

# SAFETY DATA SHEET



## AQUASOLVE

### APPLIED PRODUCTS AUSTRALIA PTY LTD

Catalogue number: AP125

Version No: 2.2

Date Issued: 01/01/2021

Safety Data Sheet according to WHS and ADG requirements

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

### Product Identifier

Product name	AQUASOLVE
Product code	AP125
Pack sizes	5L & 15L

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

Relevant identified uses	Non-caustic degreaser
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### Details of the manufacturer/importer

Registered company name	APPLIED PRODUCTS AUSTRALIA PTY LTD
Address	11 Gamma Close, Beresfield 2322 NSW Australia
Telephone	(02) 4966 5516
Website	www.actichem.com.au
Email	info@actichem.com.au

### Emergency telephone number

Association / Organisation	Poisons Information Centre
Emergency telephone numbers	13 11 26
Other emergency telephone numbers	02 4966 5516

## SECTION 2 HAZARDS IDENTIFICATION

### Classification of the substance or mixture

HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the Model WHS Regulations and the ADG Code.

Poisons Schedule	5
GHS Classification	Skin Corrosion/Irritation Category 2, Serious Eye Irritation Category 2
	<i>Classification drawn from HCIS and ECHA C&amp;L Inventory.</i>

### Label elements

Hazard pictogram	
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Signal word	WARNING
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### Hazard statement(s)

H315	Causes skin irritation
H319	Causes serious eye irritation

### Precautionary statement(s) Prevention

P264	Wash exposed skin thoroughly after handling
P280	Wear protective gloves and eye protection.

**Precautionary statement(s) Response**

P302+P362+P352 +P332+P313	IF ON SKIN Take off contaminated clothing and wash before reuse. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
P305+P351+P338+P337+P313	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists. Get medical advice/attention.

**Precautionary statement(s) Storage**

P405	Store locked up
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**Precautionary statement(s) Disposal**

P501	Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.
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**SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS****Substances**

See section below for composition of Mixtures

**Mixtures**

CAS No	%[weight]	Name
10213-79-3	<10	<u>Sodium metasilicate pentahydrate</u>
9016-45-9	<10	<u>Nonylphenol ethoxylate</u>
111-76-2	10-30	<u>Ethylene glycol monobutyl ether</u>
n/a	<10	<u>Proprietary chemical</u>

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

**SECTION 4 FIRST AID MEASURES****Description of first aid measures**

<b>Eye Contact</b>	<p>If this product comes in contact with the eyes:            Seek medical advice / attention without delay.            Immediately hold eyelids apart and flush the eye continuously with running water.            Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.            Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.            If necessary, transport to hospital or doctor without delay.            Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</p>
<b>Skin Contact</b>	<p>If skin or hair contact occurs:            Seek medical advice / attention without delay.            Immediately flush body and clothes with large amounts of water, using safety shower if available.            Quickly remove all contaminated clothing, including footwear.            Wash skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre.            If necessary, transport to hospital, or doctor.</p>
<b>Inhalation</b>	<p>If fumes or combustion products are inhaled remove from contaminated area.            Lay patient down. Keep warm and rested.            Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.            Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.            Transport to hospital, or doctor.</p>
<b>Ingestion</b>	<p>For advice, contact a Poisons Information Centre or a doctor at once.            Urgent hospital treatment is likely to be needed.  <b>If swallowed do NOT induce vomiting.</b>            If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.            Observe the patient carefully.            Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.            Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.            Transport to hospital or doctor without delay.</p>

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

Treat symptomatically.

**SECTION 5 FIREFIGHTING MEASURES****Extinguishing media**

<b>Extinguishing media</b>	The product contains a substantial proportion of water, therefore there are no restrictions on the type of extinguishing media which may be used. Choice of extinguishing media should take into account surrounding areas
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**Special hazards arising from the substrate or mixture**

<b>Fire incompatibility</b>	None known
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## Advice for firefighters

<b>Fire Fighting</b>	Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water courses. Use firefighting procedures suitable for surrounding area. <b>DO NOT</b> approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. Equipment should be thoroughly decontaminated after use.
<b>Fire/Explosion Hazard</b>	The material is not readily combustible under normal conditions. However, it will break down under fire conditions and the organic component may burn. Not considered to be a significant fire risk. Heat may cause expansion or decomposition with violent rupture of containers. May emit acid smoke. Decomposes on heating and produces toxic fumes of: carbon monoxide (CO), carbon dioxide (CO <sub>2</sub> ) and other pyrolysis products typical of burning organic material May emit corrosive fumes.
<b>HAZCHEM</b>	Not applicable

## SECTION 6 ACCIDENTAL RELEASE MEASURES

## Personal precautions, protective equipment and emergency procedures

<b>Minor Spills</b>	Moderate environmental hazard - contain spillage. Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb spill with sand, earth, inert material or vermiculite. Wipe up. Place in a suitable, labelled container for waste disposal.
<b>Major Spills</b>	Moderate environmental hazard - contain spillage. Wear eye protection and protective gloves. Prevent, by any means available, spillage from entering drains or water course. Stop leak if safe to do so. Absorb on sand, dirt, vermiculite or similar absorbent material. Place into labelled drums and dispose of according to local government regulations. Immediately notify emergency services (Police or Fire Brigade) if the spill is too large for you to safely and effectively handle.
<b>PPE</b>	Personal Protective Equipment advice is contained in Section 8 of the SDS

## SECTION 7 HANDLING AND STORAGE

## Precautions for safe handling

<b>Safe handling</b>	<b>DO NOT allow clothing wet with material to stay in contact with skin</b> Avoid all personal contact. Wear protective clothing when risk of exposure occurs. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to containers.
<b>Other information</b>	

## Conditions for safe storage, including any incompatibilities

<b>Suitable container</b>	Polyethylene or polypropylene container. Packing as recommended by manufacturer. Check all containers are clearly labelled and free from leaks.
<b>Storage incompatibility</b>	Incompatible with oxidisers, permanganates, peroxides, ammonium persulfate, bromine dioxide, nitrates, strong acids, sulfuric acid, nitric acid, perchloric acid.

## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

## Control parameters

## OCCUPATIONAL EXPOSURE LIMITS (OEL)

## INGREDIENT DATA


Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	ethylene glycol monobutyl ether	2-Butoxyethanol	20 ppm / 96.9 mg/m <sup>3</sup>	242 mg/m <sup>3</sup> / 50 ppm	Not Available	Not Available

## EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
sodium metasilicate, pentahydrate	Sodium metasilicate pentahydrate	45 mg/m <sup>3</sup>	45 mg/m <sup>3</sup>	170 mg/m <sup>3</sup>
nonylphenol, ethoxylated	Glycols, polyethylene, mono(p-nonylphenol) ether; (Nonoxynol-9)	9.9 mg/m <sup>3</sup>	110 mg/m <sup>3</sup>	300 mg/m <sup>3</sup>
ethylene glycol monobutyl ether	Butoxyethanol, 2-; (Glycol ether EB)	60ppm	120ppm	700ppm

Ingredient	Original IDLH	Revised IDLH
sodium metasilicate, pentahydrate	Not Available	Not Available
nonylphenol, ethoxylated	Not Available	Not Available
ethylene glycol monobutyl ether	700ppm	Not Available
proprietary chemical	Not Available	Not Available

**Exposure controls**

<b>Appropriate engineering controls</b>	Maintain adequate ventilation at all times. In most circumstances natural ventilation systems are adequate. If ventilation is poor, then the use of a local exhaust ventilation system is recommended.
<b>Personal protection</b>	
<b>Eye and face protection</b>	Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]
<b>Skin protection</b>	See Hand protection below
<b>Hands/feet protection</b>	Wear chemical protective gloves. Butyl or neoprene are recommended for this application.
<b>Body protection</b>	See Other protection below
<b>Other protection</b>	Overalls. P.V.C. apron. Barrier cream. Skin cleansing cream. Eye wash unit.
<b>Thermal hazards</b>	Not Available

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties**

<b>Appearance</b>	Clear straw coloured liquid		
<b>Physical state</b>	Liquid	<b>Relative density (Water = 1)</b>	1.067
<b>Odour</b>	Not Available	<b>Partition coefficient n-octanol / water</b>	Not Available
<b>Odour threshold</b>	Not Available	<b>Auto-ignition temperature(°C)</b>	Not Available
<b>pH (as supplied)</b>	12.9	<b>Decomposition temperature</b>	Not Available
<b>Melting point / freezing point (°C)</b>	Not Available	<b>Viscosity (cSt)</b>	Not Available
<b>Initial boiling point and boiling range (°C)</b>	Not Available	<b>Molecular weight (g/mol)</b>	Not Available
<b>Flash point (°C)</b>	Not Applicable	<b>Taste</b>	Not Available
<b>Evaporation rate</b>	Not Available	<b>Explosive properties</b>	Not Available
<b>Flammability</b>	Not Applicable	<b>Oxidising properties</b>	Not Available
<b>Upper Explosive Limit (%)</b>	Not Applicable	<b>Surface Tension (dyn/cm or mN/m)</b>	Not Available
<b>Lower Explosive Limit(%)</b>	Not Applicable	<b>Volatile Component (%vol)</b>	Not Available
<b>Vapour pressure (kPa)</b>	Not Available	<b>Gas group</b>	Not Available
<b>Solubility in water (g/L)</b>	Miscible	<b>pH as a solution (1%)</b>	Not Available
<b>Vapour density (Air = 1)</b>	Not Available	<b>VOC g/L</b>	Not Available

**SECTION 10 STABILITY AND REACTIVITY**

<b>Reactivity</b>	See section 7
<b>Chemical stability</b>	Unstable in the presence of incompatible materials.Product is considered stable. Hazardous polymerisation will not occur.
<b>Possibility of hazardous reactions</b>	See section 7
<b>Conditions to avoid</b>	See section 7
<b>Incompatible materials</b>	See section 7
<b>Hazardous decomposition products</b>	See section 5

## SECTION 11 TOXICOLOGICAL INFORMATION

## Information on toxicological effects

<b>Inhaled</b>	Not normally a hazard due to non-volatile nature of product The material has <b>NOT</b> been classified by EC Directives or other classification systems as 'harmful by inhalation' nor has it been designated as 'irritating to the respiratory system'. This is because of the lack of corroborating animal or human evidence.
<b>Ingestion</b>	The material can produce chemical burns within the oral cavity and gastrointestinal tract following ingestion.
<b>Skin Contact</b>	The material can produce chemical burns following direct contact with the skin. Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected. Ethylene glycol monobutyl ether penetrates the skin easily and will cause more harm on skin contact than through inhalation.
<b>Eye</b>	If applied to the eyes, this material causes severe eye damage. Vapours or mists may be extremely irritating.
<b>Chronic</b>	Repeated or prolonged exposure to corrosives may result in the erosion of teeth, inflammatory and ulcerative changes in the mouth and necrosis (rarely) of the jaw. Bronchial irritation, with cough, and frequent attacks of bronchial pneumonia may ensue. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

## Toxicological effects of ingredients

<b>Acute toxicity</b>	sodium metasilicate, pentahydrate	LD50 Oral (rat) 1600-3200 mg/kg
	nonylphenol, ethoxylated	Oral LD50 Rat >=500 mg/kg
	ethylene glycol monobutyl ether	Oral LD50 (Guinea pig) 1414 mg/kg Dermal LD50 (Guinea pig) >2000 mg/kg
	proprietary chemical	LD50 Oral (rat) 2292 mg/kg
<b>Skin corrosion/irritation</b>	sodium metasilicate, pentahydrate	(human) 250 mg/24h severe
	nonylphenol, ethoxylated	Causes mild skin irritation (Rabbit)
	ethylene glycol monobutyl ether	Causes skin irritation
	proprietary chemical	No data available
<b>Eye damage/irritation</b>	sodium metasilicate, pentahydrate	Corrosive. Causes eye burns
	nonylphenol, ethoxylated	Causes severe eye irritation (Rabbit)
	ethylene glycol monobutyl ether	Causes serious eye irritation
	proprietary chemical	Eye irritant (OECD 437)
<b>Respiratory/skin sensitization</b>	sodium metasilicate, pentahydrate	No data available
	nonylphenol, ethoxylated	Not considered to have skin sensitization properties
	ethylene glycol monobutyl ether	No data available
	proprietary chemical	No data available
<b>Germ cell mutagenicity</b>	sodium metasilicate, pentahydrate	No data available
	nonylphenol, ethoxylated	Not considered to be genotoxic
	ethylene glycol monobutyl ether	Not classified
	proprietary chemical	No data available
<b>Carcinogenicity</b>	sodium metasilicate, pentahydrate	No data available
	nonylphenol, ethoxylated	Not considered to be carcinogenic
	ethylene glycol monobutyl ether	Not classified
	proprietary chemical	No components are listed as carcinogens by IARC, ACGIH, OSHA or NTP above the threshold of 0.1%
<b>Reproductive toxicity</b>	sodium metasilicate, pentahydrate	No data available
	nonylphenol, ethoxylated	While nonyl phenol ethoxylates are toxic to reproduction the effects seem to be specific to direct spermicidal use, which is not relevant to the industrial use of the chemical - NICNAS
	ethylene glycol monobutyl ether	Not classified
	proprietary chemical	No data available
<b>STOT (single exposure)</b>	sodium metasilicate, pentahydrate	Dust corrosive to respiratory tract
	nonylphenol, ethoxylated	Inhalation of mist /vapours may cause respiratory tract irritation
	ethylene glycol monobutyl ether	High concentrations may cause central nervous system depression
	proprietary chemical	No data available
<b>STOT (repeated exposure)</b>	sodium metasilicate, pentahydrate	No data available
	nonylphenol, ethoxylated	Not considered to damage health following repeated exposure
	ethylene glycol monobutyl ether	Data not relevant to humans
	proprietary chemical	No data available
<b>Aspiration toxicity</b>	sodium metasilicate, pentahydrate	No data available
	nonylphenol, ethoxylated	No data available
	ethylene glycol monobutyl ether	Not classified
	proprietary chemical	No data available

**SECTION 12 ECOLOGICAL INFORMATION****Toxicity**

	Endpoint	Test Duration (hr)	Species	Value
<b>Sodium metasilicate pentahydrate</b>	LC50	96	Fish	2-320 mg/L
	EC50	48	Crustacea	1-700mg/L
	EC50	72	Algae or other aquatic plants	207mg/L
	EC100	48	Crustacea	10-mg/L
<b>Nonylphenol, ethoxylated</b>	LC50	48	Crustacea	1.43mg/L
	EC50	72	Algae or other aquatic plants	2.5mg/L
<b>Ethylene glycol monobutyl ether</b>	LC50	96	Fish	1-250mg/L
	EC50	48	Crustacea	>1-mg/L
	EC50	96	Algae or other aquatic plants	>1-mg/L
	NOEC	24	Crustacea	>1-mg/L

Data extracted from Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

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

Based on available evidence concerning either toxicity, persistence, potential to accumulate and/or observed environmental fate and behaviour, the material may present a danger, immediate or long-term and/or delayed, to the structure and/or functioning of natural ecosystems.

**Persistence and degradability**

Ingredient	Persistence: Water/Soil	Persistence: Air
nonylphenol, ethoxylated	LOW	LOW
ethylene glycol monobutyl ether	LOW (Half-life = 56 days)	LOW (Half-life = 56 days)

**Bio accumulative potential**

Ingredient	Bioaccumulation
nonylphenol, ethoxylated	LOW (BCF = 16)
ethylene glycol monobutyl ether	LOW (BCF = 2.51)

**Mobility in soil**

Ingredient	Mobility
nonylphenol, ethoxylated	LOW (KOC = 940)
ethylene glycol monobutyl ether	HIGH (KOC = 1)

**SECTION 13 DISPOSAL CONSIDERATIONS****Waste treatment methods**

Product / Packaging disposal	
	Recycle containers whenever possible. Product residues and containers should be disposed of in accordance with local government regulations

**SECTION 14 TRANSPORT INFORMATION**

Labels Required: None

Marine Pollutant	
	NO
HAZCHEM	
	Not Applicable

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

**SECTION 15 REGULATORY INFORMATION****Safety, health and environmental regulations / legislation specific for the substance or mixture****SODIUM METASILICATE, PENTAHYDRATE IS FOUND ON THE FOLLOWING REGULATORY LISTS**

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australian Inventory of Industrial Chemicals (AIIC)

**NONYLPHENOL, ETHOXYLATED IS FOUND ON THE FOLLOWING REGULATORY LISTS**

Australian Inventory of Industrial Chemicals (AIIC)

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

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

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

**ETHYLENE GLYCOL MONOBUTYL ETHER IS FOUND ON THE FOLLOWING REGULATORY LISTS**

Australian Inventory of Industrial Chemicals (AIIC)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

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

**SECTION 16 OTHER INFORMATION****Revision Schedule**

<b>Revision Date</b>	01/01/2021
<b>Initial Date</b>	15/08/2015

**SDS Version Summary**

<b>Version</b>	<b>Issue Date</b>	<b>Sections Updated</b>
2.1	12/10/2020	Sections 2,3,8,11,12,15,16 have been updated or corrected
2.2	01/01/2021	Section 2 has been corrected

**Other information****Definitions and abbreviations**

PC-TWA;	Permissible Concentration-Time Weighted Average
PC-STEL;	Permissible Concentration-Short Term Exposure Limit
IARC:	International Agency for Research on Cancer
ACGIH:	American Conference of Government Industrial Hygienists
STEL:	Short Term Exposure Limit
TEEL:	Temporary Emergency Exposure Limit
IDLH:	Immediate Danger to Life or Health Concentrations
OSF:	Odour Safety Factor
NOAEL:	No Observed Effects Level
TLV:	Threshold Limit Value
LOD:	Limit Of Detection
OTV:	Odour Threshold Value
BCF:	Bio Concentration Factors
BEI:	Biological Exposure Index

Classification of the preparation and its individual components has drawn on official and authoritative sources such as the ECHA C&L Chemical Inventory, HSNO (CCID) New Zealand, AICIS and HCIS Australia

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**End of SDS**