, remove to fresh air. In case of inhalation of decomposition products in a fire, symptoms may be delayed. Get medical attention. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin contact** : Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash with soap and water.
- Ingestion** : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Get medical attention. Get medical attention if you feel unwell. Get medical attention if adverse health effects persist or are severe.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
- Skin contact** : Causes mild skin irritation.
- Ingestion** : Harmful if swallowed.

#### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness

- Inhalation** : Adverse symptoms may include the following:  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:  
stomach pains  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations

#### **Indication of immediate medical attention and special treatment needed, if necessary**

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : Not available.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (section 11)

## **Section 5. Firefighting measures**

### **Extinguishing media**

- Suitable extinguishing media** : Use flooding quantities of water for extinction.
- Unsuitable extinguishing media** : Do NOT use chemical extinguisher or foam or attempt to smother the fire with steam or sand.
- Specific hazards arising from the chemical** : Oxidizing material. May intensify fire. This material is harmful to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
nitrogen oxides  
sulfur oxides  
phosphorus oxides

	metal oxide/oxides Avoid breathing dusts, vapors or fumes from burning materials. In case of inhalation of decomposition products in a fire, symptoms may be delayed.
<b>Hazchem or Emergency Action Code</b>	: Not available.
<b>Special protective actions for fire-fighters</b>	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
<b>Special protective equipment for fire-fighters</b>	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
<b>Remark</b>	: None.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**Personal precautions, protective equipment and emergency procedures** : 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 flames, smoking or flames in hazard area. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).  
If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials.

**- 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). Water polluting material. May be harmful to the environment if released in large quantities.

### Methods and material for containment and cleaning up

- Small spill** : Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container.
- Large spill** : Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements

or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container.

## Section 7. Handling and storage

### Precautions for safe handling

**Precautions for safe handling** : Put on appropriate personal protective equipment (see Section 8).  
Do not handle until all safety precautions have been read and understood. As a precaution, keep exposure as low as possible for pregnant women, children and workers in reproductive age. Avoid dust generation. Do not breathe dust. Do not get in eyes or on skin or clothing. Do not ingest. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. 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. See also Section 8 for additional information on hygiene measures. Avoid release to the environment. Keep away from combustible materials.

**Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. 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. Separate from reducing agents and combustible materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Keep away from: organic materials, oil and grease.

**Specific recommendations to end users** : Do not generate and inhale liquid fertilizer aerosols.  
  
In addition to overalls, gloves and eye protection, use of efficient respiratory protection (P2/P3 respirators with a tight face seal) during discharge of fertilizer bags and maintenance of equipment is recommended to minimize inhalation exposure and to ensure safe-use during this activity (see

section 8).

Risk assessments show safe use during normal spreading of fertilizers containing below 5% of boron by tractor (liquid or granular) and backpack (liquid).

## Section 8. Exposure controls/personal protection

### Control parameters

**Occupational exposure limits** : None.

**Appropriate engineering controls** : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

**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. Wash contaminated clothing before reusing. A washing facility or water for eye and skin cleaning purposes should be present.

**Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. Recommended: Tightly-fitting goggles

### Skin protection

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** : Use respiratory protection with more than 94% efficiency (P2, P3 or N95) and a tight face seal, when risk of exposure to dust.

**Personal protective equipment (Pictograms)** :



## Section 9. Physical and chemical properties

### Appearance

Physical state	: Solid
Color	: Not determined.
Odor	: Not determined.
Odor threshold	: Not determined.
pH	: Not determined.
Melting/freezing point	: Not determined.
Boiling/condensation point	: Not determined.
Sublimation temperature	: Not determined.
Flash point	: Not determined.
Fire point	: Not determined.
Evaporation rate	: Not determined.
Flammability (solid, gas)	: Non-flammable.
Lower and upper explosive (flammable) limits	: <b>Lower:</b> Not determined. <b>Upper:</b> Not determined.
Vapor pressure	: Not determined.
Relative density	: Not determined.
Solubility	: Not determined.
Partition coefficient: n-octanol/water	: Not determined.
Auto-ignition temperature	: Not determined.
Decomposition temperature	: Not determined.
Viscosity	: <b>Dynamic:</b> Not determined. <b>Kinematic:</b> Not determined.
Explosive properties	: None.
Oxidizing properties	: Oxidizer

## Section 10. Stability and reactivity

Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Hazardous reactions or instability may occur under certain conditions of storage or use. Conditions may include the following: contact with combustible materials Reactions may include the following: risk of causing or intensifying fire
Conditions to avoid	: Avoid contamination by any source including metals, dust and organic materials.
Incompatible materials	: Reactive or incompatible with the following materials: alkalis combustible materials reducing materials organic materials acids



**Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product / ingredient name	Result	Species	Dose	Exposure	References
Potassium nitrate					
	LD50 Oral	Rat	> 2,000 mg/kg	Not applicable.	IUCLID 5
	LD50 Dermal	Rat	> 5,000 mg/kg	Not applicable.	IUCLID 5
ammonium dihydrogenorthophosphate					
	LD50 Oral	Rat	> 2,000 mg/kg OECD 425	Not applicable.	IUCLID 5
	LC50 Inhalation	Rat	> 5 mg/l OECD 403	4 h	IUCLID 5
	LD50 Dermal	Rat	> 5,000 mg/kg OECD 402	Not applicable.	IUCLID 5
potassium dihydrogenorthophosphate					
	LD50 Oral	Rat	> 2,000 mg/kg OECD 420	Not applicable.	IUCLID5
	LD50 Dermal	Rat	> 2,000 mg/kg OECD 402	Not applicable.	IUCLID5
magnesium sulphate					
	LD50 Oral	Rat	> 2,000 mg/kg OECD 425	Not applicable.	IUCLID 5
	LD50 Dermal	Rat	> 2,000 mg/kg OECD 402	Not applicable.	IUCLID 5
boric acid					
	LD50 Oral	Rat	3,450 mg/kg	Not applicable.	IUCLID 5
	LD50 Dermal	Rabbit	> 2,000 mg/kg	Not applicable.	IUCLID 5

**Conclusion/Summary** : Harmful if swallowed.

#### Irritation/Corrosion

Product / ingredient name	Result	Species	Score	Exposure	Observation	References
Potassium nitrate	Skin - Non-irritating. OECD 404	Rabbit	0		72 h	IUCLID 5

**Conclusion/Summary**

- Skin** : Causes mild skin irritation.
- Eyes** : Causes serious eye irritation.
- Respiratory** : No known significant effects or critical hazards.

**Sensitization****Conclusion/Summary**

- Skin** : No known significant effects or critical hazards.
- Respiratory** : No known significant effects or critical hazards.

**Mutagenicity**

- Conclusion/Summary** : No known significant effects or critical hazards.

**Carcinogenicity**

Product / ingredient name	Result	Species	Dose	Exposure	References
magnesium sulphate	Negative - Oral - NOAEL	Rat	284 mg/kg	365 days	IUCLID 5

- Conclusion/Summary** : No known significant effects or critical hazards.

**Reproductive toxicity**

Product / ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure	References
Potassium nitrate	Negative	Negative	Negative	Rat	Oral: > 1500 mg/kg bw/day OECD 422	28 days	IUCLID 5
ammonium dihydrogenorth ophosphate	Not applicable.	Negative	Negative	Rat	Oral: 1500 mg/kg bw/day	Not applicable.	IUCLID 5
potassium dihydrogenorth ophosphate	Not applicable.	Not applicable.	Not applicable.	Rat	Oral: 1000 mg/kg bw/day OECD 422	Not applicable.	IUCLID 5
magnesium sulphate	Not applicable.	Negative	Negative	Rat	Oral: > 1500 mg/kg	28 days	IUCLID 5

boric acid	Not applicable.	Positive	Not applicable.	Rat	bw/day Oral	3 weeks Repeated dose	IUCLID 5
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**Conclusion/Summary** : May damage fertility. Contains boron which may harm fertility, based on animal data. May damage the unborn child. Contains boron which may harm the unborn child, based on animal data.

**Specific target organ toxicity (single exposure)**

No known significant effects or critical hazards.

**Specific target organ toxicity (repeated exposure)**

**Aspiration hazard**

No known significant effects or critical hazards.

**Information on likely routes of exposure** : Not available.

**Potential acute health effects**

- Eye contact** : Causes serious eye irritation.
- Inhalation** : Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
- Skin contact** : Causes mild skin irritation.
- Ingestion** : Harmful if swallowed.

**Symptoms related to the physical, chemical and toxicological characteristics**

- Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- Inhalation** : Adverse symptoms may include the following:  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:  
stomach pains  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations

**Delayed and immediate effects as well as chronic effects from short and long-term exposure****Short term exposure**

- Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

**Long term exposure**

- Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

**Potential chronic health effects**

Product / ingredient name	Result	Species	Dose	Exposure	References
Potassium nitrate	NOAEL Oral	Rat	> 1,500 mg/kg	28days	IUCLID 5
ammonium dihydrogenorthophosphate	NOAEL Oral	Rat	250 mg/kg OECD 422	42days	IUCLID 5
magnesium sulphate	NOAEL Oral	Rat	256 mg/kg	365days	

- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Fertility effects** : May damage fertility. Contains boron which may harm fertility, based on animal data.
- Developmental effects** : May damage the unborn child. Contains boron which may harm the unborn child, based on animal data.
- Effects on or via lactation** : No known significant effects or critical hazards.
- Other effects** : No known significant effects or critical hazards.

**Over-exposure signs/symptoms**

- Eye contact** : Adverse symptoms may include the following:  
 pain or irritation  
 watering  
 redness
- Inhalation** : Adverse symptoms may include the following:  
 reduced fetal weight  
 increase in fetal deaths  
 skeletal malformations
- Skin contact** : Adverse symptoms may include the following:  
 irritation  
 redness  
 reduced fetal weight

increase in fetal deaths  
skeletal malformations

**Ingestion** : Adverse symptoms may include the following:  
stomach pains  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations

### Numerical measures of toxicity

#### Acute toxicity estimates

<b>Route</b>	<b>ATE value</b>
Oral	599.6 mg/kg
<b>Route</b>	<b>ATE value</b>
Dermal	35,519.9 mg/kg

## Section 12. Ecological information

### Toxicity

Product / ingredient name	Result	Species	Exposure	References
Potassium nitrate				
	Acute LC50 1,378 mg/l Fresh water OECD 203	Fish	96 h	IUCLID 5
	Acute EC50 490 mg/l Fresh water	Daphnia	48 h	IUCLID 5
	Acute EC50 > 1,700 mg/l Fresh water	Algae	240 h	IUCLID 5
ammonium dihydrogenorthophosphate				
	Acute LC50 85.9 mg/l Fresh water OECD 203	Fish	96 h	IUCLID 5
	Acute LC50 1,790 mg/l Fresh water	Daphnia magna	72 h	IUCLID 5
	Acute LC50 > 100 mg/l Fresh water OECD 201	Algae	72 h	IUCLID 5
	Chronic No-observable-effect-concentration 100 mg/l Fresh water OECD 201	Algae	72 h	IUCLID 5
potassium dihydrogenorthophosphate				
	Acute LC50 > 100 mg/l Fresh water OECD 203	Fish.	96 h	IUCLID5

	Acute EC50 > 100 mg/l Fresh water	Daphnia	48 h	IUCLID5
	Acute EC50 > 100 mg/l Fresh water OECD 201	Algae	72 h	IUCLID5
	Chronic No-observable-effect-concentration > 100 mg/l Fresh water OECD 201	Algae	72 h	IUCLID5
magnesium sulphate				
	Acute LC50 680 mg/l Fresh water	Fish	96 h	IUCLID 5
	Acute LC50 720 mg/l Fresh water	Daphnia magna	48 h	IUCLID 5
	Acute EC50 2,700 mg/l Fresh water	Algae	18 d	IUCLID 5
	Chronic No-observable-effect-concentration > 100 mg/l Fresh water	Algae	18 d	IUCLID 5
	Chronic No-observable-effect-concentration 100 mg/l	Aquatic Compartment (including sediment):	Not applicable.	IUCLID 5
boric acid				
	Acute LC50 > 100 mg/l Fresh water	Fish	4 d	IUCLID
	Acute EC50 > 100 mg/l Fresh water	Daphnia magna	2 d	IUCLID

**Conclusion/Summary** : May cause long lasting harmful effects to aquatic life.  
Harmful to terrestrial vertebrates

**Persistence/degradability**

**Conclusion/Summary** : No known significant effects or critical hazards.

**Bioaccumulative potential**

Product / ingredient name	LogPow	BCF	Potential
boric acid	0.175-1.09	Not applicable.	low

**Conclusion/Summary** : No known significant effects or critical hazards.


**Mobility in soil**


- Soil/water partition coefficient (KOC)** : Not available.
- Mobility** : Not available.
- Other adverse effects** : No known significant effects or critical hazards.


**Section 13. Disposal considerations****Product**

- Methods of disposal** : The generation of waste should be avoided or minimized wherever possible. 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. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. 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 emptied 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. Empty the bag by shaking to remove as much as possible of its contents. Empty bags may be disposed of as non-hazardous material or returned for recycling.

**Section 14. Transport information**

Regulation: UN Class	
14.1 UN number	1479
14.2 UN proper shipping name	OXIDIZING SOLID, N.O.S. (Potassium nitrate, )
14.3 Transport hazard class(es)	5.1 
14.4 Packing group	III
14.5 Environmental hazards	No.
<b>Additional information</b> <b><u>Environmental hazards</u></b>	: No.

Regulation: IMDG	
14.1 UN number	1479
14.2 UN proper shipping name	OXIDIZING SOLID, N.O.S. (Potassium nitrate, )
14.3 Transport hazard class(es)	5.1 
14.4 Packing group	III
14.5 Environmental hazards	No.
<b>Additional information</b>	
<u>Marine pollutant</u>	: Not available.
<u>Emergency schedules (EmS)</u>	: F-A, S-Q

Regulation: IATA	
14.1 UN number	1479
14.2 UN proper shipping name	OXIDIZING SOLID, N.O.S. (Potassium nitrate, )
14.3 Transport hazard class(es)	5.1 
14.4 Packing group	III
14.5 Environmental hazards	No.
<b>Additional information</b>	
<u>Marine pollutant</u>	: No.

**14.6 Special precautions for user** : Transport within user's premises: Ensure that persons transporting the product know what to do in the event of an accident or spillage.

#### **IMSBC**

**Bulk cargo shipping name** : OXIDIZING SOLID, N.O.S.  
**Class** : Class 5.1: Oxidizing material.  
**Group** : B  
**Marpol V** : HME

**Transport in bulk according to Annex II of MARPOL and the IBC Code** : Not applicable.

## **Section 15. Regulatory information**

**HSNO Approval Number** : HSR002570  
**HSNO Group Standard** : Fertilisers (Oxidising [5.1.1])  
**HSNO Classification** : 5.1.1 - OXIDIZING SUBSTANCES - Category C6.1 -

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ACUTE TOXICITY: oral - Category D6.3 - SKIN  
 IRRITATION - Category B6.4 - EYE IRRITATION - Category A (Irritant)6.8 - REPRODUCTIVE AND DEVELOPMENTAL TOXICITY - Category A6.8 - REPRODUCTIVE AND DEVELOPMENTAL TOXICITY - Category A9.1 - AQUATIC ECOTOXICITY - Category D9.3 - TERRESTRIAL VERTEBRATE ECOTOXICITY - Category C

**Country information** : **SCHEDULE 1 (CONDITIONS OF GROUP STANDARD) of the Fertilisers (Oxidising [5.1.1]) Group Standard 2006.**  
 Any location at which a substance is manufactured or stored in quantities that exceed those set out in the Standards' Tables 2 (except a location situated on a farm > hectares), 3, and 4 must comply with the corresponding conditions as set out in the Standards' clauses 6, 7 and 8.

#### Inventory list

**New Zealand Inventory of Chemicals (NZIoC):** All components are listed or exempted.

**Japan inventory:** All components are listed or exempted.

**China inventory (IECSC):** All components are listed or exempted.

**Australia inventory (AICS):** All components are listed or exempted.

**United States inventory (TSCA 8b):** All components are listed or exempted.

**EC INVENTORY (EINECS/ELINCS):** All components are listed or exempted.

## Section 16. Other information

**Key to abbreviations** :

- ADN/ADNR = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
- ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
- ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- bw = Body weight
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- IATA = International Air Transport Association
- IBC = Intermediate Bulk Container
- IMDG = International Maritime Dangerous Goods
- LogPow = logarithm of the octanol/water partition coefficient
- MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
- NOHSC - National Occupational Health and Safety Commission
- RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
- SUSDP - Standard for the Uniform Scheduling of Drugs and Poisons
- UN = United Nations

#### **Procedure used to derive the classification**

Classification	Justification
5.1.1 - OXIDIZING SUBSTANCES - Category C	Expert judgment.

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6.1 - ACUTE TOXICITY (oral) - Category D	Calculation method
6.3 - SKIN IRRITATION - Category B	Calculation method
6.4 - EYE IRRITATION - Category A (Irritant)	Calculation method
6.8 - REPRODUCTIVE AND DEVELOPMENTAL TOXICITY (Fertility) - Category A	Calculation method
6.8 - REPRODUCTIVE AND DEVELOPMENTAL TOXICITY (Unborn child) - Category A	Calculation method
9.1 - AQUATIC ECOTOXICITY - Category D	Calculation method
9.3 - TERRESTRIAL VERTEBRATE ECOTOXICITY - Category C	Calculation method

### History

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**Prepared by** : Yara Chemical Compliance (YCC).

|| Indicates information that has changed from previously issued version.

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