



Nonfood Compounds
Category Code A3

TC-275 WELD CLEANING FLUID FOR STAINLESS STEEL



SAVETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier

Product name **TC-275 WELD CLEANING FLUID FOR STAINLESS STEEL**
Synonym(s) WELD CLEANING FLUID FOR STAINLESS STEEL

1.2 Uses and uses advised against

Use(s) WELD CLEANING SOLUTION FOR STAINLESS STEEL

1.3 Details of the supplier of the product

Supplier name HSF Industrietechnik GmbH
Adress Landstraße 55A, 35080 Bad Endbach, Germany
Telephone +49 (0) 2776/92278-0
Website www.hsf-group.de

1.4 Emergency telephone number(s)

DE Giftnotrufzentralen / +49 761 19240
CH TOX Info Suisse, Freiestrasse 16, CH-8032 Zürich / Nationale 24h-
Notfallnummer: 145 (aus dem Ausland: +41 44 251 51 51)

2. HAZARDS IDENTIFICATION

2.1-Classification of the substance or mixture

CLASSIFICATION ACCORDING TO REGULATION (EC) NO. 1272/2008 [CLP / GHS]
Skin corrosion / irritation: Category 1B

2.2 Label elements

KENNZEICHNUNG GEMÄSS VERORDNUNG (EG) NR. 1272/2008 [CLP/GHS]



Signal word: Danger



Signal word: Warning

Hazard statements

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

Safety statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P303/P361/P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305/P351/P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

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P310 Immediately call a POISON CENTER/doctor.
P405 Store locked up.

2.3 Other hazards

No information provided.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances / Mixtures

Ingredient	CAS Number	Classification		Content
		67/548/EWG	1272/2008[CLP]	
PHOSPHORIC ACID	CAS: 7664-38-2 EC: 231-633-2	C; R34	Skin etching 1B	55-75 %
WATER	CAS: 7732-18-5 EC: 231-791-2			Remainder
ADDITIVE(S)				<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 or a doctor (at once). If swallowed, do not induce vomiting..

POISON CENTERS

Belgien: +32 70 245 245
Deutschland: +49 684 1 192 40
Frankreich +33 1 40 05 48 48
Italien: +39 02 6610 1029
Niederlande: +31 30 274 88 88
Schweiz: +41 44 251 51 51
Spanien: +34 156 20420
Polen: +48 12 411 99 99
Tschechische Republik: +420 22 49 192 93

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4.2 Most important symptoms and effects, both acute and delayed

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

4.3 Immediate medical assistance or special treatment

Symptomatic treatment.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Use an extinguishing agent suitable for the surrounding fire.

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

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS. Clear area of all unprotected personnel. Ventilate area where possible. Contact emergency services where appropriate.

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 Sections 8 and 13 for exposure controls and disposal.

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 incompatible substances, heat or ignition sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use.

7.3 Specific end use(s)

No information provided.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Exposure standards

Ingredient	Reference	TWA		STEL	
Phosphoric acid	WEL (UK)	-	1 mg/m ³	-	-

8.2 Exposure controls

Technical control measures

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

PPE

Eye / Face

Wear splash-proof goggles.

Hands

Wear PVC or rubber gloves.

Bodyr

Wear good quality (cotton drill etc) work wear and use common sense and section 4 First aid measures if required. If using large quantities for long periods, or if working at eye level or overhead, coveralls, rubber boots and PVC apron should be used.

Respiratory

In case of inhalation danger wear a type B respirator (inorganic gases and vapors)



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 bis 3
Melting point	< 0°C
Freezing point	NOT AVAILABLE
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	18mm Hg bei 20° C
Vapour density	NOT AVAILABLE
Specific gravity	1.36
Solubility (water)	SOLUBLE
Partition coefficient	NOT AVAILABLE
Autoignition temperature	NOT AVAILABLE
Decomposition temperature	NOT AVAILABLE
Viscosity	NOT AVAILABLE
Explosive properties	NOT AVAILABLE
Oxidizing properties	NOT AVAILABLE

9.2 Other Information

No information

10. STABILITY AND REACTIVITY

10.1 Reactivity

May be corrosive to metals.

10.2 Chemical stability

Stable under recommended conditions of storage.

10.3 Possibility of hazardous reactions

Polymerization is not expected to occur.

10.4 Conditions to avoid

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

10.5 Incompatible materials

Incompatible with oxidising agents (e.g. hypochlorites), alkalis (e.g. sodium hydroxide) and metals.

10.6 Hazardous decomposition products

May evolve toxic gases (phosphorus oxides) when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity	The following toxicity data are based on phosphoric acid: LD50 (Ingestion): 1530 mg / kg (rat) Inhalation toxicity: No reliable data are available. Dermal toxicity: 2740 mg / kg (rabbit)
Skin	Causes severe burns. Contact may result in irritation, redness, pain, rash, dermatitis and possible burns. Effects may be delayed.
Eye	Causes severe burns. Contact may result in irritation, lacrimation, pain, redness and corneal burns with possible permanent eye damage.
Sensitisation	Not classified as causing skin or respiratory sensitisation.
Mutagenicity	Not classified as a mutagen..
Carcinogenicity	Not classified as a carcinogen.
Reproductive	Not classified 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. Effects may be delayed.
STOT – repeated exposure	Not classified as causing organ damage from repeated exposure. Adverse effects are generally associated with single exposure.
Aspiration	Not classified as causing aspiration.

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. Some acid will be neutralised, however significant amounts will remain for transport to groundwater.

12.5 Other adverse effects

No information provided.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste disposal For small amounts (as determined by risk assessment or similar): 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. For larger amounts: Dispose in accordance with local regulations.

Legislation Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

REGULATED FOR TRANSPORT	LAND TRANSPORT	SEA TRANSPORT	AIR TRANSPORT
14.1. UN-Number	1805	1805	1805
14.2. Proper Shipping Name-	PHOSPHORIC ACID, SOLUTION	PHOSPHORIC ACID, SOLUTION	PHOSPHORIC ACID, SOLUTION
14.3. Transport Hazard Class	8	8	8
14.4. Packing Group	III	III	III
14.5. Environmental hazards	No	No	No
14.6. Special precautions for user	No	No	No

15. REGULATORY INFORMATION

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

Labeling according to Regulation (eG) No. 1272/2008 (CIP / GHS)
ghs 05

classification ghs 05; h314
H-Sätze **H290** May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
P-Sätze **P260** Do not breathe dust/fume/gas/mist/vapours/spray.
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16. OTHER INFORMATION

Abbreviations

ACGIH	-American Conference of industrial Hygienists.
ADG	-Australian Dangerous Goods.
BEI	-Biological Exposure Indice(s).
CAS-Nr.	- Zur eindeutigen Identifizierung chemischer Verbindungen (Chemical Abstract Service Number).
CNS (ZNS)	- Central Nervous System (Zentralnervensystem).
EG-Nr.	- EG-Stoff-Inventar
HSNO	-Hazardous Substances and New Organisms (Gefahrstoffverordnung).
IARC	- International Agency for Research on Cancer (Internationales Krebsforschungszentrum). mg/m ³ - Milligramm pro Kubikmeter.
NOS	- Not Otherwise Specified (nicht anders genannt).
pH	- bezeichnet die Wasserstoffionen-Konzentration anhand einer Skala von 0 (stark sauer) bis 14 (stark alkalisch).
ppm	- Teile pro 1 Million (parts per million).
RTECS	- Registry of Toxic Effects of Chemical Substances (Datenbank toxikologischer Informationen). - Short Term Exposure Limit (Grenzwert für kurzfristige Exposition).
STEL	- Short Term Exposure Limit (Grenzwert für kurzfristige Exposition).
SWA	- Safe Work Australia.
TWA	- Time Weighted Average (zeitgewichteter Mittelwert)

Report status: This document has been prepared as a safety data sheet for the product TC-275. The information was released to the best of our knowledge from literature reference works. Although great care has been taken to present current information in all correctness, its completeness or accuracy cannot be guaranteed. For this reason, no liability can be accepted for losses, injuries or damage (including consequential damage) that has arisen to a person who has trusted this information. This product must not be mixed, mixed or processed with other products, as the resulting changes to the product do not correspond to the original information in the safety data sheet.

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