

Safety Data Sheet

Section 1 – IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: TigArc Weld Cleaning Fluid

Uses: Weld cleaner liquid.

Company: Global Welding Supplies

Address: Patiki Road, Avondale
Auckland, 1026

Telephone: +64 9 826 9888

Email: sales@gwsnz.co.nz

National Poison Centre: 0800 764 766 (0800 POISON) 24 hour

Section 2 – HAZARDS IDENTIFICATION

Classified as hazardous according to the *Hazardous Substance (Minimum Degrees of Hazard) Notice 2017*.

EPA Classifications:

6.1D (oral) Acutely toxic
6.1E (dermal) Acutely toxic
8.1A Corrosive to metals
8.2C Corrosive to dermal tissue
8.3A Corrosive to ocular tissue
9.1D (other) Slightly harmful in the aquatic environment
9.3C Harmful to terrestrial vertebrates

GHS Classification:

Acute toxicity: Oral Category 4
Acute toxicity: Skin Category 5
Corrosive to metals Category 1
Skin corrosion/irritation Category 1C
Serious eye damage/eye irritation Category 1
Aquatic toxicity (Acute) Category 3



Signal Words: Danger

Hazard Statement Codes

H290 May be corrosive to metals.
H302 Harmful if swallowed.
H313 May be harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H433 Harmful to terrestrial vertebrates.

Precautionary Statements

P102 Keep out of reach of children.
P103 Read label before use.
P260 Do not breathe spray.
P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/protective clothing and eye protection.

Section 3 – COMPOSITION INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS No.	Proportion, % m/m
Phosphoric Acid	7664-38-2	30 – 60%
Non-ionic Surfactant (Proprietary)	N/A	< 10
Other ingredients determined to not be hazardous	-	to 100%

Section 4 – FIRST AID MEASURES

If medical advice is needed, have product container or label at hand.

If exposed or if you feel unwell: Call a POISON CENTRE or doctor.

Eye contact:	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.
Ingestion:	IF SWALLOWED: Immediately call a POISON CENTRE or doctor. Rinse mouth. Do NOT induce vomiting. Do not give activated charcoal. Where there is risk of vomiting, lean person forward or place on left side to avoid aspiration of product into lungs. Obtain immediate medical attention.
Skin contact:	IF ON SKIN: (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/ attention. Wash contaminated clothing before reuse.
Inhalation:	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTRE or doctor.
Notes to physician:	Treat symptomatically and supportively. Gastric lavage is not recommended. Risk of aspiration into lungs. Do not give chemical antidote. Potential for chemical pneumonitis.

Most important symptoms and effects, both acute and delayed

Symptoms after inhalation:	Coughing. Dry/sore throat. Irritation of the respiratory tract. Irritation of the nasal mucous membranes. Following symptoms may appear later: Respiratory difficulties. Risk of lung oedema.
Symptoms after skin contact:	Caustic burns/corrosion of the skin.
Symptoms after eye contact:	Corrosion of the eye tissue.
Symptoms after ingestion:	Burns to the gastric/intestinal mucosa. Nausea. Abdominal pain. Blood in vomit. After absorption of large quantities: Shock.
Chronic symptoms:	On continuous/repeated exposure/contact: Dry skin. Red skin.

Section 5 – FIRE-FIGHTING MEASURES

Specific hazards:	Product is neither flammable nor combustible. Where possible remove containers from the path of a fire, or cool with water spray.
Reactivity:	Reacts exothermically with water (moisture). Decomposes on exposure to temperature rise with release of toxic and corrosive gases/vapours (phosphorus oxides). Reacts on exposure to temperature rise with some metals and may release highly flammable gases/vapours (hydrogen). Violent exothermic reaction with some bases. Violent to explosive reaction with many compounds e.g. with strong oxidizers and with strong reducers.
Further advice:	On burning may emit toxic fumes including those of phosphorus oxides, carbon monoxide and carbon dioxide. Fire fighters to wear self-contained breathing apparatus if risk of exposure to products of combustion. Use water spray to keep fire-exposed containers cool. No naked flames. Exposure to fire/heat: keep upwind. Consider evacuation. Seal off low-lying areas. Large spills/in confined spaces: consider evacuation. In case of hazardous reactions: keep upwind. In case of reactivity hazard: consider evacuation.
Extinguishing media:	Use dry chemical, carbon dioxide, water spray, fog, or foam. Do not discharge extinguishing waters into the aquatic environment.
Hazchem Code:	2X

Section 6 – ACCIDENTAL RELEASE MEASURES

Environmental Precautions Collect spillage. Prevent spillage from entering drains or water courses. If material enters drains, advise emergency services.

Methods for Cleaning Up: Spills - soak up with sand or other suitable absorbent. Collect into suitable containers for disposal. Wash the contaminated area with excess water. Try not to release washings to the environment. Wash clothing and equipment after handling.

Section 7 – HANDLING AND STORAGE

Handling Precautions: Read product label before use. Avoid release to the environment. Remove contaminated clothing immediately. Clean contaminated clothing. Keep the substance free from contamination. Do not discharge the waste into the drain. Keep away from naked flames/heat. Observe strict hygiene. Keep container tightly closed. Carry out operations in the open/under local exhaust/ventilation or with respiratory protection.

Storage: Store locked up in a well ventilated, cool, dry place. Keep only in the original container away from incompatible materials. Keep container closed when not in use.

Incompatible products: Strong bases. Strong acids. Metals.

Incompatible materials: Sources of ignition. Direct sunlight.

Section 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits: No value assigned for this specific material. However, exposure standards for constituents;

Material	TWA, mg/m ³	STEL, mg/m ³
Phosphoric Acid	1	-

Additional Information: Wash hands before eating, drinking and smoking. Wash exposed skin thoroughly after handling. Wash contaminated clothing before reuse.

Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide local exhaust or general room ventilation. Only use with adequate ventilation.

Protective Equipment: Wear protective gloves - butyl rubber, natural rubber, neoprene, nitrile rubber, polyethylene, viton or PVC. Face shield for eye protection. Corrosion-proof clothing. If TWA is exceeded, wear an approved respirator.

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Almost colourless liquid with characteristic acidic odour.

pH: 1.5

Vapour Density: > 1 (Air =1)

Vapour Pressure, kPa: Not applicable.

Boiling Point, °C: Not determined.

Melting Point, °C: Not applicable.

Specific Gravity: About 1.3

Flash Point, °C: Not applicable.

Explosion Limit, % v/v: LEL N/A % UEL N/A %

Autoignition Temp, °C: Not applicable.

Solubility: Soluble in water.

Section 10 – STABILITY AND REACTIVITY

Reactivity: Reacts exothermically with water (moisture). Decomposes on exposure to temperature rise with release of toxic and corrosive gases or vapours (phosphorus oxides). Reacts on exposure to temperature rise with some metals to give release of highly flammable gases or vapours (hydrogen). Violent exothermic reaction with some bases. Violent to explosive reaction with many compounds e.g. with strong oxidizers and with strong reducers.

Stability: Stable under normal conditions of use. Avoid oxidisers and reducers – strong acids or strong bases. Avoid elevated temperatures.

Section 11 – TOXICOLOGICAL INFORMATION

Basis for Assessment: Information given is based on components.

Acute Oral Toxicity: Not classified.

Acute Dermal Toxicity: Not classified.

Skin Corrosion/Irritation: Causes severe skin burns and eye damage May cause skin irritation. Prolonged/repeated contact may lead to dermatitis.

Eye Corrosion/ Irritation: Causes serious eye damage. Vapour may be irritating to the eye.

Respiratory Irritation: Inhalation of vapours may cause irritation to the respiratory system.

Sensitisation: Not expected to be a sensitiser.

Germ Cell Mutagenicity: Not classified. Based on available data, the classification criteria are not met.

Carcinogenicity: Not classified.

Reproductive Toxicity: Not classified. Based on available data, the classification criteria are not met.

Target Organ Toxicity: Not classified (single exposure or repeated exposure STOT)

Aspiration Hazard: Not classified.

Additional Information: None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as being carcinogens.

Section 12 – ECOTOXICITY INFORMATION

Ecotoxicity: Mild water pollutant (surface water). May cause eutrophication. Toxic to plankton. Slightly harmful to bacteria. Slightly harmful to aquatic organisms. pH shift. Avoid release to the environment.

Mobility: Not determined.

Persistence/degradability: Expected to be inherently biodegradable.

Bioaccumulation: Not bioaccumulative.

Section 13 – DISPOSAL CONSIDERATIONS

Material Disposal: Product wastes are considered ecotoxic and should be disposed of in accordance with applicable regional and national laws and regulations. Do not dispose into the environment, in drains or in water courses. Waste product should not be allowed to contaminate soil or water.

Container Disposal: Recycle empty container if possible.

Section 14 – TRANSPORT INFORMATION

Transport: Classified as a dangerous goods according to the NZ Land Transport Rule for road and rail, IMDG for sea, IATA for air.

Proper Shipping Name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (contains phosphoric acid)

UN Number: UN3264

Dangerous Goods Class: 8

Subsidiary Risk: Not applicable

Packing Group: III – Minor danger

Hazard Labels: 8 – Corrosive



Marine Pollutant: Marine pollutant

IMDG EMS Number: F-A, S-B

IMDG Special Provisions: 223, 274

Section 15 – REGULATORY INFORMATION

Regulatory information specific for the substance or mixture

This substance is to be managed using the conditions specified in an applicable Group Standard.

Group Standard HSR002609 Metal Industry Products (Corrosive) Group Standard 2017

Section 16 – OTHER INFORMATION

This MSDS summarises our best knowledge of the health and safety hazard information. Since we cannot control the conditions under which the product may be used, each user must review this MSDS in the context of how the user intends to use the product.

End of msds.