

according to Regulation (EC) No 1907/2006 (REACH) as amended

# **Soldering Acid**

Creation date 25. November 2011

Revision date 17. November 2018 Version 4.0

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifierSoldering AcidSubstance / mixturemixture

Relevant identified uses of the substance or mixture and uses advised against

mixture's intended use Soldering nickel surfaces.

Mixture uses advised against

The product should not be used in ways other then those

referred in Section 1.

### 1.3. Details of the supplier of the safety data sheet

Distributor

1.1.

1.2.

Name or trade name AG TermoPasty Grzegorz Gąsowski Address Kolejowa 33 E, Sokoły, 18-218

Poland

 Identification number (ID)
 200133730

 VAT Reg No
 9661767714

 Phone
 862741342

E-mail biuro@termopasty.pl Web address www.termopasty.pl

Competent person responsible for the safety data sheet

Name AG TermoPasty Grzegorz Gąsowski

biuro@termopasty.pl

1.4. Emergency telephone number

E-mail

National Health Service (NHS) 111

National poisoning information centre Scotland, NHS 24: 111

#### **SECTION 2: Hazards identification**

#### 2.1. Substance or mixture classification

### Classification of the mixture in accordance with Regulation (EC) No 1272/2008

The mixture is classified as dangerous.

Skin Corr. 1B, H314

Full text of all classifications and hazard statements is given in the section 16.

### Most serious adverse effects on human health and the environment

Causes severe skin burns and eye damage.

### 2.2. Label elements

# Hazard pictogram



### Signal word

Danger

### Hazardous substances

phosphoric acid ... %, orthophosphoric acid ... %

### **Hazard statements**

H314 Causes severe skin burns and eye damage.

# **Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children. P103 Read label before use. P260 Do not breathe spray.

P264 Wash hands thoroughly after handling.



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P280	Wear protective gloves/protective clothing/eye protection/face 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 or shower.						
P304+P340	IF INHALED: Remove person	to fresh air and keep comfo	rtable 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.						
P363	Wash contaminated clothing before reuse.						
P405	Store locked up.						
P501	Dispose of contents/container to in accordance with local/regional/national/international						

#### 2.3. Other hazards

Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

#### **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

#### **Chemical characterization**

Mixture of substances and additives specified below.

regulations.

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note.
Index: 015-011-00-6 CAS: 7664-38-2 EC: 231-633-2 Registration number: 01-2119485924-24- xxxx	phosphoric acid %, orthophosphoric acid %	≥25	Skin Corr. 1B, H314 Specific concentration limit: Skin Corr. 1B, H314: $C \ge 25\%$ Eye Irrit. 2, H319: $10\% \le C < 25\%$ Skin Irrit. 2, H315: $10\% \le C < 25\%$	1, 2
Index: 607-006-00-8 CAS: 6153-56-6 EC: 205-634-3 Registration number: 01-2119534576-33- xxxx	Kwas szczawiowy	<5	Acute Tox. 4, H302+H312 Eye Dam. 1, H318	

#### Notes

- Note B: Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid ... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.
- 2 Substance for which exposure limits of Community for working environment exist.

Full text of all classifications and hazard statements is given in the section 16.

### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

#### Inhalation

Terminate the exposure immediately; move the affected person to fresh air. Take care of your own safety, do not let the affected person walk! Beware of the contaminated clothes. Depending on the situation, call the medical rescue service and ensure medical treatment considering the frequent need of further observation for at least 24 hours.



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#### Skin contact

Remove contaminated clothes. Take off any rings, watches, bracelets before or during washing if worn in the contaminated areas of the skin. Depending on the situation, call the medical rescue service and always ensure medical treatment. Rinse contaminated areas with a flow of water, lukewarm at best, for 10-30 minutes; do not use any brush, soap or neutralizers. Rinse skin with water/shower. Rinse cautiously with water for several minutes.

#### Eye contact

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. No neutralization should be performed in any case! Rinsing should be continued for 10-30 minutes from the inner to the outer eye corner to make sure that the other eye is not involved. Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible. Everyone must be referred for treatment even if affected only a little.

#### Ingestion

DO NOT INDUCE VOMITING - there is danger of further damage to the gastrointestinal tract!!! Danger of esophageal and gastric perforation! RINSE THE MOUTH WITH WATER IMMEDIATELY AND LET THE PERSON DRINK 2-5 dl of cold water to reduce the heating effect of the corrosive substance. Consuming larger amounts of liquid is not advisable as it may induce vomiting and potential inhaling of the corrosive substances in the lungs. The affected person must not be forced to drink, particularly if already feeling pain in the mouth or throat. In this case let the affected person only rinse the mouth with water. DO NOT PROVIDE ACTIVATED CARBON! Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible.

#### 4.2. Most important symptoms and effects, both acute and delayed

#### Inhalation

Inhaling vapours can cause corrosion of the breathing system.

#### Skin contact

Causes severe skin burns.

#### Eve contact

Causes serious eye damage.

#### Ingestion

Corrosion of the digestion system can occur.

### 4.3. Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

### **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

### Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

### Unsuitable extinguishing media

Water - full jet.

### 5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

### 5.3. Advice for firefighters

Use a self-contained breathing apparatus and full-body protective clothing. Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

### **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale aerosols. Prevent contact with skin and eyes.

### 6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

### 6.3. Methods and material for containment and cleaning up

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

# 6.4. Reference to other sections

See the Section 7, 8 and 13.



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# SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Prevent formation of gases and vapours in concentrations exceeding the occupational exposure limits. Do not inhale aerosols. Prevent contact with skin and eyes. Wash hands and exposed parts of the body thoroughly after handling. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

### 7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Store locked up.

### 7.3. Specific end use(s)

not available

### **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

#### **European Union**

Substance name (component)	Туре	Time of exposure	Value	Note	Source
phosphoric acid %, orthophosphoric acid % (CAS: 7664-38-2)	OEL	8 hours	1 mg/m³		
	OEL	Short-term	2 mg/m³		EU limits

### **United Kingdom of Great Britain and Northern Ireland**

Substance name (component)	Туре	Time of exposure	Value	Note	Source
phosphoric acid %, orthophosphoric acid % (CAS: 7664-38-2)	WEL	8 hours	1 mg/m³		
	WEL	15 minutes	2 mg/m³		GBR

#### DNEL

phosphoric acid ... %, orthophosphoric acid ... %

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Inhalation	1 mg/m³	Local chronic effects	
Workers	Inhalation	2 mg/m <sup>3</sup>	Local acute effects	
Consumers	Inhalation	0.73 mg/m <sup>3</sup>	Local chronic effects	

### **PNEC**

### Kwas szczawiowy

Route of exposure	Value	Determining method
Drinking water	0.1622 mg/l	
Seawater	0.01622 mg/l	
Microorganisms in wastewater treatment plants	1550 mg/l	



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### 8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

#### Eye/face protection

Protective goggles or face shield (based on the nature of the work performed).

#### Skin protection

Hand protection: Protective gloves resistant to the product. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: protective workwear. Contaminated skin should be washed thoroughly.

#### Respiratory protection

Halfmask with a filter against organic vapours or a self-contained breathing apparatus as appropriate if exposure limit values of substances are exceeded or in a poorly ventilated environment.

#### Thermal hazard

Not available.

#### **Environmental exposure controls**

Observe usual measures for protection of the environment, see Section 6.2.

### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Appearance liquid
Physical state liquid at 20°C

color from colorless to green-brown

Odour characteristic
Odour threshold data not available
pH <1.0 (undiluted)
Melting point/freezing point data not available

Initial boiling point and boiling range 100 °C

Flash point data not available
Evaporation rate data not available
Flammability (solid, gas) non-inflammable

Upper/lower flammability or explosive limits

flammability limits data not available explosive limits data not available Vapour pressure data not available Vapour density data not available Relative density data not available

Solubility(ies)

solubility in water soluble

solubility in fats data not available
Partition coefficient: n-octanol/water data not available
Auto-ignition temperature data not available
Decomposition temperature data not available
Viscosity data not available
Explosive properties data not available
Oxidising properties data not available

9.2. Other information

Density 1.2 g/cm³ ignition temperature data not available

### **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

not available

# 10.2. Chemical stability

The product is stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Unknown.



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### 10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost

### 10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

#### 10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

#### **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

No toxicological data is available for the mixture.

### **Acute toxicity**

Based on available data the classification criteria are not met.

#### Kwas szczawiowy

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Oral	LD50	375 mg/kg		Rat (Rattus norvegicus)	
Dermal	LD <sub>50</sub>	20000 mg/kg		Rabbit	

#### phosphoric acid ... %, orthophosphoric acid ... %

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Oral	LD50	2600 ml/kg		Rat (Rattus norvegicus)	
Oral	NOAEL	250 mg/kg		Rat (Rattus norvegicus)	

# Skin corrosion/irritation

Causes severe skin burns and eye damage.

### Serious eye damage/irritation

Causes severe skin burns and eye damage.

### Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

#### Germ cell mutagenicity

Based on available data the classification criteria are not met.

### Carcinogenicity

Based on available data the classification criteria are not met.

### Reproductive toxicity

Based on available data the classification criteria are not met.

### Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

# Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.



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#### **Aspiration hazard**

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. Based on available data the classification criteria are not met.

#### **SECTION 12: Ecological information**

#### 12.1. Toxicity

### **Acute toxicity**

Data for the mixture are not available.

#### Kwas szczawiowy

Parameter	Method	Value	Time of exposure	Species	Environme nt	Determining method
LC50		162.2 mg/l		Fishes		
EC50		61 mg/l	48 hour	Daphnia (Daphnia magna)		

#### phosphoric acid ... %, orthophosphoric acid ... %

Parameter	Method	Value	Time of exposure	Species	Environme nt	Determining method
EC50	OECD 202	>100 mg/l	48 hour	Daphnia (Daphnia magna)	Freshwater	Static system
EC50	OECD 201	>100 mg/l	72 hour	Algae and other aquatic plants	Freshwater	Static system

#### 12.2. Persistence and degradability

Not available.

### 12.3. Bioaccumulative potential

#### Kwas szczawiowy

Parameter	Value	Time of exposure	Species	Environment	Surrounding temperature [°C]
Log Pow	1.7				23°C

Not available.

### 12.4. Mobility in soil

Not available.

## 12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

#### 12.6. Other adverse effects

Not available.

### **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

### Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.



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# SECTION 14: Transport information

#### 14.1. UN number

UN 3264

#### 14.2. UN proper shipping name

CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

#### 14.3. Transport hazard class(es)

8 Corrosive substances

#### 14.4. Packing group

III - substances presenting low danger

#### 14.5. Environmental hazards

not available

### 14.6. Special precautions for user

Reference in the Sections 4 to 8.

# 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not available

### **Additional information**

Hazard identification No.

Classification code

Safety signs

UN number

80 3264 (Kemler Code)

C1



#### Air transport - ICAO/IATA

Packaging instructions passenger 850
Cargo packaging instructions 854

## Marine transport - IMDG

EmS (emergency plan) F-A, S-B

### **SECTION 15: Regulatory information**

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended.

### 15.2. Chemical safety assessment

not available

#### **SECTION 16: Other information**

### A list of standard risk phrases used in the safety data sheet

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H302+H312 Harmful if swallowed or in contact with skin. **Guidelines for safe handling used in the safety data sheet** 

# P260 Do not breathe spray.

P280 Wear protective gloves/protective clothing/eye protection/face 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 or

shower.



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P305+P351+P338	IF IN FYFS: Rinse cautiously v	with water for several minut	es Remove contact lenses	if present

and easy to do. Continue rinsing.

Immediately call a POISON CENTER.

P102 Keep out of reach of children.

P101 If medical advice is needed, have product container or label at hand.

P103 Read label before use.

P264 Wash hands thoroughly after handling.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P363 Wash contaminated clothing before reuse.

P405 Store locked up.

P310

P501 Dispose of contents/container to in accordance with local/regional/national/international

regulations.

#### Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

### Key to abbreviations and acronyms used in the safety data sheet

ADR European agreement concerning the international carriage of dangerous goods by road

BCF Bioconcentration Factor
CAS Chemical Abstracts Service

CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and

mixtures

DNEL Derived no-effect level

EC Identification code for each substance listed in EINECS

EC50 Concentration of a substance when it is affected 50% of the population EINECS European Inventory of Existing Commercial Chemical Substances

EmS Emergency plan EU European Union

IATA International Air Transport Association

IBC International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals

IC50 Concentration causing 50% blockade
ICAO International Civil Aviation Organization
IMDG International Maritime Dangerous Goods

INCI International Nomenclature of Cosmetic Ingredients
ISO International Organization for Standardization
IUPAC International Union of Pure and Applied Chemistry

LC50 Lethal concentration of a substance in which it can be expected death of 50% of the population

LD50 Lethal dose of a substance in which it can be expected death of 50% of the population

LOAEC Lowest observed adverse effect concentration

LOAEL Lowest observed adverse effect level log Kow Octanol-water partition coefficient

MARPOL International Convention for the Prevention of Pollution From Ships

NOAEC No observed adverse effect concentration

NOAEL No observed adverse effect level NOEC No observed effect concentration

NOEL No observed effect level
OEL Occupational Exposure Limits
PBT Persistent, Bioaccumulative and Toxic
PNEC Predicted no-effect concentration

ppm Parts per million

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals

RID Agreement on the transport of dangerous goods by rail

UN Four-figure identification number of the substance or article taken from the UN Model

Regulations

UVCB Substances of unknown or variable composition, complex reaction products or biological

materials

VOC Volatile organic compounds

vPvB Very Persistent and very Bioaccumulative



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Acute Tox. Acute toxicity
Eye Dam. Serious eye damage
Skin Corr. Skin corrosion

#### Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

#### Recommended restrictions of use

not available

#### Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. First aid principles after the exposure to the chemicals (Zásady pro poskytování první pomoci při expozici chemickým látkám, doc. MUDr. Daniela Pelclová, CSc., MUDr. Alexandr Fuchs, CSc., MUDr. Miroslava Hornychová, CSc., MUDr. Zdeňka Trávníčková, CSc., Jiřina Fridrichovská, prom. chem.). Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

### The changes (which information has been added, deleted or modified)

The version 4.0 replaces the SDS version from 23.03.2018. Changes were made in sections 2, 13, 15 and 16.

#### Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.