

**Clax Neutrapur 60A1**

Revision: 2015-10-08

Version: 01.0

**SECTION 1: Identification of the substance/mixture and supplier**

**1.1 Product identifier**

**Product name:** Clax Neutrapur 60A1

**1.2 Recommended use and restrictions on use**

**Identified uses:**

Alkalinity neutraliser

**Restrictions of use:**

Uses other than those identified are not recommended

**1.3 Details of the supplier**

Diversey Australia Pty. Limited

29 Chifley St, Smithfield, NSW, 2164, Australia

Telephone: 1800 647 779 (toll free)

Fax: (02) 9725 5767

Email: [aucustserv@sealedair.com](mailto:aucustserv@sealedair.com)

Website: <http://www.sealedair.com/>

**1.4 Emergency telephone number**

Call 1800 033 111 (24hrs)

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

Classified as hazardous according to Safe Work Australia criteria.

Flammable liquids, Category 4

Skin corrosion, Category 1B

AUH071

Corrosive to metals, Category 1

**2.2 Label elements**



**Signal word:** Danger

**Hazard statements:**

H227 - Combustible liquid.

H314 - Causes severe skin burns and eye damage.

AUH071 - Corrosive to the respiratory tract.

H290 - May be corrosive to metals.

**Prevention statement(s):**

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P234 - Keep only in original container.

P260 - Do not breathe vapours.

P264 - Wash face, hands and any exposed skin thoroughly after handling.

P280 - Wear protective gloves, protective clothing and eye or face protection.

**Response statement(s):**

P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a POISON CENTRE, doctor or physician.

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P321 - Specific treatment (see supplemental first aid instructions on this label).  
 P363 - Wash contaminated clothing before reuse.  
 P370 + P378 - In case of fire, use chemical powder for extinction.  
 P390 - Absorb spillage to prevent material damage.

**Storage statement(s):**

P403 + P235 - Store in a well-ventilated place. Keep cool.  
 P405 - Store locked up.  
 P406 - Store in corrosive-resistant container with a resistant inner liner.

**Disposal statement(s):**

P501 - Dispose of unused content as chemical waste.

**2.3 Other hazards****SECTION 3: Composition/information on ingredients****3.1 Substances / Mixtures**

Ingredient(s)	CAS number	EC number	Classification	Weight percent
formic acid	64-18-6	200-579-1	Flam. Liq. 3 (H226) Acute Tox. 3 (H331) Skin Corr. 1A (H314) Acute Tox. 4 (H302) AUH071	30-60
citric acid monohydrate	5949-29-1	201-069-1	Eye Irrit. 2 (H319)	1-3

Non-hazardous ingredients are the remainder and add up to 100%.

Workplace exposure limit(s), if available, are listed in subsection 8.1.  
 For the full text of the H and AUH phrases mentioned in this Section, see Section 16.

**SECTION 4: First aid measures****4.1 Description of first aid measures**

**Inhalation:** Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTRE, doctor or physician.

**Skin contact:** Take off immediately all contaminated clothing and wash it before re-use. Immediately call a POISON CENTRE, doctor or physician.

**Eye contact:** Immediately rinse eyes cautiously with lukewarm water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE, doctor or physician.

**Ingestion:** Rinse mouth. Immediately drink 1 glass of water. Do NOT induce vomiting. Keep at rest. Immediately call a POISON CENTRE, doctor or physician.

**Self-protection of first aider:** Consider personal protective equipment as indicated in subsection 8.2.

**First aid facilities:** Shower and eyewash facilities should be considered in a workplace where necessary.

**4.2 Most important symptoms and effects, both acute and delayed**

**Inhalation:** Corrosive to the respiratory tract.

**Skin contact:** Causes severe burns.

**Eye contact:** Causes severe or permanent damage.

**Ingestion:** Ingestion will lead to a strong caustic effect on mouth and throat and to the danger of perforation of oesophagus and stomach.

**4.3 Indication of any immediate medical attention and special treatment needed**

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

**Poison Information Center:** Call 13 11 26 (Australia Wide).

**SECTION 5: Firefighting measures****5.1 Extinguishing media**

Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam.

**5.2 Special hazards arising from the substance or mixture**

No special hazards known.

**5.3 Advice for firefighters**

As in any fire, wear self contained breathing apparatus and suitable protective clothing including gloves and eye/face protection.

**5.4 Hazchem code**

2X

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- 2 - Fine water spray.  
X - Liquid-tight chemical protective clothing and breathing apparatus. Contain.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Turn off all sources of ignition. Ventilate the area. Ensure adequate ventilation. Do not breathe dust or vapour. Wear suitable protective clothing, gloves and eye/face protection.

**6.2 Environmental precautions**

Do not allow to enter drainage system, surface or ground water. Dilute with plenty of water.

**6.3 Methods and material for containment and cleaning up**

Use neutralising agent. Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust). Ensure adequate ventilation.

**6.4 Reference to other sections**

For personal protective equipment see subsection 8.2. For disposal considerations see section 13.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling****Measures to prevent fire and explosions:**

Keep away from flames and hot surfaces. No smoking. Keep away from heat. Take precautionary measures against static discharges.

**Measures required to protect the environment:**

For environmental exposure controls see subsection 8.2.

**Advices on general occupational hygiene:**

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with other products unless advised by Sealed Air. Wash hands before breaks and at the end of workday. Wash face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Use personal protective equipment as required. Avoid contact with skin and eyes. Do not breathe vapours. Use only with adequate ventilation.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in accordance with local and national regulations. Keep only in original container. Store in a closed container.

For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

**7.3 Specific end use(s)**

No specific advice for end use available.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Workplace exposure limits**

Air limit values, if available:

Ingredient(s)	Long term value(s) (TWA)	Short term value(s) (STEL)	Peak value(s)
formic acid	5 ppm 9.4 mg/m <sup>3</sup>	10 ppm 19 mg/m <sup>3</sup>	

Biological limit values, if available:

**8.2 Exposure controls**

*The following information applies for the uses indicated in subsection 1.2 of the Safety Data Sheet.*

*If available, please refer to the product information sheet for application and handling instructions.*

*Normal use conditions are assumed for this section.*

*Recommended safety measures for handling the undiluted product:*

*Covering activities such as filling and transfer of product to application equipment, flasks or buckets*

**Appropriate engineering controls:**

If the product is diluted by using specific dosing systems with no risk of splashes or direct skin contact, the personal protection equipment as described in this section is not required.

**Appropriate organisational controls:**

Avoid direct contact and/or splashes where possible. Train personnel.

**Personal protective equipment****Eye / face protection:**

Safety glasses or goggles (EN 166). The use of a full-face shield or other full-face protection is strongly recommended when handling open containers or if splashes may occur.

**Hand protection:**

Chemical-resistant protective gloves (EN 374).

Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier.

Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature.

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Suggested gloves for prolonged contact:  
 Material: butyl rubber  
 Penetration time:  $\geq 480$  min  
 Material thickness:  $\geq 0.7$  mm

Suggested gloves for protection against splashes:  
 Material: nitrile rubber  
 Penetration time:  $\geq 30$  min  
 Material thickness:  $\geq 0.4$  mm

In consultation with the supplier of protective gloves a different type providing similar protection may be chosen.

**Body protection:** Wear chemical-resistant clothing and boots in case direct dermal exposure and/or splashes may occur.

**Respiratory protection:** Respiratory protection is not normally required. However, inhalation of vapour, spray, gas or aerosols should be avoided.

**Environmental exposure controls:** Should not reach sewage water or drainage ditch undiluted or unneutralised.

*Recommended safety measures for handling the diluted product:*

**Appropriate engineering controls:** No special requirements under normal use conditions.  
**Appropriate organisational controls:** No special requirements under normal use conditions.

**Personal protective equipment**

**Eye / face protection:** No special requirements under normal use conditions.  
**Hand protection:** No special requirements under normal use conditions.  
**Body protection:** No special requirements under normal use conditions.  
**Respiratory protection:** No special requirements under normal use conditions.

**Environmental exposure controls:** No special requirements under normal use conditions.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

	Method / remark
<b>Physical State:</b> Liquid	
<b>Colour:</b> Clear, Colourless	
<b>Odour:</b> Product specific	
<b>Odour threshold:</b> Not applicable	
<b>pH:</b> $< 2$ (neat) (20 °C)	
<b>Dilution pH:</b> $\approx 2$ (1%)	
<b>Melting point/freezing point (°C):</b> Not determined	
<b>Initial boiling point and boiling range (°C):</b> Not determined	
<b>Flash point (°C):</b> $> 80$	closed cup
<b>Sustained combustion:</b> Not applicable.	
<b>Evaporation rate:</b> Not determined	
<b>Flammability (solid, gas):</b> Not determined	
<b>Upper/lower flammability limit (%):</b> Not determined	
<b>Vapour pressure:</b> Not determined	
<b>Vapour density:</b> Not determined	
<b>Relative density:</b> 1.087 g/cm <sup>3</sup> (20 °C)	
<b>Solubility in / Miscibility with Water:</b> Fully miscible	
<b>Autoignition temperature:</b> Not determined	
<b>Decomposition temperature:</b> Not applicable.	
<b>Viscosity:</b> Not determined	
<b>Explosive properties:</b> Not explosive. Vapours may form explosive mixtures with air.	
<b>Oxidising properties:</b> Not oxidising	

### 9.2 Other information

**Surface tension (N/m):** Not determined

**Corrosion to metals:** Corrosive

Weight of evidence

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

### 10.2 Chemical stability

Stable under normal storage and use conditions.

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**10.3 Possibility of hazardous reactions**

No hazardous reactions known under normal storage and use conditions.

**10.4 Conditions to avoid**

Keep in a cool place. Keep container in a well-ventilated place.

**10.5 Incompatible materials**

Reacts with alkali and metals. Keep away from products containing chlorine-based bleaching agents or sulphites.

**10.6 Hazardous decomposition products**

None known under normal storage and use conditions.

**SECTION 11: Toxicological information****11.1 Information on toxicological effects**

Mixture data:

**Relevant calculated ATE(s):**

ATE - Oral (mg/kg): 1200

ATE - Inhalatory, vapours (mg/l): >20

Substance data, where relevant and available, are listed below.

**Acute toxicity**

Acute oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
formic acid	LD <sub>50</sub>	730	Rat	OECD 401 (EU B.1)	-
citric acid monohydrate	LD <sub>50</sub>	5400	Mouse	OECD 401 (EU B.1)	-

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
formic acid		No data available			-
citric acid monohydrate	LD <sub>50</sub>	> 2000	Rat	Method not given	-

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
formic acid	LC <sub>50</sub>	7.4	Rat	Non guideline test	4
citric acid monohydrate		No data available			-

**Irritation and corrosivity**

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
formic acid	Corrosive	Rabbit	OECD 404 (EU B.4)	
citric acid monohydrate	Not irritant	Rabbit	OECD 404 (EU B.4)	

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
formic acid	Corrosive	Rabbit	Weight of evidence	
citric acid monohydrate	Irritant	Rabbit	OECD 405 (EU B.5)	

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
formic acid	No data available			
citric acid monohydrate	No data available			

**Sensitisation**

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
formic acid	Not sensitising	Guinea pig	OECD 406 (EU B.6) / Buehler test	-
citric acid monohydrate	Not sensitising	Guinea pig	Method not given	-

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
formic acid	No data available			-

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citric acid monohydrate	No data available			-
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**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

## Mutagenicity

Ingredient(s)	Result (in-vitro)	Method (in-vitro)	Result (in-vivo)	Method (in-vivo)
formic acid	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13) OECD 476 (Chinese Hamster Ovary)	No data available	
citric acid monohydrate	No evidence for mutagenicity, negative test results	Method not given	No evidence of genotoxicity, negative test results	Method not given

## Carcinogenicity

Ingredient(s)	Effect
formic acid	No evidence for carcinogenicity, weight-of-evidence
citric acid monohydrate	No evidence for carcinogenicity, negative test results

## Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
formic acid			No data available		Read across		No evidence for reproductive toxicity No evidence for teratogenic effects
citric acid monohydrate			No data available				No evidence for reproductive toxicity

**Repeated dose toxicity**

## Sub-acute or sub-chronic oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
formic acid		No data available			-	
citric acid monohydrate	NOAEL	4000	Rat	Method not given	5	

## Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
formic acid		No data available			-	
citric acid monohydrate		No data available			-	

## Sub-chronic inhalation toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
formic acid	NOAEL	0.122	Rat	OECD 413 (EU B.29)	-	
citric acid monohydrate		No data available			-	

## Chronic toxicity

Ingredient(s)	Exposure route	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time	Specific effects and organs affected	Remark
formic acid	Oral	NOAEL	142	Rat	OECD 453 (EU B.33) Read across	12 month(s)		
citric acid monohydrate	Oral		2000	Rat	Method not given	90 day(s)	No effects observed	

## STOT-single exposure

Ingredient(s)	Affected organ(s)
formic acid	No data available
citric acid monohydrate	No data available

## STOT-repeated exposure

Ingredient(s)	Affected organ(s)
formic acid	No data available
citric acid monohydrate	No data available

**Aspiration hazard**

Substances with an aspiration hazard (H304), if any, are listed in section 3. If relevant, see section 9 for dynamic viscosity and relative density of the product.

**Potential adverse health effects and symptoms**

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Effects and symptoms related to the product, if any, are listed in subsection 4.2.

## SECTION 12: Ecological information

### 12.1 Toxicity

No data is available on the mixture.

Substance data, where relevant and available, are listed below

#### Aquatic short-term toxicity

Aquatic short-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
formic acid	LC <sub>50</sub>	68	<i>Leuciscus idus</i>	DIN 38412, Part 15	96
citric acid monohydrate	LC <sub>50</sub>	440	<i>Leuciscus idus</i>	OECD 203	48

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
formic acid	EC <sub>50</sub>	32.19	<i>Daphnia magna</i> Straus	79/831/EEC	48
citric acid monohydrate	LC <sub>50</sub>	1535	<i>Daphnia magna</i> Straus	Method not given	24

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
formic acid	EC <sub>50</sub>	32.64	<i>Pseudokirchneriella subcapitata</i>	DIN 38412, Part 9	72
citric acid monohydrate	LC <sub>50</sub>	425	<i>Scenedesmus quadricauda</i>	Method not given	168

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
formic acid		No data available			-
citric acid monohydrate		No data available			-

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
formic acid	EC <sub>10</sub>	72	Activated sludge	Method not given	312 hour(s)
citric acid monohydrate	EC <sub>0</sub>	> 10000	<i>Pseudomonas putida</i>	Method not given	16 hour(s)

#### Aquatic long-term toxicity

Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
formic acid		No data available				
citric acid monohydrate		No data available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
formic acid	NOEC	>= 102	<i>Daphnia magna</i>	OECD 211	21 day(s)	
citric acid monohydrate		No data available				

Aquatic toxicity to other aquatic benthic organisms, including sediment-dwelling organisms, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw sediment)	Species	Method	Exposure time (days)	Effects observed
formic acid	NOEC	72		Method not given	13	
citric acid monohydrate		No data available			-	

#### Terrestrial toxicity

Terrestrial toxicity - soil invertebrates, including earthworms, if available:

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Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
formic acid		No data available			-	
citric acid monohydrate		No data available			-	

Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
formic acid		No data available			-	
citric acid monohydrate		No data available			-	

Terrestrial toxicity - birds, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (days)	Effects observed
formic acid		No data available			-	
citric acid monohydrate		No data available			-	

Terrestrial toxicity - beneficial insects, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
formic acid		No data available			-	
citric acid monohydrate		No data available			-	

Terrestrial toxicity - soil bacteria, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
formic acid		No data available			-	
citric acid monohydrate		No data available			-	

**12.2 Persistence and degradability****Abiotic degradation**

Abiotic degradation - photodegradation in air, if available:

Ingredient(s)	Half-life time	Method	Evaluation	Remark
formic acid	30.1 day(s)	Method not given		

Abiotic degradation - hydrolysis, if available:

Ingredient(s)	Half-life time in fresh water	Method	Evaluation	Remark
formic acid	> 5 day(s)	Method not given	Not hydrolysible	

Abiotic degradation - other processes, if available:

**Biodegradation**

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT <sub>50</sub>	Method	Evaluation
formic acid			98 % in 14 day(s)	Method not given	Readily biodegradable
citric acid monohydrate		Method not given	97 % in 28 day(s)	Method not given	Readily biodegradable

Ready biodegradability - anaerobic and marine conditions, if available:

Ingredient(s)	Medium & Type	Analytical method	DT <sub>50</sub>	Method	Evaluation
formic acid	Seawater			Method not given	Readily biodegradable

Degradation in relevant environmental compartments, if available:

**12.3 Bioaccumulative potential**Partition coefficient n-octanol/water (log K<sub>ow</sub>)

Ingredient(s)	Value	Method	Evaluation	Remark
formic acid	-2.1	(EC) 440/2008, A.8	No bioaccumulation expected	
citric acid monohydrate	-1.72	Method not given	No bioaccumulation expected	

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
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formic acid	3.2		Method not given	No bioaccumulation expected	
citric acid monohydrate	No data available				

**12.4 Mobility in soil**

Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log K <sub>oc</sub>	Desorption coefficient Log K <sub>oc</sub> (des)	Method	Soil/sediment type	Evaluation
formic acid	No data available				Adsorption to solid soil phase is not expected
citric acid monohydrate	No data available				Potential for mobility in soil, soluble in water

**12.5 Other adverse effects**

No other adverse effects known.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Waste from residues / unused products:**

The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging material is suitable for energy recovery or recycling in line with local legislation.

**Empty packaging****Recommendation:**

Dispose of observing national or local regulations.

**Suitable cleaning agents:**

Water, if necessary with cleaning agent.

**SECTION 14: Transport information****ADG, IMO/IMDG, ICAO/IATA****14.1 UN number:** 3412**14.2 UN proper shipping name:**

Formic acid, solution

**14.3 Transport hazard class(es):**

Class: 8

Label(s): 8

**14.4 Packing group:** II**14.5 Environmental hazards:**

Environmentally hazardous: No

Marine pollutant: No

**14.6 Special precautions for user:** None known.**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** The product is not transported in bulk tankers.**Other relevant information:****Hazchem code:** 2X**IMO/IMDG**

EmS: F-A, S-B

The product has been classified, labelled and packaged in accordance with the requirements of ADG and the provisions of the IMDG Code. Transport regulations include special provisions for certain classes of dangerous goods packed in limited quantities.

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****Poison schedule**

Classified as a Schedule 5 (S5) Poison using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

**Classification**

Safework Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals.

**Inventory listing(s)**

AICS (Australian Inventory of Chemical Substances): All components are listed on AICS, or are exempt

**SECTION 16: Other information**

*The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract*

**SDS code:** MS31000702**Version:** 01.0**Revision:** 2015-10-08**Full text of the H phrases mentioned in section 3:**

- H226 - Flammable liquid and vapour.
- H302 - Harmful if swallowed.
- H314 - Causes severe skin burns and eye damage.
- H319 - Causes serious eye irritation.
- H331 - Toxic if inhaled.
- AUH071 - Corrosive to the respiratory tract.

**Additional information:**

**Acids:** When mixing acids with water (diluting), caution must be taken as heat will be generated which causes violent spattering. Always add a small volume of acid to a large volume of water, NEVER the reverse.

**Respirators:** In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

**Work practices - solvents:** Organic solvents may present both a health and flammability hazard. It is recommended that engineering controls should be adopted to reduce exposure where practicable (for example, if using indoors, ensure explosion proof extraction ventilation is available). Flammable or combustible liquids with explosive limits have the potential for ignition from static discharge. Refer to AS 1020 (The control of undesirable static electricity) and AS 1940 (The storage and handling of flammable and combustible liquids) for control procedures.

**Exposure standards - Time Weighted Average (TWA) or Workplace Exposure Standard (WES) (NZ):** Exposure standards are established on the premise of an 8 hour work period of normal intensity, under normal climatic conditions and where a 16 hour break between shifts exists to enable the body to eliminate absorbed contaminants. In the following circumstances, exposure standards must be reduced: strenuous work conditions; hot, humid climates; high altitude conditions; extended shifts (which increase the exposure period and shorten the period of recuperation).

**Personal protective equipment guidelines:** The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

**Health effects from exposure:** It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a Safety Data Sheet which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

**Abbreviations and acronyms:**

- ATE - Acute Toxicity Estimate
- LC50 - Lethal Concentration, 50% / Median Lethal Concentration
- LD50 - Lethal Dose, 50% / Median Lethal dose
- STOT-RE - Specific target organ toxicity (repeated exposure)
- STOT-SE - Specific target organ toxicity (single exposure)
- EC No. - European Community Number

**End of Safety Data Sheet**