

Safety data sheet

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Chemetall (now part of BASF Group) Safety data sheet

Date / Revised: 22.03.2021

Product: **AL18**

Version: 1.1

(30722052/SDS_GEN_NZ/EN)

Date of print 24.03.2021

1. Substance/preparation and manufacturer/supplier identification

AL18

Recommended use: Metal Brightener

Not recommended use: Uses other than recommended

Manufacturer/supplier:

Chemetall (New Zealand) Ltd
664 Rosebank Road Avondale,
Auckland 1026
NEW ZEALAND
Telephone: 008 837 464, +64 9 820 3888
Telefax number: +64 9 820 3979
E-mail address: nzadmin@basf.com

Emergency information:

National Poisons Centre: 0800 764 766
BASF Emergency Advice Number: 0800 944 955 (24 hour advice in an emergency only)
BASF Emergency Advice Number: +61 3 8855 6666 (If calling from outside New Zealand)

2. Hazard identification

Classification of the substance and mixture:

Acute toxicity: Cat. 3 (oral)

Acute toxicity: Cat. 2 (dermal)

Acute toxicity: Cat. 4 (Inhalation - vapour)

Skin corrosion/irritation: Cat. 1B

Serious eye damage/eye irritation: Cat. 1

Hazardous to the aquatic environment - acute: Cat. 2

Corrosive to metals: Cat. 1

Label elements and precautionary statement:

Pictogram:



Signal Word:
 Danger

Hazard Statement:

H290	May be corrosive to metals.
H301	Toxic if swallowed.
H310	Fatal in contact with skin.
H314	Causes severe skin burns and eye damage.
H332	Harmful if inhaled.
H401	Toxic to aquatic life.

Precautionary Statements (Prevention):

P280	Wear protective gloves, protective clothing and eye protection or face protection.
P271	Use only outdoors or in a well-ventilated area.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P260	Do not breathe dust or mist.
P270	Do not eat, drink or smoke when using this product.
P262	Do not get in eyes, on skin, or on clothing.
P234	Keep only in original packaging.
P264	Wash contaminated body parts thoroughly after handling.

Precautionary Statements (Response):

P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or physician.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P303 + P361 + P353	IF ON SKIN (or hair): Remove or Take off immediately all contaminated clothing. Rinse skin with water or shower.
P301 + P330 + P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P310	Immediately call a POISON CENTER or physician.
P330	Rinse mouth
P363	Wash contaminated clothing before reuse.
P390	Absorb spillage to prevent material damage.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P361 + P364	Take off immediately all contaminated clothing and wash it before reuse.

Precautionary Statements (Storage):

P405	Store locked up.
P406	Store in corrosive resistant container with a resistant inner liner.

Precautionary Statements (Disposal):

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P501 Dispose of contents and container to hazardous or special waste collection point.

Other hazards which do not result in classification:
 If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

3. Composition/information on ingredients

Chemical nature

Water, inorganic acids

Hazardous ingredients

phosphoric acid

Content (W/W): $\geq 20\%$ - $< 25\%$	Met. Corr.: Cat. 1
CAS Number: 7664-38-2	Acute Tox.: Cat. 5 (oral)
	Skin Corr./Irrit.: Cat. 1B
	Eye Dam./Irrit.: Cat. 1

Hydrofluoric acid

Content (W/W): $\geq 3\%$ - $< 5\%$	Acute Tox.: Cat. 2 (Inhalation - gas)
CAS Number: 7664-39-3	Acute Tox.: Cat. 2 (oral)
	Acute Tox.: Cat. 1 (dermal)
	Skin Corr./Irrit.: Cat. 1A
	Eye Dam./Irrit.: Cat. 1
	Aquatic Acute: Cat. 3

Alcohols, C12-15, ethoxylated, 1-2.5 EO

Content (W/W): $\geq 3\%$ - $< 5\%$	Eye Dam./Irrit.: Cat. 1
CAS Number: 68131-39-5	Aquatic Acute: Cat. 1
	Aquatic Chronic: Cat. 3

4. First-Aid Measures

General advice:

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Remove affected person from danger area. Keep warm, calm and covered up. Immediately remove contaminated clothing. Never give anything by mouth to an unconscious person. In case of intoxication, call a poison control center or physician for treatment advice, taking the packaging or the label of the product. Symptoms of poisoning may occur even after several hours, continue medical observation for at least 48 hours after the accident.

If inhaled:

Immediate medical attention required. Remove the affected individual into fresh air and keep the person calm. If breathing is irregular or stopped, administer artificial respiration.

On skin contact:

Flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing immediately and clean before re-use or dispose it if necessary. Immediate medical attention required. Apply calcium gluconate gel.

On contact with eyes:

Remove contact lenses, if present. Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist. Immediate medical attention required.

On ingestion:

Summon medical aid without delay. Keep at rest. Immediately rinse mouth and then drink milk or a magnesium hydroxide/calcium carbonate suspension, do not induce vomiting, seek medical attention.

Note to physician:

Symptoms: Symptoms of poisoning may only appear after several hours., Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

Hazards: May cause severe burns of the mouth and throat if orally ingested, as well as a danger of perforation of the oesophagus and the stomach.

Treatment: Symptomatic treatment (decontamination, vital functions).

Antidote: Administration of calcium gluconate.

5. Fire-Fighting Measures

Suitable extinguishing media:

carbon dioxide, alcohol-resistant foam, dry powder, water spray

Unsuitable extinguishing media for safety reasons:

water jet

Specific hazards:

fluorinated compounds, phosphorus oxides

Hazardous decomposition products formed under fire conditions.

Special protective equipment:

Appropriate breathing apparatus may be required.

Further information:

Cool closed containers in the vicinity of the source of fire. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. Product itself is non-combustible; fire extinguishing method of surrounding areas must be considered. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.

6. Accidental Release Measures

Personal precautions:

Use personal protective clothing. Avoid breathing vapours. Keep away from sources of ignition. Ensure adequate ventilation. Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

Environmental precautions:

Do not allow to enter drains or waterways. Do not discharge into the subsoil/soil. If the product enters drains or sewers, the local water company should be contacted immediately; in the case of contamination of streams, rivers or lakes, the Environment Agency.

Methods for cleaning up or taking up:

For large amounts: Use chemical neutralizing agents.

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container for disposal according with the waste regulations (see section 13). Clean preferably with a detergent; avoid the use of solvents. Ensure adequate ventilation.

7. Handling and Storage

Handling

Provide good ventilation of working area (local exhaust ventilation if necessary). Do not return residues to the storage containers. Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws. Avoid inhalation of vapour and spray mist. The workplace should be equipped with an emergency shower and eye-rinsing facility. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:

Avoid all sources of ignition: heat, sparks, open flame. The relevant fire protection measures should be noted.

Storage

Segregate from bases. Keep away from oxidising agents, from strongly alkaline and strongly acid materials.

Suitable materials for containers: High density polyethylene (HDPE), Low density polyethylene (LDPE), Polyethyleneterephthalate (PET), Polypropylene (PP), Carbon steel (Iron), tinned carbon steel (Tinplate)

Suitable materials for containers: rubberized

Further information on storage conditions: Keep container dry. Keep in a cool, well-ventilated place. Avoid direct sunlight. Store only in corrosion proof containers. Close containers carefully once opened and store them upright in order to prevent any leakage. No smoking. No admission for unauthorised personnel. Always keep in containers of same material as the original one. Observe label precautions. avoid contact with metals Store protected against freezing.

8. Exposure controls and personal protection

Components with occupational exposure limits

phosphoric acid, 7664-38-2;

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TWA value 1 mg/m³ (ACGIHTLV)
STEL value 3 mg/m³ (ACGIHTLV)
TWA value 1 mg/m³ (OEL (NZ))

Hydrofluoric acid, 7664-39-3;

CLV 2 ppm (ACGIHTLV)
Measured as: fluorine (F)
TWA value 0.5 ppm (ACGIHTLV)
Measured as: fluorine (F)
CLV 2.6 mg/m³ ; 3 ppm (OEL (NZ))
Measured as: fluorine (F)
Skin Designation (ACGIHTLV)
Measured as: fluorine (F)
Danger of cutaneous absorption
Skin Designation (ACGIHTLV)
Measured as: fluorine (F)
Danger of cutaneous absorption

Personal protective equipment

Respiratory protection:

Self-contained breathing apparatus. Respiratory protection required if exposure limit (if available) may be exceeded (Gas filter EN 14387 B)

Hand protection:

Chemical resistant protective gloves (EN 374)
polyvinylchloride (PVC) - 0.7 mm coating thickness
chloroprene rubber (CR) - 0.5 mm coating thickness
natural rubber/natural latex (NR) - 0.5 mm coating thickness
butyl rubber gloves - material thickness: 0,5 mm
Performance level 6, corresponding to a breakthrough time of >480 min according to EN ISO 374-1
The protection glove should be tested for its specific suitability (e.g. mechanical strength, product compatibility, anti-static properties).
The gloves should be replaced immediately in case of damage or signs of wear. It is recommended to use preventative skin protection (skin cream).

Eye protection:

Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

Body protection:

Chemical resistant protective clothing according to DIN EN 13034 (Type 6)

General safety and hygiene measures:

Do not breathe vapour/spray. Eye wash fountains and safety showers must be easily accessible. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. This can be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations at the workplace below the occupational exposure limits, appropriate certified respirators must be worn. Ensure adequate ventilation. Remove contaminated clothing immediately and dispose of safely. Hands and/or face should be washed before breaks and at the end of the shift. Keep separated from food stuffs and feed stocks.

9. Physical and Chemical Properties

Form:	liquid
Colour:	yellow
Odour:	biting
pH value:	not determined
Melting point:	not determined
onset of boiling:	> 80 °C
Flash point:	> 99 °C
Flammability (solid/gas):	hardly combustible
Lower explosion limit:	not determined
Ignition temperature:	not determined
Self heating ability:	It is not a substance capable of spontaneous heating.
Explosion hazard:	not explosive
Fire promoting properties:	not fire-propagating
Vapour pressure:	(20 °C) not determined
	(50 °C) not determined
Density:	1.150 g/cm ³ (20 °C)
Solubility in water:	soluble
Miscibility with water:	miscible
Viscosity, kinematic:	6.0 mm ² /s (20 °C)
	(40 °C) not determined
Flow time:	< 30 s (DIN EN ISO 2431; 3 mm)

10. Stability and Reactivity

Conditions to avoid:
Avoid direct sunlight. Avoid freezing. avoid contact with metals

Substances to avoid:
bases, Keep away from highly acidic or alkaline substances as well as oxidants in order to prevent exothermal reactions.

Corrosion to metals: Corrosive effect on metals.

Hazardous reactions:
Reacts with metals, with evolution of hydrogen.

When exposed to high temperatures hazardous decomposition products such as carbon monoxide, carbon dioxide, smoke, oxides of nitrogen may be produced., No hazardous decomposition products if stored and handled as prescribed/indicated.

11. Toxicological Information

Acute toxicity

Assessment of acute toxicity:
Of moderate toxicity after short-term inhalation. Of high toxicity after short-term skin contact. Of high toxicity after single ingestion.

Information on: phosphoric acid
Experimental/calculated data:
LD50 rat (oral): 3,300 mg/kg (OECD Guideline 401)

Irritation

Assessment of irritating effects:
May cause severe burns of the mouth and throat if orally ingested, as well as a danger of perforation of the oesophagus and the stomach.

Respiratory/Skin sensitization

Assessment of sensitization:
Based on available Data, the classification criteria are not met.

Germ cell mutagenicity

Assessment of mutagenicity:
Based on available Data, the classification criteria are not met.

Carcinogenicity

Assessment of carcinogenicity:
Based on available Data, the classification criteria are not met.

Reproductive toxicity

Assessment of reproduction toxicity:
Based on available Data, the classification criteria are not met.

Developmental toxicity

Assessment of teratogenicity:

Based on available Data, the classification criteria are not met.

Specific target organ toxicity (single exposure):

Assessment of STOT single:

Based on available Data, the classification criteria are not met.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

Based on available Data, the classification criteria are not met.

Aspiration hazard

No aspiration hazard expected.

12. Ecological Information

Ecotoxicity

Assessment of aquatic toxicity:

Toxic to aquatic life. There are no test results available for this product. Do not allow to enter drains or waterways.

Mobility

Assessment transport between environmental compartments:

No data available.

Persistence and degradability

Assessment biodegradation and elimination (H₂O):

No data available concerning biodegradation and elimination.

Bioaccumulation potential

Bioaccumulation potential:

No data available.

13. Disposal Considerations

Observe national and local legal requirements.

14. Transport Information

Domestic transport:

Packing group: II
ID number: UN 2922
Transport hazard class(es): 8, 6.1
Proper shipping name: CORROSIVE LIQUID, TOXIC, N.O.S. (contains PHOSPHORIC ACID, HYDROFLUORIC ACID)

Further information

Hazchem Code:2X
IERG Number:37

Sea transport

IMDG

Packing group: II
ID number: UN 2922
Transport hazard class(es): 8, 6.1
Marine pollutant: NO
Proper shipping name: CORROSIVE LIQUID, TOXIC, N.O.S. (contains PHOSPHORIC ACID, HYDROFLUORIC ACID)

Air transport

IATA/ICAO

Packing group: II
ID number: UN 2922
Transport hazard class(es): 8, 6.1
Proper shipping name: CORROSIVE LIQUID, TOXIC, N.O.S. (contains PHOSPHORIC ACID, HYDROFLUORIC ACID)

15. Regulatory Information

Other regulations

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

This is a tracked substance. The location and movement of this substance must be recorded at each stage of its lifecycle in accordance with the Health and Safety at Work (Hazardous Substances) Regulations 2017.

A certified handler is required for the handling of this substance.

HSNO Approval Number HSR002615
Metal Industry Products (Toxic [6.1], Corrosive) Group Standard 2017

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16. Other Information

Vertical lines in the left hand margin indicate an amendment from the previous version.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.