

Safety Data Sheet

Aluminum Brightener 12 fl oz

Version 7.0

Revision Date 07/17/2015

Print Date 07/19/2015

SECTION 1. IDENTIFICATION

Commercial Product Name : Aluminum Brightener 12 fl oz
Product number : 8858000012
SDS-Identcode : 10037552
Product Use Description : Cleaning agent
Company : Wurth USA Inc.
93 Grant St.
07446 Ramsey, NJ
USA
Telephone : +1 201 825 27 10
Telefax : +1 201 825 16 43
Responsible/issuing person : prodsafe@wuerth.com
Emergency telephone number : +1 800 255 3924

SECTION 2. HAZARDS IDENTIFICATION**GHS Classification**

Acute toxicity (Oral) : Category 4
Acute toxicity (Inhalation) : Category 4
Acute toxicity (Dermal) : Category 3
Skin corrosion : Category 1A
Serious eye damage : Category 1

GHS Label element

Hazard pictograms :



Signal word : Danger

Hazard statements : H302 + H332 Harmful if swallowed or if inhaled
H311 Toxic in contact with skin.

Safety Data Sheet

Aluminum Brightener 12 fl oz

Version 7.0

Revision Date 07/17/2015

Print Date 07/19/2015

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

Precautionary statements

Prevention:

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

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

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.

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/shower.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.

P305 + P351 + P338 + P310 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 or doctor/ physician.

P363 Wash contaminated clothing before reuse.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Weight percent- Weight percent
ammonium bifluoride	1341-49-7	>= 90 - <= 100
phosphoric acid	7664-38-2	>= 10 - < 20
sulphuric acid	7664-93-9	>= 5 - < 10

Safety Data Sheet

Aluminum Brightener 12 fl oz

Version 7.0

Revision Date 07/17/2015

Print Date 07/19/2015

SECTION 4. FIRST AID MEASURES

- General advice : If you feel unwell, seek medical advice (show the label where possible). Take off contaminated clothing and shoes immediately. Never give anything by mouth to an unconscious person.
- Inhalation : If breathed in, move person into fresh air.
- Skin contact : First treatment with calcium gluconate paste. Immediately flush skin with large amounts of water. Get medical attention immediately.
- Eye contact : If easy to do, remove contact lens, if worn. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Ingestion : If swallowed, DO NOT induce vomiting. Call a physician or poison control centre immediately. If a person vomits when lying on his back, place him in the recovery position.

Notes to physician

- Treatment : Treat symptomatically and supportively.

SECTION 5. FIREFIGHTING MEASURES

- Form : liquid
- Flash point : Note: Not applicable
- Suitable extinguishing media : Water spray jet
Foam
Dry chemical
Carbon dioxide (CO₂)
- Specific hazards during firefighting : Do not use a solid water stream as it may scatter and spread fire.
Exposure to decomposition products may be a hazard to health.
Hazardous decomposition products may be formed under fire conditions (see section 10).

Safety Data Sheet

Aluminum Brightener 12 fl oz

Version 7.0

Revision Date 07/17/2015

Print Date 07/19/2015

- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.
Use personal protective equipment.
- Further information : Standard procedure for chemical fires.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
In the event of fire and/or explosion do not breathe fumes.
Use water spray to cool unopened containers.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Refer to protective measures listed in sections 7 and 8.
Ensure adequate ventilation, especially in confined areas.
Avoid inhalation of vapour or mist.
- Environmental precautions : Prevent further leakage or spillage if safe to do so.
- Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.
Clean contaminated surface thoroughly.

CERCLA Hazardous substances and corresponding RQs:

1341-49-7	100 lbs <i>final RQ</i>
7664-38-2	5,000 lbs <i>final RQ</i>
7664-93-9	1,000 lbs <i>final RQ</i>

SECTION 7. HANDLING AND STORAGE**Handling**

Safety Data Sheet

Aluminum Brightener 12 fl oz

Version 7.0

Revision Date 07/17/2015

Print Date 07/19/2015

Handling : For personal protection see section 8.
 Do not breathe vapours or spray mist.
 Avoid contact with skin and eyes.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.
 Dust explosion class : Not applicable

Storage

Requirements for storage areas and containers : Keep containers tightly closed in a dry, cool and well-ventilated place.
 Keep in an area equipped with acid resistant flooring.

Advice on common storage : Incompatible with bases.
 Incompatible with oxidizing agents.

Keep away from food, drink and animal feedingstuffs.

Other data : No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
Exposure Guidelines

Components	CAS-No.	List	Type:	Value	Update
ammonium bifluoride	1341-49-7	OSHA Z-1	TWA	2.5 mg/m3	2007-01-01
		ACGIH	TWA	2.5 mg/m3	2010-03-01
		OSHA P0	TWA	2.5 mg/m3	1989-01-19
phosphoric acid	7664-38-2	ACGIH	TWA	1 mg/m3	2013-03-01
		ACGIH	STEL	3 mg/m3	2013-03-01
		OSHA Z-1	TWA	1 mg/m3	1997-08-04
		NIOSH REL	TWA	1 mg/m3	2013-10-08
		NIOSH REL	ST	3 mg/m3	2013-10-08
sulphuric acid	7664-93-9	OSHA P0	TWA	1 mg/m3	1989-01-19
		OSHA P0	STEL	3 mg/m3	1989-01-19
		ACGIH	TWA	0.2 mg/m3	2007-01-01
		NIOSH REL	TWA	1 mg/m3	2013-10-08
		OSHA Z-1	TWA	1 mg/m3	1997-08-04
		OSHA P0	TWA	1 mg/m3	1989-01-19

Engineering measures : Provide adequate ventilation.

Safety Data Sheet

Aluminum Brightener 12 fl oz

Version 7.0

Revision Date 07/17/2015

Print Date 07/19/2015

- Eye protection : In case of splash hazard, please wear protective goggles.
- Hand protection
Glove material : butyl-rubber
Viton (R)
- Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer.
- Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
General industrial hygiene practice.
Avoid breathing vapours, mist or gas.
Avoid contact with skin, eyes and clothing.
When using do not eat, drink or smoke.
Wash hands before breaks and at the end of workday.
Wash contaminated clothing before re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Form : liquid
Physical state : liquid
- Colour : clear
Odour : acidic
Odour Threshold : No data available
Flash point : Note: Not applicable
- Ignition temperature : No data available
Thermal decomposition : No data available

Safety Data Sheet

Aluminum Brightener 12 fl oz

Version 7.0

Revision Date 07/17/2015

Print Date 07/19/2015

Lower explosion limit	: No data available
Upper explosion limit	: No data available
Flammability	: No data available
Molecular weight	: No data available
pH	: ca. 2.2 at 25 °C (77 °F) concentrate
Freezing point	: No data available
Boiling point/boiling range	: ca.110 °C(230 °F)
Vapour pressure	: ca.53.33 hPa at 20 °C (68 °F)
Relative vapour density	: No data available
Evaporation rate	: No data available
Density	: 1.110 g/cm ³
Relative density	: No data available
Bulk density	: Not applicable
Water solubility	: completely soluble
Partition coefficient: n-octanol/water	: No data available
Solubility in other solvents	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Volatile organic compounds (VOC) content	: 0 %

SECTION 10. STABILITY AND REACTIVITY

Materials to avoid	: Strong bases Oxidizing agents Bases
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Hazardous decomposition	: Build-up of dangerous/toxic fumes possible in cases of
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Safety Data Sheet

Aluminum Brightener 12 fl oz

Version 7.0

Revision Date 07/17/2015

Print Date 07/19/2015

products	fire/high temperature.
Hazardous reactions	: Note: No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute dermal toxicity	: Acute toxicity estimate Dose: 333.36 mg/kg Method: Expert judgement
Acute inhalation toxicity	: Acute toxicity estimate Exposure time: 4 h Dose: 3.4 mg/l Method: Expert judgement
Carcinogenicity	: No data is available on the product itself.
Reproductive toxicity	: No data is available on the product itself.
Teratogenicity	: No data is available on the product itself.

Component:

ammonium bifluoride	1341-49-7	<u>Acute oral toxicity</u> : LD50 Dose: > 50 - 300 mg/kg <u>Skin irritation</u> : Result: Causes burns.
phosphoric acid	7664-38-2	<u>Acute oral toxicity</u> : LD50 Rat Dose: ca. 2,600 mg/kg <u>Acute inhalation toxicity</u> : LC50 Dose: 3.846 mg/Exposure time: 1 h <u>Skin irritation</u> : Rabbit Result: Causes burns. <u>Eye irritation</u> : Classification: Corrosive Result: Risk of serious damage to eyes.
sulphuric acid	7664-93-9	<u>Acute oral toxicity</u> : LD50 Rat Dose: 2,140 mg/kg <u>Acute inhalation toxicity</u> : LC50 Rat

Safety Data Sheet

Aluminum Brightener 12 fl oz

Version 7.0

Revision Date 07/17/2015

Print Date 07/19/2015

Dose: 510 mg/m³ Exposure time: 2 h

Skin irritation: Classification: Causes burns.
Result: Extremely corrosive and destructive to tissue.

Eye irritation: Classification: Causes burns.
Result: Risk of serious damage to eyes.

Carcinogenicity:**OSHA**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

SECTION 12. ECOLOGICAL INFORMATION

Volatile organic compounds (VOC) content : 0 %

Additional ecological information : The product should not be allowed to enter drains, water courses or the soil.

Component:

phosphoric acid

7664-38-2

Acute and prolonged toxicity for aquatic invertebrates:
EC50

Species: Daphnia magna (Water flea)

Dose: > 100 mg/l

Exposure time: 48 h

Toxicity to algae:

EC50

Species: Desmodesmus subspicatus (green algae)

Dose: > 100 mg/l

Exposure time: 72 h

Toxicity to algae:

Safety Data Sheet

Aluminum Brightener 12 fl oz

Version 7.0

Revision Date 07/17/2015

Print Date 07/19/2015

NOEC
Species: Desmodesmus subspicatus (green algae)
Dose: 100 mg/l
Exposure time: 72 h

sulphuric acid

7664-93-9

Acute and prolonged toxicity for aquatic invertebrates:
EC50
Species: Daphnia magna (Water flea)
Dose: > 100 mg/l
Exposure time: 48 h

Toxicity to algae:
EC50
Species: Desmodesmus subspicatus (green algae)
Dose: > 100 mg/l
Exposure time: 72 h

SECTION 13. DISPOSAL CONSIDERATIONS

Adequate disposal : In accordance with local and national regulations.
Do not dispose of together with household waste.

SECTION 14. TRANSPORT INFORMATION**DOT 49 CFR**

ID No : UN 3265
Proper shipping name : Corrosive liquid, acidic, organic, n.o.s.
(sulphuric acid, phosphoric acid)
Class : 8
Packing group : II
Labels : 8
Emergency Response : 153
Guidebook Number

TDGR

ID No : UN 3265
Proper shipping name : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
(sulphuric acid, phosphoric acid)
Class : 8
Packing group : II
Labels : 8

Safety Data Sheet

Aluminum Brightener 12 fl oz

Version 7.0

Revision Date 07/17/2015

Print Date 07/19/2015

ICAO/IATA-DGR

ID No : UN 3265
Proper shipping name : Corrosive liquid, acidic, organic, n.o.s.
(sulphuric acid, phosphoric acid)
Class : 8
Packaging group : II
ICAO-Labels : 8
Packing instruction (cargo aircraft) : 855
Packing instruction (passenger aircraft) : 851
Packing instruction (passenger aircraft) : Y840
Environmentally hazardous : no

IMDG-Code

ID No : UN 3265
Description of the goods : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
(sulphuric acid, phosphoric acid)
Class : 8
Packaging group : II
IMDG-Labels : 8
EmS Number 1 : F-A
EmS Number 2 : S-B
Marine pollutant : no

SECTION 15. REGULATORY INFORMATION

SARA 311/312 Hazards : Acute Health Hazard

CERCLA Reportable Quantity : Calculated RQ exceeds reasonably attainable upper limit.

100 lbs

PENN RTK

US. Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323)

Components	CAS-No.
ammonium bifluoride	1341-49-7
water	7732-18-5

Safety Data Sheet

Aluminum Brightener 12 fl oz

Version 7.0

Revision Date 07/17/2015

Print Date 07/19/2015

phosphoric acid	7664-38-2
sulphuric acid	7664-93-9

MASS RTK

US. Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of Massachusetts Regulations Section 670.000)

Components	CAS-No.
ammonium bifluoride	1341-49-7
phosphoric acid	7664-38-2
sulphuric acid	7664-93-9

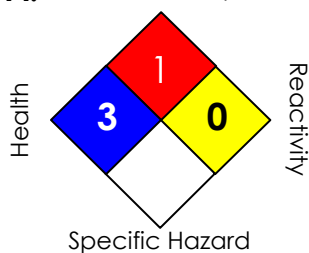
NJ RTK

US. New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5)

Components	CAS-No.
ammonium bifluoride	1341-49-7
water	7732-18-5
phosphoric acid	7664-38-2
sulphuric acid	7664-93-9

California Prop. 65

: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16. OTHER INFORMATION
Further information
NFPA: Flammability

HMIS III:

HEALTH	3
FLAMMABILITY	1
PHYSICAL	0

 0 = Insignificant, 1 = Slight,
 2 = Moderate, 3 = High, 4 = Extreme

Safety Data Sheet

Aluminum Brightener 12 fl oz

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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