

SAFETY DATA SHEET - AQUA NO RUST

Product name : **Aqua No Rust**

Section: 1. PRODUCT AND COMPANY IDENTIFICATION

Other means of identification : VR20
A4320

Recommended use : Temporary rust preventative

Manufacturer : ITW Polymers and Fluids
100 Hassall Street, Wetherill Park
NSW 2164
Australia
Ph +61 2 9757 8800
Website www.itwvf.com.au

Emergency telephone number : 1800 039 008, +61 3 9573 3112

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Section: 2. HAZARDS IDENTIFICATION

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

GHS Classification

Poisons Schedule	S5
Classification [1]	Reproductive Toxicity Category 1B
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HSIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

GHS Label element

Product AS SOLD

Hazard pictograms :



Signal Word : **Danger**

Hazard Statements **H360:** May damage fertility or the unborn child.

Precautionary statement(s) Prevention

P201	Obtain special instructions before use.
P281	Use personal protective equipment as required.

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Precautionary statement(s) Response

P308+P313 | IF exposed or concerned: Get medical advice/attention.

Precautionary statement(s) Storage

P405 | Store locked up.

Precautionary statement(s) Disposal

P501 | Dispose of contents/container in accordance with local regulations.

Product AS SOLD

Other hazards : None known.

Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
68516-78-9	10-40	<u>boric acid compounded with triethanolamine salt</u>
1303-96-4	<10	<u>sodium borate, decahydrate</u>
	>60	Ingredients determined not to be hazardous
		including
7732-18-5		<u>water</u>

In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

If swallowed : Contact the Poison's Information Centre (eg. Australia 13 1126; New Zealand 0800 764 766). Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

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Section: 4. FIRST AID MEASURES

Description of first aid measures

General	
Eye Contact	If this product comes in contact with eyes: Wash out immediately with water. If irritation continues, seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
Inhalation	If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.
Ingestion	If swallowed do NOT induce vomiting. 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. Seek medical advice.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Section: 5. FIREFIGHTING MEASURES

Extinguishing media

	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. Though the material is non-combustible, evaporation of water from the mixture, caused by the heat of nearby fire, may produce floating layers of combustible substances. In such an event consider: foam.
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Special hazards arising from the substrate or mixture

Fire Incompatibility	None known.
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Advice for firefighters

Fire Fighting	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.
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Fire/Explosion Hazard	<p>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.</p> <p>Heat may cause expansion or decomposition with violent rupture of containers.</p> <p>Decomposes on heating and produces toxic fumes of: carbon dioxide (CO₂) nitrogen oxides (NO_x) other pyrolysis products typical of burning organic material.</p>
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Section: 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Minor Spills	<p>Clean up all spills immediately.</p> <p>Avoid breathing vapours and contact with skin and eyes.</p> <p>Control personal contact with the substance, by using protective equipment. Contain and absorb spill with sand, earth, inert material or vermiculite.</p>
Major Spills	<p>Minor hazard.</p> <p>Clear area of personnel.</p> <p>Alert Fire Brigade and tell them location and nature of hazard.</p> <p>Control personal contact with the substance, by using protective equipment as required.</p>
	<p>Personal Protective Equipment advice is contained in Section 8 of the SDS.</p>

Section: 7. HANDLING AND STORAGE

Precautions for safe handling

Safe handling	<p>DO NOT allow clothing wet with material to stay in contact with skin Limit all unnecessary personal contact.</p> <p>Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area.</p> <p>When handling DO NOT eat, drink or smoke.</p>
Other information	<p>Store in original containers.</p> <p>Keep containers securely sealed.</p> <p>Store in a cool, dry, well-ventilated area.</p> <p>Store away from incompatible materials and foodstuff containers.</p>

Conditions for safe storage, including any incompatibilities

Suitable Container	<ul style="list-style-type: none"> • Lined metal can • Plastic pail • Polyliner drum • Packing as recommended by manufacturer
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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	sodium borate, decahydrate	Borates, tetra, sodium salts (decahydrate)	5 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	sodium borate, decahydrate	Borates, tetra, sodium salts (anhydrous)	1 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	sodium borate, decahydrate	Borates, tetra, sodium salts (pentahydrate)	1 mg/m3	Not Available	Not Available	Not Available

EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
sodium borate, decahydrate	Sodium borate decahydrate (Borax)	6 mg/m3	190 mg/m3	1,100 mg/m3
sodium borate, decahydrate	Sodium borate; (Disodium tetraborate)	6 mg/m3	88 mg/m3	530 mg/m3

Ingredient	Original IDLH	Revised IDLH
boric acid compounded with triethanolamine salt	Not Available	Not Available
sodium borate, decahydrate	Not Available	Not Available
water	Not Available	Not Available

Exposure controls

Appropriate engineering controls	General exhaust is adequate under normal operating conditions.
Personal protection	
Eye and face protection	Safety glasses with side shields; or as required, Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience.
Skin protection	See Hand protection below

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Hands/feet protection	Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application. The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice. Personal hygiene is a key element of effective hand care.
Body protection	See Other protection below
Other protection	Overalls. P.V.C. apron. Barrier cream.
Thermal hazards	Not Available

Respiratory Protection

Type A Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance | Thin colourless liquid; mixes with water.

Physical state	Liquid	Relative density (Water = 1)	1.12
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable
pH (as supplied)	8.5	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	2.4 @ 20C	Gas group	Not Available

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Solubility in water (g/L)	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Applicable

Section: 10. STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	Product is considered stable and hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

Section: 11. TOXICOLOGICAL INFORMATION

Inhaled	There is some evidence to suggest that the material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage.
Ingestion	The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.
Skin Contact	There is some evidence to suggest that this material can cause inflammation of the skin on contact in some persons. Irritation and skin reactions are possible with sensitive skin 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.
Eye	Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).
Chronic	Ample evidence exists from experimentation that reduced human fertility is directly caused by exposure to the material. Ample evidence exists, from results in experimentation, that developmental disorders are directly caused by human exposure to the material. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure

APPLIED 4320	TOXICITY	IRRITATION
boric acid compounded with triethanolamine salt	TOXICITY	IRRITATION
sodium borate, decahydrate	TOXICITY	IRRITATION
water	TOXICITY	IRRITATION

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Legend:	1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances		
SODIUM BORATE, DECAHYDRATE	Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia. Oral (rat) LD50: 4500-5000 mg/kg Eyes (rabbit) (-) Mild [Orica BORAX-Europe] Reproductive effector in rats Mutagenic towards bacteria		
BORIC ACID COMPOUNDED WITH TRIETHANOLAMINE SALT & WATER	No significant acute toxicological data identified in literature search.		
Acute Toxicity	Carcinogenicity		⊖
Skin Irritation/Corrosion	Reproductivity		✔
Serious Eye Damage/Irritation	STOT - Single Exposure		⊖
Respiratory or Skin sensitisation	STOT - Repeated Exposure		⊖
Mutagenicity	Aspiration Hazard		⊖

Legend: ✔ – Data available to make classification
✘ – Data available but does not fill the criteria for classification
⊖ – Data Not Available to make classification

Section: 12. ECOLOGICAL INFORMATION

Toxicity NOT AVAILABLE

Ingredient	Endpoint	Test Duration (hr)	Effect	Value	Species	BCF
APPLIED 4320	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
boric acid compounded with triethanolamine salt	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
sodium borate, decahydrate	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
water	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
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water	LOW	LOW
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Bio accumulative potential

Ingredient	Bioaccumulation
Water	LOW (KOC = 14.3)

Mobility in soil

Ingredient	Mobility
water	LOW (KOC = 14.3)

Section: 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Product / Packaging disposal	Recycle wherever possible or consult manufacturer for recycling options. Consult State Land Waste Management Authority for disposal. Bury residue in an authorised landfill. Recycle containers if possible, or dispose of in an authorised landfill.
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Section: 14. TRANSPORT INFORMATION

Labels Required

Marine Pollutant	NO Not Applicable
HAZCHEM	Not Applicable

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

Air transport (ICAO-IATA / DGR)

: NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee)

: NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

Source	Ingredient	Pollution Category
	APPLIED 4320	

Section: 15. REGULATORY INFORMATION

Safety, health and environmental regulations / legislation specific for the substance or mixture

BORIC ACID COMPOUNDED WITH TRIETHANOLAMINE SALT (68516-78-9) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Not Applicable

SODIUM BORATE, DECAHYDRATE (1303-96-4) IS FOUND ON THE FOLLOWING REGULATORY LISTS

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Australia Exposure Standards Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australia Inventory of Chemical Substances (AICS)

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix E (Part 2)

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 4

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

WATER(7732-18-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

National Inventory	Status
Australia - AICS	N (boric acid compounded with triethanolamine salt; Ingredients determined not to be hazardous) Non-disclosed ingredients
Canada - DSL	N (boric acid compounded with triethanolamine salt; Ingredients determined not to be hazardous) Non-disclosed ingredients
Canada - NDSL	N (sodium borate, decahydrate; water; Ingredients determined not to be hazardous) Non-disclosed ingredients
China - IECSC	N (boric acid compounded with triethanolamine salt; Ingredients determined not to be hazardous) Non-disclosed ingredients
Europe - EINEC / ELINCS / NLP	N (Ingredients determined not to be hazardous) Non-disclosed ingredients
Japan - ENCS	N (Ingredients determined not to be hazardous) Non-disclosed ingredients
Korea - KECI	N (boric acid compounded with triethanolamine salt; Ingredients determined not to be hazardous) Non-disclosed ingredients
New Zealand - NZIoC	N (Ingredients determined not to be hazardous) Non-disclosed ingredients
Philippines - PICCS	N (Ingredients determined not to be hazardous) Non-disclosed ingredients
USA - TSCA	N (Ingredients determined not to be hazardous) Non-disclosed ingredients
<i>Legend:</i>	<i>Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)</i>

Section: 16. OTHER INFORMATION

Issuing date : **24.06.19**
version : **1.0**
Prepared by : **Dana-Ridge**

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