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Safety Data Sheet

Agri K 415 ™ revision SDS 02 9th Dec 2020

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier	
Product Name	**Agri K 415**
Other Names	None
1.2 Relevant identified uses of the substance or mixture and uses advised against	
Uses:	Plant food, activator, and catalyst, for professional applicators to be used on farms (loading and spreading), greenhouses, open fields (foliar and fertigation)
Uses advised against **Reason**	Other non-specified industry Due to lack of related experience or data, the supplier cannot approve this use
Chemical family	Inorganic mineral based plant nutrition
Chemical formula	Formulated product see section 3
Chemical name	Formulated product see section 3
Product description	Liquid fertiliser, for the correction/prevention of nutrient deficiencies
1.3 Contact details of the supplier of this Safety Data Sheet	
Company Name	Agrichem
Company address	2 Hovey Rd Yatala QLD 4207 Australia
Phone number	+ 61 7 3451 0000
Email	customerservice@agrichem.com.au
1.4 Emergency telephone number	
National advisory body or poison information centre	Not available
Supplier Emergency telephone number	Poison Information Centre Australia +**61 13 11 26** (24h)

2. HAZARD IDENTIFICATION

Classification of the substance or mixture	Product is defined as a mixture
Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]	
Classification	Metal Corrosion category 1, H290 Skin Corrosion category 1, H314 Eye Damage category 1, H318 STOT SE category 3, H335
This product is classified as hazardous according to Regulation (EC) 1272/2008 as amended	
See section 16 for the full test of the H statements declared above. See section 11 for more detailed information on health effects and symptoms.	
2.2 Label elements	
Hazard Pictograms	
Signal word	Danger
Hazard Statements	H290 May be corrosive to metals. H314 Causes severe skin burns and eye damage.

	H335 May cause respiratory irritation
Precautionary Statements Prevention **Response**	P280-d Wear protective gloves/clothing and eye/face protection. P260-b Do not breathe gas or vapour. P305 IF IN EYES: P351 Rinse cautiously with water for several minutes. P338 Remove contact lenses, if present and easy to do. Continue rinsing. P304 IF INHALED: P340 Remove person to fresh air and keep comfortable for breathing. P303 IF ON SKIN (or hair): P361-a Take off immediately all contaminated clothing. P353 Rinse skin with water.
Storage	P102 Keep out of reach of children. P234 Keep only in original packaging. P405 Store locked up.
Disposal	P501 Dispose contents / container in accordance with local / regional & national regulations
EU Regulation (EC) No. 1907/2006 (REACH) Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Application table 3
Special packaging requirements	**Containers to be fitted with child-resistant fastening:** Not applicable **Tactile warning of danger:** Not applicable
2.3 Other hazards	
Other hazards which do not result in classification	None

3. INFORMATION ON INGREDIENTS				
3.2 Mixtures				
Formulation type:	Mixture			
Product / ingredient name	**Identifiers**	**%**	Regulation (EC) No. 1272/2008 [CLP]	**Type**
Potassium carbonate	RRN: 01-2119532646-36 EC: 209-529-3 CAS : 584-08-7	≥40 - <50	Skin Irritant, cat 2, H315 Eye Irritant, cat 2, H319 STOT SE cat 3, H335	(1)

Type
[1] Substance classified with a physical, health or environmental hazard
[2] Substance with a workplace exposure limit
[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
[5] Substance of equivalent concern
See Section 16 for the full text of the H statements declared above.
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, are PBTs, vPvB or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.
Occupational exposure limits, if available, are listed in Section 8.

4. FIRST AID MEASURES

4.1 Description of first aid measures	
Eye	Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Check for and remove any contact lenses. Get medical attention immediat Chemical burns must be treated promptly by a medical doctor
Inhalation	Avoid inhalation of vapor, spray or mist. If inhaled, remove to fresh air. Get medical attention immediately. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If breathing is difficult, give oxygen.
Skin contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Chemical burns must be treated promptly by a medical doctor
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 if you feel unwell.
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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
4.2 Most important symptoms and effects, both acute and delayed	
Over-exposure signs/symptoms	
Eye contact	Adverse symptoms may include the following: pain, watering and redness
Inhalation	Adverse symptoms may include the following: respiratory tract irritation and coughing
Skin contact	Adverse symptoms may include the following: pain or irritation and blistering may occur
Ingestion	May cause burns to mouth, throat and stomach
4.3 Indication of any immediate medical attention and special treatment needed	
Advice to Doctor	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	No specific treatment

5. FIRE FIGHTING MEASURES

5.1 Extinguishing Media .	
Suitable extinguishing media	Use any means suitable for extinguishing surrounding fire
Unsuitable extinguishing media	None identified
5.2 Special hazards arising from the substance or mixture	
Hazards from the substance or mixture	In a fire or if heated, a pressure increase will occur, and the container may burst
Hazardous combustion products	Avoid breathing dusts, vapours or fumes from burning materials. In case of inhalation of decomposition products in a fire, symptoms may be delayed.
5.3 Advice for fire fighters	
Special protective actions for fire fighters	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.
Special protective equipment f fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures	
For non-emergency personnel	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. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
For emergency responders	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 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)
6.3 Methods and materials for containment and cleaning up	
Small spill	Stop leak if without risk. Move containers from spill area. Dilute with water and mop if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry materia and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	Stop leak if without risk. Move containers from spill area. Approach release from upwind. 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 container for disposal according t local regulations. Dispose of via a licensed waste disposal contractor. Contaminat absorbent material may pose the same hazard as the spilled product.
6.4 Reference to other sections	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

7. HANDLING AND STORAGE

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).	
7.1 Precautions for safe handling	
Not for human or animal consumption	
Protective measures	Put on appropriate personal protective equipment (see Section 8). As a precaution, keep exposure as low as possible for pregnant women, children, and workers in reproductive age. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from acids. Empty containers retain product residue and can be hazardous. Do not reuse container. Spillages should be cleaned up promptly to avoid damage to surrounding materials
Advice on general occupational hygiene	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.
7.2 Conditions for safe storage, including any incompatibilities	

Recommendations	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. Store in a corrosion resistant container with a resistant inner liner. Store locked up. Separate from acids. 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. Bund storage facilities to prevent soil and water pollution in the event of spillage
7.3 Specific end uses	
Recommendations	Do not generate and inhale 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 drums and maintenance of equipment is recommended to minimize inhalation exposure and to ensure safe-use during this activity (see section 8)

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in t Exposure Scenario(s).

8.1 Control parameters	
Occupational Exposure Limits	
Product /ingredient name	
Potassium carbonate	No exposure limit values are known
Recommended monitoring procedures	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres – Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres – General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Type	Exposure	Value	Population	Effects
Potassium carbonate	DNEL	Long term inhalation	10 mg/m^3	Workers	Local
	DNEL	Long term dermal	16 mg/m^3	Workers	Local
Potassium carbonate	PNEC	No PNECs available			

8.2 Exposure controls	
Appropriate engineering controls	Use only with adequate ventilation. 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.
Individual protection measures	
Hygiene measures	A washing facility or water for eye and skin cleaning purposes should be present. 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.
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 to CEN: EN166
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. For general applications, we recommend gloves with a thickness typically greater than 0.35 mm. It should be emphasized that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. > 8 hours (breakthrough time): Protective gloves should be worn under normal conditions of use.
Body protection	Personal protective equipment for the body should be selected based on the task being performed and the risks involved.
Other skin protection	Appropriate footwear and any additional skin protection measures 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.
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.
Personal protective equipment (Pictograms)	

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid
Appearance	Solution
Odour	Slight, characteristic
Odour threshold	Not determined
Colour	Clear to pale yellow
pH	>13
Vapour pressure	No Data Available
Vapour density	No Data Available
Relative Vapour Density	No Data Available
Boiling point	>100 degrees Celsius
Melting point	No Data Available
Freezing point	No Data Available
Solubility in water	Soluble
Specific gravity	1.515 – 1.525 g/cm^3
Miscibility with water	Aqueous solution
Partition coefficient: noctanol/water	Not determined
Flash point	No Data Available
Flammability (solid, gas)	Non- flammable
Upper/lower flammability or explosive limits	**Lower:** No Data Available **Upper**: No Data Available
Evaporation rate	No Data Available
Auto Ignition Temperature	No Data Available
Explosive properties	Non-Explosive
Oxidising properties	None
Molecular weight	No Data Available
Particle size	Not applicable to solutions
Particle size distribution	Not applicable to solutions
Viscosity	>10 centipoise

Note: Physical data are typical values but may vary from sample to sample. A typical value should not be construed as a guaranteed analysis or as a specification.

10. STABILITY AND REACTIVITY	
10.1 Reactivity	May be corrosive to metals. Expert judgment
10.2 Chemical Stability	Stable under ordinary conditions.
10.3 Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	Avoid contamination by any source including metals, dust and organic materials.
10.5 Incompatible materials	Reactive or incompatible with the following materials: Acids and metals
10.6 Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION					
11.1 Information on toxicological effects					
Acute toxicity					
Product ingredient name	**Method**	**Species**	**Result**	**Exposure**	**References**
Potassium carbonate	LD50 Oral	Rat	>2000 mg/kg	Not applicable	
	LD50 Dermal	Rabbit	➢ 2000mg/kg		ECHA
Conclusion / Summary	Causes skin irritation, Causes serious eye irritation.				
Acute toxicity estimates (ATE)	Oral route ATE value >3000 mg/kg				
Irritation/corrosion					
Conclusion summary					
Skin	Corrosive to skin				
Eyes	Causes serious eye damage				
Respiratory	May cause respiratory irritation				
Sensitization					
Conclusion summary					
Skin	No data available for this end-point, hence this classification is not considered to be applicable				
Respiratory	No data available for this end-point, hence this classification is not considered to be applicable				
Mutagenicity					
Conclusion summary	No known significant effects or critical hazards				
Carcinogenicity					
Conclusion summary	No known significant effects or critical hazards				
Reproductive toxicity					
Conclusion summary	No known significant effects or critical hazards				
Specific target organ toxicity (single exposure)					
Product ingredient name	**Category**	**Exposure route**	**Target organs**		
Potassium carbonate	Cat 3	Not applicable	Respiratory tract irritation		
Information on the likely routes of exposure	No data available				
Potential acute health effects					
Inhalation	May cause respiratory irritation. Vapor may be irritating to eyes and respiratory system				
Ingestion	May cause burns to the mouth, throat and stomach				

Skin contact	Causes severe burns
Eye contact	Causes serious eye damage.
Symptoms related to the physical, chemical and toxicological characteristics	
Inhalation	Adverse symptoms may include the following: respiratory tract irritation coughing
Ingestion	May cause burns to the mouth, throat and stomach
Skin contact	Adverse symptoms may include the following: pain or irritation blistering may occur
Eye contact	Adverse symptoms may include the following: pain watering and redness
Delayed and immediate effects and also chronic effects from short and long term exposure	
Short term exposure	
Potential immediate effects	No known significant effects or critical hazards
Potential delayed effects	No known significant effects or critical hazards
Long term exposure	
Potential immediate effects	No known significant effects or critical hazards
Potential delayed effects	No known significant effects or critical hazards
Potential chronic health effe	
Carcinogenicity	No known significant effects or critical hazards
Mutagenicity	No known significant effects or critical hazards
Fertility effects	No known significant effects or critical hazards
Developmental effects	No known significant effects or critical hazards
Effects on lactation	No known significant effects or critical hazards
Other effects	No known significant effects or critical hazards
Other information	No data available

12. ECOLOGICAL INFORMATION

12.1 Toxicity	**Method**	**Species**	**Result**	**Exposure**	**References**
Potassium carbonate	Acute LC50 Fresh water	Fish	68 mg/l	96 hours	IUCLID
	Acute EC50	Daphnia	200 ml/l	48 hours	IUCLID
Conclusion summary	No known significant effects or critical hazards				
Product/ingredient name					
Potassium carbonate					
12.2 Persistence and degradability					
Conclusion/Summary	No known significant effects or critical hazards.				

12.3 Bioaccumulative potential			
Product ingredient name	**LogPow**	**BCF**	**Potential**
Potassium carbonate	No data available		
Conclusion summary	No known significant effects or critical hazards.		
12.4 Mobility in soil			
Soil/water partition coefficient (KOC)	No data available		
Mobility	No data available		

12.5 Results of PBT and vPvB assessment	
PBT	No data available
vPvB	No data available
12.6 Other adverse effects	No known significant effects or critical hazards.

13. DISPOSAL CONSIDERATIONS

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods 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.
Hazardous waste	Yes
European waste catalogue (EWC)	
Waste code	Waste designation
06 03 13*	solid salts and solutions containing heavy metals
Packaging method of disposal	The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	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 run off and contact with soil, waterways, drains and sewers.

14. TRANSPORTATION INFORMATION

Regulation: ARD/RID	
14.1 UN number	3266
14.2 UN proper shipping name	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Potassium carbonate)
14.3 Transport hazard class (es)	8 
14.4 Packaging group	II
14.5 Environmental hazard	No
Additional information **Hazard identification number** **Tunnel code**	 80 E

Regulation: ADN	
14.1 UN number	3266
14.2 UN proper shipping name	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Potassium carbonate)

14.3 Transport hazard class (es)	8 
14.4 Packaging group	II
14.5 Environmental hazard	No
Additional information **Danger code**	Not applicable

Regulation: IMDG	
14.1 UN number	3266
14.2 UN proper shipping name	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Potassium carbonate)
14.3 Transport hazard class (es)	8 
14.4 Packaging group	II
14.5 Environmental hazard	No
Additional information	
Marine pollutant **IMDG Code Segregation Group** **Emergency schedules (EmS)**	No SG18 F-A, S-B

Regulation: IATA	
14.1 UN number	3266
14.2 UN proper shipping name	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Potassium carbonate)
14.3 Transport hazard class (es)	8

	
14.4 Packaging group	II
14.5 Environmental hazard	No
Additional information	
Marine pollutant	No

14.6 Special precautions for user

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.
14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code	Not available
14.8 IMSBC	Not applicable

15. REGULATORY INFORMATION	
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture	EU Regulation (EC) No. 1907/2006 (REACH) Annex XIV - List of substances subject to authorization Annex XIV: None of the components are listed
Substance of very high concern	None of the components are listed
EU Regulation (EC) No. 1907/2006 (REACH) Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Applicable, Table 3
Other EU regulations	
Ozone depleting substances (1005/2009/EU)	None of the components are listed.

Prior Informed Consent (PIC) (649/2012/EU)	None of the components are listed.
Seveso Directive	This product is controlled under the Seveso Directive
National regulations	
Biological product regulations	Not applicable
Notes	To our knowledge no other country or state specific regulations are applicable
15.2 Chemical Safety Assessment	Complete

16. OTHER INFORMATION

The information contained in this SDS is by way of general comment only. Because conditions of use, suitability of product and application conditions are beyond the control of Agrichem, this SDS does not offer any advice in respect to any product. The authors and Agrichem Manufacturing Industries Pty Ltd hereby disclaim any liability to any person, property, or thing in respect of any consequence of anything done or omitted to be done by any person in reliance, whether wholly or in part, upon whole or part of the contents of this SDS.

KEY

< Less than
> Greater than
a.i. Active ingredient
ADG Code Australian dangerous goods code
AICS Australian Inventory of Chemical Substances
ATE Acute toxicity extimation
atm Atmosphere
bw Body weight
CLP Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
CAS Chemical Abstract Service (registry number)
Cm^2 Square Centimetres
CO2 Carbon Dioxide
deg C (°C) Degrees Celsius
DNEL Derived No Effect Level
DMEL Derived Minimal Effect Level
EPA Environmental Protection Agency based in each state of Australia
EUH statement = CLP-specific Hazard statement
g Grams
g/cm3 Grams per Cubic Centimetre
g/l Grams per Litre
GRAS Generally recognised as safe
HSIS Hazardous substances information system
HSNO Hazardous substances and New Organism
HDPE High density polypropylene
IDLH Immediately Dangerous to Life and Health
Immiscible Liquid are insoluble in each other
inHg inch of Mercury
I**nH_20** Inch of Water
K Kelvin
kg Kilogram
kg/m^3 Kilogram per Cubic Metre
LC_{50} LC stands for lethal concentration, LC_{50} is the concentration of a product in air that will cause the death of 50% of a population of test animals. Product is normally inhaled for between 1 and more typically 4 hours
LD_{50} LD stands for lethal dose. LD_{50} is the amount of product given in a single dose, causing death in 50% of a population of test animals.
LDLo The lowest amount of a solid or liquid material reported to have caused the death of animals or humans
m^3 Cubic Metre
MAPP Major accident prevention policy
mbar Millibar
mg Milligram
mg/24H Milligrams per 24 hours
mg/kg Milligrams per Kilogram
mg/m^3 Milligrams per Cubic Metre
Misc or **Miscible** Liquids from one homogeneous liquid phase regardless of the amount of either component present
mm Millimetre
mmH_2O Millimetres of Water
mPa.s Millipascals per Second
MSHA Mine safety and health administration
N/A Not Applicable

NIOSH National Institute for Occupational Safety and Health
NOHSC National Occupational Health and Safety Commission
OECD Office for Economic Co-operation and Development
PBT Persistent, Bioaccumulative and Toxic
vPvB Very Persistent and Very Bioaccumulative
PEL Permissible Exposure Limit
PNEC Predicted No Effect Concentration
Pa Pascal
ppb Parts per Billion
PPE personal protective equipment
ppm Parts per Million
ppm/2h Parts per million per 2 hours
ppm/6h Parts per million per 6 hours
psi Pounds per square inch
R Rankine
RRN REACH Registration Number
RCP Reciprocal Calculation Procedure
SCBA Self Contained Breathing Apparatus
SWA Safe Work Australia
STEL Short Term Exposure Limit
SUSMP Standard for the uniform scheduling of medicines and poisons
TVL Threshold Limit Value
TWA Time Weighted Average
UN United Nations
wt Weight

Key data sources
HSDB Hazardous Substances Data Bank
EU Reach

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]	
Classification	**Justification**
Met. Corr. 1, H290	Expert judgment
Skin Corr. 1, H314	On basis of test data
Eye Dam. 1, H318	On basis of test data
STOT SE 3, H335	Calculation method
Full text of abbreviated H statements	
H290	May be corrosive to metals.
H302.	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318.	Causes serious eye damage.
H319	Causes serious eye irritation
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H335	May cause respiratory irritation.
Full text of classifications [CLP/GHS]	
Met. Corr. 1, H290	CORROSIVE TO METALS - Category 1
Acute Tox. 4, H302	ACUTE TOXICITY (oral) - Category 4
Skin Corr. 1, H314	SKIN CORROSION/IRRITATION - Category 1
Skin Irrit. 2, H315	SKIN CORROSION/IRRITATION - Category 2
Eye Dam. 1, H318	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
Eye Irrit. 2, H319	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
Acute Tox. 4, H332	ACUTE TOXICITY (inhalation) - Category 4
STOT SE 3, H335	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

End of SDS