TB-25 WELD CLEANING FLUID
FOR STAINLESS STEEL

TIG Brush®

SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

329920/0012
Reinigungsflüssigkeit TIG – B 1 – L Flasche

(ST) S/N:

1.1 Product identifier

Product name	**TB-25 WELD CLEANING FLUID FOR STAINLESS STEEL**
Synonym(s)	WELD CLEANING FLUID FOR STAINLESS STEEL

1.2 Uses and uses advised against

Use(s)	TIG BRUSH WELD CLEANING SOLUTION
Uses advised against	NONE KNOWN

1.3 Details of the supplier of the safety data sheet

Supplier name	**ENSITECH PTY LTD**
Address	1/144 Old Bathurst Road, Emu Plains, NSW, 2750, AUSTRALIA
Telephone	+61 2 4735 7700
Fax	+61 2 4735 7744
Email	safety@ensitech.com.au

1.4 Emergency telephone number(s)

Emergency	+61 447 775 762

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

HAZARDOUS ACCORDING TO WORKSAFE AUSTRALIA CRITERIA

GHS CLASSIFICATIONS:
Skin Corrosion/Irritation: Category 1B

2.2 Label elements

SIGNAL WORD: Danger

HAZARD STATEMENTS
Causes severe skin burns and eye damage.

PREVENTION STATEMENTS
Do not breathe mist/vapours/spray.
Wash thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.

RESPONSE STATEMENTS
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER or doctor/physician.
Specific treatment is advised - see first aid instructions.
Wash contaminated clothing before reuse.

2.3 Other hazards

The substance does not meet the criteria for a PBT or vPvB substance.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

3.1 Substances / Mixtures

Ingredient	Identification	Classification		Content
		R/S	GHS	
PHOSPHORIC ACID	CAS: 7664-38-2 EC: 231-633-2	C; R34	Skin Corr. 1B, H314	45-55%
WATER	CAS: 7732-18-5 EC: 231-791-2			45-55%
PROPRIETARY INGREDIENTS				<5%

4. FIRST AID MEASURES

4.1 Description of first aid measures

Eye If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.

Inhalation If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.

Skin If skin or hair contact occurs, wash with soap and water and see doctor if irritation persists. For chronic exposure remove clothes, have a shower and call a doctor.

Ingestion For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If swallowed, do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Acute: Causes severe skin burns and eye damage. Delayed: No information available.

4.3 Immediate medical attention and special treatment needed

Treat symptomatically.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Non flammable. May evolve toxic gases (phosphorus oxides) when heated to decomposition. Contact with most metals may evolve flammable hydrogen gas.

5.3 Advice for firefighters

Treat as per requirements for Surrounding Fires: Evacuate area and contact emergency services. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

If spilt (bulk), use personal protective equipment. CAUTION: Spill site may be slippery.

6.2 Environmental precautions

Prevent product from entering drains and waterways.

6.3 Methods of cleaning up

Contain spillage, then cover / absorb spill with sodium bicarbonate or 50-50 mixture of sodium carbonate and calcium hydroxide. Collect for complete neutralisation and appropriate disposal.

6.4 Reference to other sections

See Section 8.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas. This solution should not be used in a spraying application.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well-ventilated area, removed from oxidising agents, alkalis, active metals and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Check regularly for leaks or spills. Large storage areas should have appropriate ventilation systems.

7.3 Specific end use(s)

None.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Exposure Standards

Ingredient	Reference	TWA		STEL	
Phosphoric acid	TWA (SWA)	--	1 mg/m3	--	--

8.2 Exposure controls

Engineering controls Avoid inhalation of vapours. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended.

PPE

Eye / Face Splash-proof goggles.

Hand PVC or rubber gloves.

Body Coveralls.

Respiratory Where an inhalation risk exists, wear a Type B (Inorganic gases and vapours) respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	CLEAR LIGHT RED LIQUID
Odour	SWEET ODOUR
Odour threshold	NOT AVAILABLE
pH	1 to 3
Melting point	< 0°C
Freezing point	NOT AVAILABLE
Initial boiling point	145°C
Flash point	NOT AVAILABLE
Evaporation rate	NOT AVAILABLE
Flammability	NOT AVAILABLE
Upper explosion limit	NOT AVAILABLE
Lower explosion limit	NOT AVAILABLE
Vapour pressure	18 mm Hg @ 20°C

Vapour density	NOT AVAILABLE
Relative density	1.36
Solubility (water)	SOLUBLE
Partition coefficient	NOT AVAILABLE
Auto-ignition temperature	NOT AVAILABLE
Decomposition temperature	NOT AVAILABLE
Viscosity	NOT AVAILABLE
Explosive properties	NOT AVAILABLE
Oxidising properties	NOT AVAILABLE

9.2 Other information

None

10. STABILITY AND REACTIVITY

10.1 Reactivity

Contact with most metals may evolve flammable hydrogen gas.

10.2 Chemical stability

Stable under recommended conditions of storage.

10.3 Possibility of hazardous reactions

Polymerization will not occur.

10.4 Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources.

10.5 Incompatible materials

Incompatible with oxidising agents (eg. hypochlorites), alkalis (eg. hydroxides) and metals.

10.6 Hazardous decomposition products

May evolve toxic phosphorus oxides when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity	The following toxicity values are based on Phosphoric Acid: LD50 (Ingestion): 1530 mg/kg (estimated) Inhalation Toxicity: No reliable data available. Dermal Toxicity: 2740 mg/kg (rabbit)
Skin	Causes burns. Contact may result in irritation, redness, pain, rash, dermatitis and possible burns. Prolonged or repeated contact may result in ulceration.
Eye	Causes burns. Contact may result in irritation, pain, redness, conjuctivitis and corneal burns with possible permanent damage.
Sensitization	The available data is not considered sufficient for classification as a skin or respiratory sensitizer.
Mutagenicity	Insufficient data for classification as a mutagen.
Carcinogenicity	Insufficient data for classification as a carcinogen.
Reproductive	Insufficient data for classification as a reproductive toxin.
STOT – single exposure	Over exposure may result in irritation of the nose and throat, coughing and bronchitis. High level exposure may result in ulceration of the respiratory tract, lung tissue damage, chemical pneumonitis and pulmonary oedema.
STOT – repeated exposure	No relevant or reliable studies were identified.
Aspiration	Not an aspiration hazard.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Phosphoric acid is hazardous to aquatic life at high concentrations.

12.2 Persistence and degradability

While acidity may be reduced by natural water minerals, the phosphate may persist indefinitely.

12.3 Bioaccumulative potential

Not expected to bioaccumulate.

12.4 Mobility in soil

When spilled onto soil, it will permeate downward, and may dissolve some of the soil matter, especially carbonate-based materials.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste disposal	Wearing the protective equipment detailed above, neutralise to pH 6-8 by SLOW addition to a saturated sodium bicarbonate solution or similar basic solution. Dilute with excess water and flush to drain. Waste disposal should only be undertaken in a well-ventilated area.
Legislation	Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

	LAND TRANSPORT	SEA TRANSPORT	AIR TRANSPORT
14.1 UN number	1805	1805	1805
14.2 UN proper shipping name	Phosphoric Acid	Phosphoric Acid	Phosphoric Acid
14.3 Transport hazard classes	8	8	8
14.4 Packing group	III	III	III
14.5 Environmental hazards	None Allocated	None Allocated	None Allocated
14.6 Special precautions for user	None Allocated	None Allocated	None Allocated

15. REGULATORY INFORMATION

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

LABELLING ACCORDING TO 67/548/EEC DIRECTIVE

Poison Schedule	6: Poison – Substances with a moderate potential for causing harm, the extent of which can be reduced through the use of distinctive packaging with strong warnings and safety directions on the label.
Classification	C; Corrosive
Risk Phrases	R34: Causes burns.
Safety Phrases	S1/2: Keep locked up and out of the reach of children. S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Product name	**TB-25 WELD CLEANING FLUID FOR STAINLESS STEEL**
nventory listing(s)	**AUSTRALIA: AICS (Australian Inventory of Chemical Substances)** All components are listed on AICS, or exempt.

16. OTHER INFORMATION

Abbreviations

ACGIH - American Conference of Industrial Hygienists.
ADG - Australian Dangerous Goods.
BEI - Biological Exposure Indice(s).
CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds.
CNS - Central Nervous System.
EC No - European Community Number.
HSNO - Hazardous Substances and New Organisms.
IARC - International Agency for Research on Cancer.
mg/m3 - Milligrams per Cubic Metre.
NOS - Not Otherwise Specified.
pH - relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).
ppm - Parts Per Million.
RTECS - Registry of Toxic Effects of Chemical Substances.
STEL - Short Term Exposure Limit.
SWA - Safe Work Australia.
TWA - Time Weighted Average.

Report status

This document has been compiled by RMT on behalf of the manufacturer of the product and serves as the manufacturer's Safety Data Sheet ('SDS').
It is based on information concerning the product which has been provided to RMT by the manufacturer or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer.
While RMT has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

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Revision History

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Description: Modified product name.

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End of Report