



ES WIRKT.

Safety Data Sheet according to Regulation (EC) No 1907/2006 (REACH)

Alu-Primer

Print date 23.03.2026
Revision date 20.02.2026
Version 2.0 (en)
replaces version of 03.11.2025 (1.3)

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

1.1 Product identifier

Trade name/designation Alu-Primer
Unique Formula Identifier UFI: FD12-K274-V00N-RG56

Hazard components

sulphuric-acid, sodium fluoride

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

Use of the substance/mixture

Primer for aluminum blacking

1.3 Details of the supplier of the safety data sheet

Supplier

Ballistol GmbH
Hauptstraße 20
DE-84168 Aham
Telephone 0874496990
Telefax 0874496996
E-mail info@ballistol.de
Website www.ballistol.de

Manufacturer

F.W.Klever
Hauptstraße 20
D-84168 Aham
Telephone +49 (0) 8744 96 99 10
Telefax + 49 (0) 8744 96 99 96
E-mail info@ballistol.de
Website www.ballistol.de

1.4 Emergency telephone number

Emergency CONTACT (24-Hour-Number): GBK GmbH +49 (0)6132-84463

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]	Classification procedure
Met. Corr. 1, H290	
Skin Irrit. 2, H315	
Eye Irrit. 2, H319	

Hazard statements for physical hazards

H290 May be corrosive to metals.

Hazard statements for health hazards

H315 Causes skin irritation.

H319 Causes serious eye irritation.

2.2 Label elements



ES WIRKT.

Safety Data Sheet according to Regulation (EC) No 1907/2006 (REACH)

Alu-Primer

Print date 23.03.2026
Revision date 20.02.2026
Version 2.0 (en)
replaces version of 03.11.2025 (1.3)

Labelling according to Regulation (EC) No 1272/2008 [CLP]

Hazard components

sulphuric-acid, sodium fluoride

Hazard pictograms



GHS05

Signal word

Warning

Hazard statements

H290 May be corrosive to metals.
H315 Causes skin irritation.
H319 Causes serious eye irritation.

Precautionary statements

P102 Keep out of reach of children.
P101 If medical advice is needed, have product container or label at hand.
P234 Keep only in original packaging.
P260 Do not breathe mist/vapours/spray.
P280 Wear protective gloves/protective clothing and eye protection/face protection.
P310 Immediately call a POISON CENTER/doctor.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P405 Store locked up.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501 Dispose of contents/container to hazardous or special waste collection point.

2.3 Other hazards

Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT and/or vPvB criteria according to REACH, Annex XIII.

SECTION 3: Composition / information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

Hazardous ingredients

CAS No	EC No	Index No	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL/ M/ ATE
7664-93-9	231-639-5	016-020-00-8	sulphuric-acid	1.9 < 5 weight-%	Met. Corr. 1; H290 Skin Corr. 1A; H314 Eye Dam. 1; H318	
7681-49-4	231-667-8	009-004-00-7	sodium fluoride	1 < 1.9 weight-%	Acute Tox. 3 ; H301 Eye Irrit. 2; H319 Skin Irrit. 2; H315; EUH032	



ES WIRKT.

Safety Data Sheet according to Regulation (EC) No 1907/2006 (REACH)

Alu-Primer

Print date	23.03.2026
Revision date	20.02.2026
Version	2.0 (en)
replaces version of	03.11.2025 (1.3)

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

The product contains fluoride and can penetrate the skin. Always inform your doctor about fluoride.

Following inhalation

Provide fresh air.

Following skin contact

Wash immediately with:

Call a physician immediately.

Water and soap

After contact with skin, take off immediately all contaminated clothing and wash immediately with plenty of water.

Consult a doctor if skin irritation persists.

In case of contact with skin, apply calcium gluconate solution immediately and leave to act. Then consult a doctor.

After eye contact

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Following ingestion

If swallowed seek medical advice immediately and show the doctor packing or label.

Do NOT induce vomiting.

Rinse mouth thoroughly with water.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms

Burning and pain of the eyes, skin and mucous membranes. If swallowed, strong irritant effect on the mouth and throat and risk of perforation of the esophagus.

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Fire extinguishing measures to the environment

5.2 Special hazards arising from the substance or mixture

No data available

5.3 Advice for firefighters

No data available

Additional information

Product is incombustible



ES WIRKT.

Safety Data Sheet according to Regulation (EC) No 1907/2006 (REACH)

Alu-Primer

Print date	23.03.2026
Revision date	20.02.2026
Version	2.0 (en)
replaces version of	03.11.2025 (1.3)

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Use personal protection equipment.

6.2 Environmental precautions

Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

For cleaning up

Absorb with liquid-binding material (acid binders, universal binders). Treat the absorbed material according to the section Disposal.

6.4 Reference to other sections

Disposal: see section 13

Safe handling: see section 7

Personal protection equipment: see section 8

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

If handled uncovered, arrangements with local exhaust ventilation have to be used.

Advices on general occupational hygiene

When using do not eat, drink, smoke, sniff.

Wash hands and face before breaks and after work and take a shower if necessary.

Wash contaminated clothing immediately.

Keep away from food and drink.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep/Store only in original container.

Unsuitable container/equipment material:

Metal

Further information on storage conditions

Recommended storage temperature: 20°C.

7.3 Specific end use(s)

Recommendation

Product for the treatment of metal surfaces

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

8.1 Control parameters

No data available



ES WIRKT.

Safety Data Sheet according to Regulation (EC) No 1907/2006 (REACH)

Alu-Primer

Print date 23.03.2026
Revision date 20.02.2026
Version 2.0 (en)
replaces version of 03.11.2025 (1.3)

* **8.2 Exposure controls**

* **Personal protection equipment**

Eye/face protection

safety goggles

* **Hand protection**

The choice of a suitable glove depends not only on the material, but also on other quality characteristics and varies from manufacturer to manufacturer.

Nitrile gloves ≥ 0.4 mm, breakthrough time ≥ 480 minutes in accordance with EN ISO 374

Since the product is a preparation of several substances, the resistance of glove materials is not predictable and must therefore be checked before use.

Gloves (acid-resistant)

The material of the gloves has to be impermeable and consistent for the substance. Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Body protection:

If skin contact may occur, wear impervious protective clothing for this solution.

Respiratory protection

Wear respiratory protection in case of insufficient ventilation.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state

liquid

Colour

clear

Odour

odourless

Safety relevant basis data

	Value	Method	Source, Remark
Odour threshold:	not determined		
Melting point/freezing point	not determined		
Boiling point or initial boiling point and boiling range	> 100 °C pressure 1013 mbar		
flammability	not determined		
Lower and upper explosion limit	not determined		
Flash point	> 100 °C		
Auto-ignition temperature	not determined		
Decomposition temperature	not determined		
pH	1- 2 (25°C)		
Viscosity	approx. 1 Pa*s (20°C)		
Solubility(ies)	Water solubility		easily soluble
Partition coefficient n-octanol/water (log value)	not determined		



ES WIRKT.

Safety Data Sheet according to Regulation (EC) No 1907/2006 (REACH)

Alu-Primer

Print date 23.03.2026
Revision date 20.02.2026
Version 2.0 (en)
replaces version of 03.11.2025 (1.3)

	Value	Method	Source, Remark
Vapour pressure	> 20 hPa (20°C)		
Density and/or relative density	approx. 1.06 g/cm ³ pressure 1013 mbar		
Relative vapour density	not determined		
particle characteristics	not determined		

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Corrosive to metals. Possibility of hazardous reactions.

10.2 Chemical stability

Stable under normal conditions

10.3 Possibility of hazardous reactions

Reactions with oxidizing agents, bases, peroxides

10.4 Conditions to avoid

Protect from heat. Formation of hazardous gases/vapours possible when heated or in case of fire. Avoid formation of aerosols.

10.5 Incompatible materials

Alkali (lye)
Oxidising agent
Peroxides
Metal, base

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Animal data

	Effective dose	Method, Evaluation	Source, Remark
Acute oral toxicity	LD50: 2140 mg/kg Species Rat	OECD 401	GESTIS Specification refers to sulfuric acid
	LD50: 148.5 mg/kg Species Rat		OPPTS 870 1100 Specification refers to sodium fluoride
Acute dermal toxicity	not determined		
Acute inhalation toxicity	not determined		



ES WIRKT.

Safety Data Sheet according to Regulation (EC) No 1907/2006 (REACH)

Alu-Primer

Print date 23.03.2026
Revision date 20.02.2026
Version 2.0 (en)
replaces version of 03.11.2025 (1.3)

Skin corrosion/irritation

Practical experience/human evidence

Causes skin irritation
Causes serious eye irritation

Animal data

Result / Evaluation	Method	Source, Remark
irritant / corrosive		

Serious eye damage/irritation

Animal data

Result / Evaluation	Method	Source, Remark
irritant / corrosive		

Sensitisation to the respiratory tract

not determined

Skin sensitisation

Practical experience/human evidence

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

Germ cell mutagenicity

not determined

Carcinogenicity

not determined

Reproductive toxicity

not determined

Overall Assessment on CMR properties

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

STOT-single exposure

STOT SE 1 and 2

Practical experience/human evidence

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

STOT-repeated exposure

Practical experience/human evidence

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

Aspiration hazard

Practical experience/human evidence

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

11.2 Information on other hazards

Other information

The mixture is classified as hazardous according to Regulation (EC) No. 1272/2008 [CLP]



ES WIRKT.

Safety Data Sheet according to Regulation (EC) No 1907/2006 (REACH)

Alu-Primer

Print date 23.03.2026
Revision date 20.02.2026
Version 2.0 (en)
replaces version of 03.11.2025 (1.3)

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

	Effective dose	Method,Evaluation	Source, Remark
Acute (short-term) fish toxicity	not determined		
Chronic (long-term) fish toxicity	not determined		
Acute (short-term) toxicity to crustacea	not determined		
Chronic (long-term) toxicity to aquatic invertebrate	not determined		
Acute (short-term) toxicity to algae and cyanobacteria	not determined		
Chronic (long-term) toxicity to aquatic algae and cyanobacteria	not determined		
Toxicity to other aquatic plants/organisms	not determined		
Toxicity to microorganisms	not determined		

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT and/or vPvB criteria according to REACH, Annex XIII.

12.6 Endocrine disrupting properties

	Effective dose	Method,Evaluation	Source, Remark
Endocrine disrupting properties			This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste codes/waste designations according to EWC/AVV

Waste code product	Waste name
110105 *	pickling acids



ES WIRKT.

Safety Data Sheet according to Regulation (EC) No 1907/2006 (REACH)

Alu-Primer

Print date 23.03.2026
Revision date 20.02.2026
Version 2.0 (en)
replaces version of 03.11.2025 (1.3)

Appropriate disposal / Package

Recycle sales packaging via DSD (Duales System Deutschland).

*** SECTION 14: Transport information**

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN number or ID number	UN 3264	UN 3264	UN 3264
14.2 UN proper shipping name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Schwefelsäure)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Schwefelsäure)	Corrosive liquid, acidic, inorganic, n.o.s. (Schwefelsäure)
14.3 Transport hazard class(es)	8	8	8
14.4 Packing group	III	III	III
14.5 Environmental hazards	-	-	-
14.6 Special precautions for user	No data available		
14.7 Maritime transport in bulk according to IMO instruments	No data available		

Land transport (ADR/RID)

UN number or ID number	UN 3264
UN proper shipping name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Schwefelsäure)
Transport hazard class(es)	8
Hazard label(s)	8
Classification code	C1
Packing group	III
Environmental hazards	-
Limited quantity (LQ)	5 L
Special provisions	274
Tunnel restriction code	E

Sea transport (IMDG)

UN number or ID number	UN 3264
UN proper shipping name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Schwefelsäure)
Transport hazard class(es)	8
Packing group	III
Environmental hazards	-
Limited quantity (LQ)	5 L
Marine pollutant	No
EmS	F-A, S-B



ES WIRKT.

Safety Data Sheet according to Regulation (EC) No 1907/2006 (REACH)

Alu-Primer

Print date 23.03.2026
Revision date 20.02.2026
Version 2.0 (en)
replaces version of 03.11.2025 (1.3)

Air transport (ICAO-TI / IATA-DGR)

UN number or ID number	UN 3264
UN proper shipping name	Corrosive liquid, acidic, inorganic, n.o.s. (Schwefelsäure)
Transport hazard class(es)	8
Packing group	III
Environmental hazards	-

SECTION 15: Regulatory information

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

No data available

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Abbreviations and acronyms

Met. Corr. 1: Corrosive to metals, Category 1
Acute Tox. 3, H301: Acute Toxicity (oral), Category 3
Skin Corr. 1A: Skin corrosion, Sub-category 1A
Skin Irrit. 2: Skin irritation, Category 2
Eye Dam. 1: Serious eye damage, Category 1
Eye Irrit. 2: Eye irritation, Category 2

Additional information

National and local regulations concerning chemicals shall be observed.
The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.

Relevant H- and EUH-phrases (Number and full text)

H290	May be corrosive to metals.
H301	Toxic if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.

Indication of changes

* Data changed compared with the previous version