


Safety Data Sheet

Supa Link™ revision EU SDS 02 21th Dec 2020

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier	
Product Name	Supa Link
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	Other non-specified industry
Reason	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	Physical hazards: Based on available data, the classification criteria are not met. Health hazards: Serious eye damage/ eye irritation Category 2 (H319). Environmental hazards: Based on available data, the classification criteria are not met.
This product is Not classified as hazardous according to Regulation (EC) 1272/2008 as amended	
2.2 Label elements	
Hazard Pictograms	
Signal word	Warning
Hazard Statements	H319 - Causes serious eye irritation
Precautionary Statements	
Prevention	P264 - Wash face, hands and any exposed skin thoroughly after handling.

	P280 - Wear protective gloves/protective clothing/eye protection/face protection
Response	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
Storage	P102 Keep out of reach of children. 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	Refer to chapter 3 for component details
Special packaging requirements	Containers to be fitted with child-resistant fastening: Required Tactile warning of danger: Not applicable
2.3 Other hazards	
Other hazards which do not result in classification	No data available

3. INFORMATION ON INGREDIENTS				
3.2 Mixtures				
Formulation type:	Mixture			
Product / ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
2-Hydroxypropane-1,2,3-tricarboxylic acid	RRN: 201-069-1 EC: 201-069-1 CAS: 77-92-9	>35 - <45	H319 - Causes serious eye irritation	(1)
Water	EC: 231-791-2 CAS: 7732-18	>45 - <65	Not classified	-

Note the reaction of the above ingredients forms a salt which is not classified as hazardous

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	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Inhalation	Remove to fresh air. Get medical attention if symptoms occur. If not breathing, give artificial respiration.

Skin contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.
Ingestion	Do NOT induce vomiting. Get medical attention.
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training.
4.2 Most important symptoms and effects, both acute, delayed and over-exposure signs/symptoms	
Eye contact	Remove to fresh air. Get medical attention if symptoms occur. If not breathing, give artificial respiration
Inhalation	
Skin contact	
Ingestion	
4.3 Indication of any immediate medical attention and special treatment needed	
Advice to Doctor	Treat symptomatically
Specific treatments	No specific treatment

5. FIRE FIGHTING MEASURES

5.1 Extinguishing Media

Suitable extinguishing media	Water spray, carbon dioxide (CO ₂), dry chemical, alcohol-resistant foam
Unsuitable extinguishing media	No information available

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	Keep product and empty container away from heat and sources of ignition. If product is permitted to dry and fine dust is generated and dispersed in air may ignite.
Hazardous combustion products	Carbon monoxide (CO), Carbon dioxide (CO ₂).

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 there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapours.

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 face/eye protection. 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	Should not be released into the environment, outside of label use. See Section 12 for additional Ecological Information
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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 up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert
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	dry material 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. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal
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). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Avoid release to the environment. 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. Provide adequate ventilation.
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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.
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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. Storage temperature >5° C keep from freezing. 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.
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Seveso III Directive - Reporting thresholds

Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
No data available beyond that in section 2	No data available beyond that in section 2	No data available beyond that in section 2

7.3 Specific end use (s)

Recommendations	General use in plant management in agriculture and horticulture situations
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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

8.1 Control parameters

Occupational Exposure Limits	Listed sources(S):
Product /ingredient name	2-Hydroxypropane-1,2,3-tricarboxylic acid
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	No additional data available		
PNECs (endpoint) 2-Hydroxypropane-1,2,3-tricarboxylic acid	Threshold level	Environmental compartment	Exposure period
	0.44 mg/l	Freshwater	Short term (single instance)
	0.044 mg/l	Marine water	Short term (single instance)
	1000mg/l	Sewage treatment plant (STP)	Short term (single instance)
	34.6 mg/l	Freshwater sediment	Short term (single instance)
	34.6 mg/l	Marine sediment	Short term (single instance)
	33.1 mg/l	Soil	Short term (single instance)
8.2 Exposure controls			
Appropriate engineering controls	Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas. Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source.		
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 dust. Ref EN166		
Skin protection			
Hand protection	Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Type of glove material: NBR (Nitrile rubber), Glove thickness 0.11mm, Glove material breakthrough time 480 minutes. Ref EN374		
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	In case of inadequate ventilation wear respiratory protection. Ref EN136 & 143 if exposure limits are exceeded		
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	Solution
Appearance	Liquid
Odour	Slight, characteristic
Odour threshold	Not determined
Colour	Yellow
pH	<2
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	Complete
Specific gravity	1.16 – 1.18 g/cm ³
Miscibility with water	No Data Available
Partition coefficient: noctanol/water	Not determined
Flash point	No Data Available
Flammability (solid, gas)	Not applicable to liquids
Upper/lower flammability or explosive limits	Lower: No Data Available Upper: No Data Available
Evaporation rate	Slow
Auto Ignition Temperature	No Data Available
Explosive properties	No Data Available
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	None known, based on information available
10.2 Chemical Stability	Stable under ordinary conditions
10.3 Possibility of hazardous reactions	No Data Available
10.4 Conditions to avoid	Avoid incompatible products, excess heat and temperatures above 170 deg C
10.5 Incompatible materials	Strong oxidizing agents. Strong bases. . Strong acids. Strong bases.
10.6 Hazardous decomposition products	Strong oxidizing agents. Strong bases. . Strong acids. Strong bases.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity					
Product ingredient name	Method	Species	Result	Exposure	References
2-Hydroxypropane-1,2,3-tricarboxylic acid	LD50 Oral	Mouse	5790 mg/kg	Not applicable	HSDB
	Skin & eye irritation	Rabbit	Mild	5 mg 30 sec rinse	HSDB
	LD50 subcutaneous	Rat	5500 mg/kg	-	HSDB
Conclusion / Summary	Mild irritant to eyes				
Acute toxicity estimates (ATE)	Oral ATE = 11911 mg/kg				
Irritation/corrosion , 2-Hydroxypropane-1,2,3-tricarboxylic acid					
Conclusion summary:					
Skin	Based on data available. the classification criteria are not met. Redness (ILO international chemical safety cards (ICSC) HSDB				
Eyes	Serious eye damage Category 2. Redness, pain (ILO international chemical safety cards (ICSC) HSDB				
Respiratory / Skin	Based on data available. the classification criteria are not met. Cough. Sore throat (ILO international chemical safety cards (ICSC) HSDB				
Sensitization , 2-Hydroxypropane-1,2,3-tricarboxylic acid					
Conclusion summary					
Skin	Based on data available. the classification criteria are not met.				
Respiratory	Based on data available. the classification criteria are not met.				
Mutagenicity , 2-Hydroxypropane-1,2,3-tricarboxylic acid					
Conclusion summary					
Based on data available. the classification criteria are not met.					
Carcinogenicity , 2-Hydroxypropane-1,2,3-tricarboxylic acid					
Conclusion summary					
Based on data available. the classification criteria are not met.					
Reproductive toxicity , 2-Hydroxypropane-1,2,3-tricarboxylic acid					
Conclusion summary					
Based on data available. the classification criteria are not met.					
Specific target organ toxicity (single and repeated exposure)					
Product ingredient name	NOAEL	Exposure route		Target organs	
This product	Based on data available. the classification criteria are not met.				
Information on the likely routes of exposure	No data available				
Potential acute health effects					
Inhalation	No data available				
Ingestion	No data available				
Skin contact	No data available				
Eye contact	Serious eye damage/ eye irritation Category 2				
Symptoms related to the physical, chemical and toxicological characteristics					
Inhalation	No data available				
Ingestion	No data available				
Skin contact	No data available				
Eye contact	Serious eye damage/ eye irritation Category 2				
Delayed and immediate effects and also 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	No known significant effects or critical hazards
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
Over exposure signs/ symptom	
Eye contact	Serious eye damage/ eye irritation Category 2
Inhalation	No specific data
Skin contact	No specific data
Ingestion	No specific data

12. ECOLOGICAL INFORMATION			
12.1 Toxicity	Method	Species	Result
2-Hydroxypropane-1,2,3-tricarboxylic acid	LC50	Leuciscus idus	4440 - 760 mg/l, 96 hours
	EC50	Fater flea	120 mg/l, 72 hours
Conclusion summary	No known significant effects or critical hazards		
12.2 Persistence and degradability	Product is biodegradable, persistence is unlikely		
Conclusion/Summary	No known significant effects or critical hazards.		
12.3 Bio accumulative potential			
Product ingredient name	Log Pow	Bioconcentration factor (BCF)	Potential
2-Hydroxypropane-1,2,3-tricarboxylic acid	-1.72	No data available	-
Conclusion summary	Bio accumulation is unlikely		
12.4 Mobility in soil	Highly mobile in soils		
2-Hydroxypropane-1,2,3-tricarboxylic acid			
Soil/water partition coefficient (KOC)	No data available		
Mobility	The product is water soluble, and may spread in water systems. Will likely be mobile in the environment due to its water solubility.		
12.5 Results of PBT and vPvB assessment			
PBT	Substance is not considered persistent, bioaccumulative and toxic (PBT) / very		
vPvB	persistent and very bioaccumulative (vPvB).		
12.6 Other adverse effects	No known significant effects or critical hazards.		

13. DISPOSAL CONSIDERATIONS
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.

Hazardous waste	Yes
European waste catalogue (EWC)	
Waste code	According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.
	Waste codes should be assigned by the user based on the application for which the product was used. Do not empty into drains. Solutions with low pH-value must be neutralized before discharge.
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

ARD	
14.1 UN number	Not regulated
14.2 UN proper shipping name	Not applicable
14.3 Transport hazard class (es)	Not applicable
14.4 Packaging group	Not applicable
14.5 Environmental hazard	No applicable
Additional information	Not applicable

Regulation: IMDG

14.1 UN number	Not regulated
14.2 UN proper shipping name	Not applicable
14.3 Transport hazard class (es)	Not applicable
14.4 Packaging group	Not applicable
14.5 Environmental hazard	Not applicable
Marine pollutant	Not applicable

Regulation: IATA

14.1 UN number	Not regulated
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14.2 UN proper shipping name	Not applicable
14.3 Transport hazard class (es)	Not applicable
14.4 Packaging group	Not applicable
14.5 Environmental hazard	Not applicable
Additional information Marine pollutant	Not applicable

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.
IMSBC	Not applicable
Transport in bulk according to IMO instruments	Not applicable

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture	<p>1. REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC with amendments</p> <p>2. COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)</p> <p>3. REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; with amendments</p> <p>4. European Agreement concerning the International Carriage of Dangerous Goods by Road</p> <p>5. Regulation (EU) No 649/2012 Of The European Parliament and of The Council of 4 July 2012 concerning the export and import of hazardous chemicals.</p> <p>6. Regulation (EC) No 850/2004 Of The European Parliament and of The Council Of 29 April 2004 On Persistent Organic Pollutants And Amending Directive 79/117/EEC.</p>
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	No data available
Danger criteria	No data available
National regulations	2-Hydroxypropane-1,2,3-tricarboxylic acid Germany- water classification (VwVwS) WGK1
Biological product regulations	Not applicable

Notes	To our knowledge no other country or state specific regulations are applicable
15.2 Chemical Safety Assessment	For this product a chemical safety assessment was not carried out

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	of test animals. Product is normally inhaled for between 1 and more typically 4 hours
> Greater than	LD₅₀ 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.
a.i. Active ingredient	LDLo The lowest amount of a solid or liquid material reported to have caused the death of animals or humans
ADG Code Australian dangerous goods code	m³ Cubic Metre
AICS Australian Inventory of Chemical Substances	MAPP Major accident prevention policy
ATE Acute toxicity estimation	mbar Millibar
atm Atmosphere	mg Milligram
bw Body weight	mg/24H Milligrams per 24 hours
CLP Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]	mg/kg Milligrams per Kilogram
CAS Chemical Abstract Service (registry number)	mg/m³ Milligrams per Cubic Metre
Cm² Square Centimetres	Misc or Miscible Liquids from one homogeneous liquid phase regardless of the amount of either component present
CO₂ Carbon Dioxide	mm Millimetre
deg C (°C) Degrees Celsius	mmH₂O Millimetres of Water
DNEL Derived No Effect Level	mPa.s Millipascals per Second
DMEL Derived Minimal Effect Level	MSHA Mine safety and health administration
EPA Environmental Protection Agency based in each state of Australia	N/A Not Applicable
EUH statement = CLP-specific Hazard statement	NIOSH National Institute for Occupational Safety and Health
g Grams	NOHSC National Occupational Health and Safety Commission
g/cm³ Grams per Cubic Centimetre	OECD Office for Economic Co-operation and Development
g/l Grams per Litre	PBT Persistent, Bioaccumulative and Toxic
GRAS Generally recognised as safe	vPvB Very Persistent and Very Bioaccumulative
HSIS Hazardous substances information system	PEL Permissible Exposure Limit
HSNO Hazardous substances and New Organism	PNEC Predicted No Effect Concentration
HDPE High density polypropylene	Pa Pascal
HSDB Hazardous substances data base	ppb Parts per Billion
IDLH Immediately Dangerous to Life and Health	PPE personal protective equipment
Immiscible Liquid are insoluble in each other	ppm Parts per Million
inHg inch of Mercury	ppm/2h Parts per million per 2 hours
InH₂O Inch of Water	ppm/6h Parts per million per 6 hours
K Kelvin	psi Pounds per square inch
kg Kilogram	R Rankine
kg/m³ Kilogram per Cubic Metre	RRN REACH Registration Number
LC₅₀ 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	

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
ECHA
Thermo Fisher scientific/ Carl Roth SDS citric acid

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]	
Classification	Justification
H319	Dilution
Full text of abbreviated H statements	
Classified	Health hazards: Serious eye damage/ eye irritation Category 2 (H319).

End of SDS