



Nonfood Compounds
Program Listed A3
150090

TB-21 WELD CLEANING FLUID FOR STAINLESS STEEL



POWERED BY ENSITECH

SAFETY DATA SHEET

According to the Hazardous Products Regulations (HPR) WHMIS 2022
Issue date: 05/30/2025 Revision date: 02/06/2026 Version: 1.1

SECTION 1 Identification

1.1. GHS Product identifier

Product form : Mixture
Product name : TB-21 WELD CLEANING FLUID FOR STAINLESS STEEL

1.2. Other means of identification

Synonyms : TB21 WELD CLEANING FLUID • WELD CLEANING FLUID

1.3. Recommended use of the chemical and restrictions on use

Recommended use : TIG BRUSH WELD CLEANING SOLUTION FOR STAINLESS STEEL

1.4. Supplier's details

Distributor

Ensitech Pty Ltd.
1/144 Old Bathurst Rd
Emu Plains, NSW 2750
Australia
T +61 2 4735 7700 - F +61 2 4735 7744
info@ensitech.com.au - <https://www.tigbrush.com>

Distributor

WeldCor Supplies Inc.
#7, 401 Pakwa Place
Saskatoon, Saskatchewan
Canada, S7L 6A3
Ph: 1-306-974-9750

1.5. Emergency phone number

Emergency number : 13 11 26 (Australia); +1 352-323-3500 (International)

SECTION 2 Hazard identification

2.1. Classification of the substance or mixture

Classification (GHS CA)

Corrosive to metals, Category 1	H290	May be corrosive to metals
Skin corrosion/irritation, Category 1B	H314	Causes severe skin burns and eye damage
Serious eye damage/eye irritation, Category 1	H318	Causes serious eye damage
Health hazards not otherwise classified, Category 1		Causes severe damage to the respiratory tract

2.2. GHS label elements, including precautionary statements

GHS-CA labelling

Hazard pictograms (GHS-CA) :



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Signal word (GHS CA)	: Danger
Hazard statements (GHS-CA)	: H290 - May be corrosive to metals H314 - Causes severe skin burns and eye damage HHNOC - Causes severe damage to the respiratory tract
Precautionary statements (GHS-CA)	: P234 - Keep only in original packaging. P260 - Do not breathe dust, fume, gas, mist, vapours, spray. P264 - Wash hands, forearms and face thoroughly after handling. P280 - Wear protective gloves, protective clothing, eye protection, face protection, and hearing protection. 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 . P363 - Wash contaminated clothing before reuse. P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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 CENTER or a doctor. P390 - Absorb spillage to prevent material-damage. P405 - Store locked up. P501 - Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

2.3. Other hazards which do not result in classification

No additional information available

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%Weight
Phosphoric acid	Phosphoric acid solution / PHOSPHORIC ACID / Phosphoric acid, solution / Phosphoric acid, liquid / Orthophosphoric acid / Hydrophosphoric acid / Orthophosphoric acid ... % / Phosphoric acid ... % / phosphoric acid / Phosphoric acid... % / Phosphoric acid ...% / ortho-Phosphoric acid / o-Phosphoric acid	CAS-No.: 7664-38-2	10 - 30

*Chemical name, CAS number and/or exact concentration have been withheld as CBI

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SECTION 4 First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures after inhalation	: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER/doctor.
First-aid measures after skin contact	: If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor.
First-aid measures after eye contact	: 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/doctor.
First-aid measures after ingestion	: IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Immediately call a POISON CENTER or doctor.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects after inhalation	: Causes burns to the respiratory system.
Symptoms/effects after skin contact	: Causes severe skin burns. Symptoms may include redness, pain, blisters.
Symptoms/effects after eye contact	: Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns.
Symptoms/effects after ingestion	: May be harmful if swallowed. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Other medical advice or treatment	: Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
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SECTION 5 Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: Do not use water jet.

5.2. Specific hazards arising from the chemical

Fire hazard	: Products of combustion may include, and are not limited to: oxides of carbon. Phosphorus oxides. Contact with metals could evolve flammable hydrogen gas.
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5.3. Special protective actions for fire-fighters

Protection during firefighting	: Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).
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SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.
Environmental precautions	: Prevent entry to sewers and public waters.

6.2. Methods and materials for containment and cleaning up

For containment	: Stop leak if safe to do so. Absorb and/or contain spill with inert material (sand, vermiculite or other appropriate material), then place in suitable container. Do not flush into surface water or sewer system. Wear recommended personal protective equipment.
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Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal. Provide ventilation. Absorb spillage to prevent material damage.

For further information refer to section 8: "Exposure controls/personal protection"

SECTION 7 Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Do not get in eyes, on skin, or on clothing. Do not breathe dust/fume/gas/mist/vapours/spray. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke. Not for spray application.

Hygiene measures : Take off immediately all contaminated clothing and wash it before reuse. Wash hands, forearms and face thoroughly after handling.

Additional hazards when processed : May be corrosive to metals.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep out of the reach of children. Keep container tightly closed. Keep only in original container. Store in a dry, cool and well-ventilated place. Store locked up. Store away from foodstuffs. Protect from physical damage.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

Phosphoric acid (7664-38-2)

USA - ACGIH - Occupational Exposure Limits

ACGIH OEL TWA	1 mg/m ³
ACGIH OEL STEL	3 mg/m ³

USA - OSHA - Occupational Exposure Limits

OSHA PEL TWA	1 mg/m ³
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8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station. Provide readily accessible eye wash stations and safety showers.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment (PPE)

Hand protection:

Wear suitable gloves resistant to chemical penetration. Consult glove manufacturer's product information on material suitability and material thickness. Examples of preferred glove barrier materials include: Polyvinylchloride (PVC), Rubber.

Eye protection:

Wear eye/face protection. Use splash goggles when eye contact due to splashing is possible

Skin and body protection:

Wear suitable protective clothing

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Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Face mask with type B filter. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. SDSs cannot provide detailed and complete respiratory protection guidelines. Selection of respiratory protection must be done by a qualified person who has assessed the work environment.

Other information:

Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	: Liquid
Appearance	: Orange.
Colour	: Orange
Odour	: Sweet
Odour threshold	: No data available
pH	: 2.01
Evaporation rate	: As water
Relative evaporation rate (ether=1)	: No data available
Melting point	: < 0 °C
Freezing point	: No data available
Boiling point	: ≈ 100 °C
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not flammable
Vapour pressure	: 18 mm Hg @ 20 °C
Relative vapour density at 20°C	: No data available
Relative density	: ≈ 1
Solubility	: Soluble in water.
Partition coefficient n-octanol/water	: No data available
Viscosity, kinematic	: No data available
Explosive limits	: No data available
Particle characteristics	: No data available

Phosphoric acid (7664-38-2)

Boiling point	296.5 °C Atm. press.: 983 hPa
Vapour pressure	0.95 hPa (at 20 °C (70% aqueous solution))

9.2. Data relevant with regard to physical hazard classes (supplemental)

% Volatiles : > 60 % (Water)

SECTION 10 Stability and reactivity

Reactivity	: No dangerous reactions known under normal conditions of use. May be corrosive to metals.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use. Polymerisation will not occur.
Conditions to avoid	: Heat. Ignition sources. Incompatible materials.
Incompatible materials	: Oxidizing agents. Alkalis. Metals.

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Hazardous decomposition products : May include, and are not limited to: oxides of carbon. Phosphorus oxides. Contact with metals could evolve flammable hydrogen gas.

Hardening time: : No additional information available

SECTION 11 Toxicological information

11.1. Likely routes of exposure

Acute toxicity (oral) : Not classified.

Acute toxicity (dermal) : Not classified.

Acute toxicity (inhalation) : Not classified.

Phosphoric acid (7664-38-2)	
LD50 oral rat	1530 mg/kg (Source: JAPAN_GHS)
LD50 oral	2000 mg/kg
LD50 dermal rabbit	2740 mg/kg (Source: JAPAN_GHS)
LD50 dermal	1071 mg/kg
ATE CA (oral)	1530 mg/kg bodyweight
ATE CA (Dermal)	2740 mg/kg bodyweight

Skin corrosion/irritation : Causes severe skin burns.
pH: 2.01

Phosphoric acid (7664-38-2)	
pH	1.5 (conc: 1.0 %)

Serious eye damage/irritation : Causes serious eye damage.
pH: 2.01

Phosphoric acid (7664-38-2)	
pH	1.5 (conc: 1.0 %)

Respiratory or skin sensitization : Not classified.

Germ cell mutagenicity : Not classified.

Carcinogenicity : Not classified.

Reproductive toxicity : Not classified.

STOT-single exposure : Not classified.

STOT-repeated exposure : Not classified.

Phosphoric acid (7664-38-2)	
NOAEL (oral, rat, 90 days)	250 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

Aspiration hazard : Not classified.

Phosphoric acid (7664-38-2)	
Viscosity, kinematic	104.412 – 112.342 mm ² /s

Symptoms/effects after inhalation : Causes burns to the respiratory system.

Symptoms/effects after skin contact : Causes severe skin burns. Symptoms may include redness, pain, blisters.

Symptoms/effects after eye contact : Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns.

Symptoms/effects after ingestion : May be harmful if swallowed. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Other information : Likely routes of exposure: ingestion, inhalation, skin and eye.

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SECTION 12 Ecological information

12.1. Toxicity

Ecology - general : Harmful to aquatic life.
Hazardous to the aquatic environment, short-term (acute) : Not classified.
Hazardous to the aquatic environment, long-term (chronic) : Not classified.

Phosphoric acid (7664-38-2)	
LC50 - Fish [1]	75.1 mg/l
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

12.2. Persistence and degradability

TB-21 WELD CLEANING FLUID FOR STAINLESS STEEL	
Persistence and degradability	Not established.

Phosphoric acid (7664-38-2)	
Persistence and degradability	Not rapidly degradable

12.3. Bioaccumulative potential

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Bioaccumulative potential	Not established.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Ozone : Not classified.
Other information : No other effects known.
Fluorinated greenhouse gases : No

SECTION 13 Disposal considerations

Product/Packaging disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

SECTION 14 Transport information

In accordance with TDG

14.1. UN Number

UN-No. (TDG) : UN1760

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14.2. UN Proper Shipping Name

Proper Shipping Name (TDG) : CORROSIVE LIQUID, N.O.S. (Phosphoric acid)

14.3. Transport hazard class(es)

TDG

Transport hazard class(es) (TDG) : 8

Hazard labels (TDG) : 8



14.4. Packing group, if applicable

Packing group (TDG) : II

14.5. Environmental hazards

Dangerous for the environment : No

Other information : No supplementary information available.

14.6. Special precautions for user

Special transport precautions : Do not handle until all safety precautions have been read and understood.

TDG

UN-No. (TDG) : UN1760

TDG Special Provisions : 16 - (1) The technical name of at least one of the most dangerous substances that predominantly contributes to the danger or dangers posed by the dangerous goods must be shown, in parentheses, on the shipping document following the shipping name in accordance with clause 3.5(1)(c)(ii)(A). The technical name must also be shown, in parentheses, on a small means of containment or on a tag following the shipping name in accordance with subsections 4.11(2) and (3).

(2) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a shipping document or on a small means of containment when Canadian law for domestic transport or an international convention for international transport prohibits the disclosure of the technical name:

(a) UN1544, ALKALOID SALTS, SOLID, N.O.S. or ALKALOIDS, SOLID, N.O.S.;

(b) UN1851, MEDICINE, LIQUID, TOXIC, N.O.S.;

(c) UN3140, ALKALOID SALTS, LIQUID, N.O.S. or ALKALOIDS, LIQUID, N.O.S.;

(d) UN3248, MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S. or

(e) UN3249, MEDICINE, SOLID, TOXIC, N.O.S.

(3) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a small means of containment:

(a) UN2814, INFECTIOUS SUBSTANCE, AFFECTING HUMANS; or

(b) UN2900, INFECTIOUS SUBSTANCE, AFFECTING ANIMALS.

Explosive Limit and Limited Quantity Index : 1 L

Excepted quantities (TDG) : E2

Passenger Carrying Road Vehicle or Passenger : 1 L

Carrying Railway Vehicle Index

14.7. Transport in bulk according to Annex II of MARPOL 73/78⁹ and the IBC Code¹⁰

Not applicable

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SECTION 15 Regulatory information

All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories.

SECTION 16 Other Information

Issue date : 05/30/2025
Revision date : 02/06/2026

Other information : None.
Prepared by : Nexreg Compliance Inc.
www.Nexreg.com



Full text of hazard classes and H-statements:

H290	May be corrosive to metals
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage

Indication of changes:

Product name.

Safety Data Sheet (SDS), Canada - Nexreg 2025

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