

*

1 Identification

Product identifier
Trade name: ALUMINATE ALUMINUM BRIGHTENER 5-GALLON

Product Code: 9711

Manufacturer/Supplier:

 TIFCO Industries, Inc.
 21400 Northwest Freeway
 Cypress, TX 77429
 281-571-6000

Emergency telephone number:
 800-255-3924

*

2 Hazard(s) identification

Classification of the substance or mixture


GHS08 Health hazard

Carc. 1A H350 May cause cancer.



GHS05 Corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction.

GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms


GHS05



GHS07



GHS08

Signal word Danger

Hazard-determining components of labeling:

 Sulfuric acid
 Proprietary Ingredient
 Proprietary Surfactant Blend
 Ammonium Bifluoride

Hazard statements

 Causes severe skin burns and eye damage.
 May cause an allergic skin reaction.
 May cause cancer.

Precautionary statements

 Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.

(Contd. on page 2)

US

Trade name: ALUMINATE ALUMINUM BRIGHTENER 5-GALLON

(Contd. of page 1)

Do not breathe dusts or mists.
 Wash thoroughly after handling.
 Contaminated work clothing must not be allowed out of the workplace.
 Wear protective gloves/protective clothing/eye protection/face protection.
 If swallowed: Rinse mouth. Do NOT induce vomiting.
 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 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/doctor.
 IF exposed or concerned: Get medical advice/attention.
 Specific treatment (see on this label).
 If skin irritation or rash occurs: Get medical advice/attention.
 Wash contaminated clothing before reuse.
 Store locked up.
 Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system:**NFPA ratings (scale 0 - 4)****HMIS-ratings (scale 0 - 4)**

HEALTH	3	Health = *3
FIRE	0	Fire = 0
REACTIVITY	0	Reactivity = 0

Other hazards**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.

*

3 Composition/information on ingredients
Chemical characterization: Mixtures**Description:** Mixture of the substances listed below with nonhazardous additions.**Dangerous components:**

	Proprietary Ingredient	≤2.5%
	Proprietary Surfactant Blend	≤2.5%
7664-93-9	Sulfuric acid	2.5-10%
111-76-2	2-butoxyethanol	≤2.5%
1341-49-7	Ammonium Bifluoride	≤2.5%

*

4 First-aid measures
Description of first aid measures**General information:** Immediately remove any clothing soiled by the product.**After inhalation:**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

(Contd. on page 3)

Trade name: ALUMINATE ALUMINUM BRIGHTENER 5-GALLON

(Contd. of page 2)

After eye contact:

Rinse opened eye for several minutes under running water. Then consult a doctor.

Maintain an ANSI approved eye wash station and safety shower in the immediate vicinity capable of delivering tepid water (60-100 degrees F) for 15 minutes.

After swallowing: Drink copious amounts of water and provide fresh air. Immediately call a doctor.

Information for doctor:

Most important symptoms and effects, both acute and delayed No further relevant information available.

Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

Extinguishing media

Suitable extinguishing agents: Use fire fighting measures that suit the environment.

Special hazards arising from the substance or mixture During heating or in case of fire poisonous gases are produced.

Advice for firefighters

Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

Wear protective equipment (safety goggles, rubber gloves). Keep unprotected persons away.

Environmental precautions: Dilute with plenty of water.

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralizing agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

Information about protection against explosions and fires: Keep respiratory protective device available.

Conditions for safe storage, including any incompatibilities**Storage:**

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Keep receptacle tightly sealed.

Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

Additional information about design of technical systems: No further data; see item 7.

(Contd. on page 4)

Trade name: ALUMINATE ALUMINUM BRIGHTENER 5-GALLON

(Contd. of page 3)

Control parameters**Components with limit values that require monitoring at the workplace:**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

7664-93-9 Sulfuric acid

PEL	Long-term value: 1 mg/m ³
REL	Long-term value: 1 mg/m ³
TLV	Long-term value: 0.2* mg/m ³ *as thoracic fraction

111-76-2 2-butoxyethanol

PEL	Long-term value: 240 mg/m ³ , 50 ppm Skin
REL	Long-term value: 24 mg/m ³ , 5 ppm Skin
TLV	Long-term value: 97 mg/m ³ , 20 ppm BEI

Ingredients with biological limit values:**111-76-2 2-butoxyethanol**

BEI	200 mg/g creatinine Medium: urine Time: end of shift Parameter: Butoxyacetic acid with hydrolysis
-----	--

Additional information: The lists that were valid during the creation were used as basis.

Exposure controls**Personal protective equipment:****General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.
 Immediately remove all soiled and contaminated clothing.
 Wash hands before breaks and at the end of work.
 Store protective clothing separately.
 Avoid contact with the eyes.
 Avoid contact with the eyes and skin.

Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
 Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

(Contd. on page 5)

Trade name: ALUMINATE ALUMINUM BRIGHTENER 5-GALLON

(Contd. of page 4)

For the permanent contact gloves made of the following materials are suitable:

Chemical Resistant, neoprene, nitrile, butyl rubber

Eye protection:

Tightly sealed goggles

Body protection:**Boots** Chemical Resistant, Rubber**Apron** Chemical Resistant; Rubber.

*

9 Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance:

Form: Liquid**Color:** Blue**Odor:** Acidic**pH-value at 20 °C (68 °F):** <2.5

Change in condition

Melting point/Melting range: Undetermined.**Boiling point/Boiling range:** 100 °C (212 °F)**Flash point:** Not Determined.**Flammability (solid, gaseous):** Not applicable.**Decomposition temperature:** Not determined.**Auto igniting:** Product is not selfigniting.**Danger of explosion:** Product does not present an explosion hazard.

Explosion limits:

Lower: Not determined.**Upper:** Not determined.**Vapor pressure at 20 °C (68 °F):** 23 hPa (17.3 mm Hg)**Density:** Not determined.**Relative density** Not determined.**Vapor density** Not determined.**Evaporation rate** Not determined.

Solubility in / Miscibility with

Water: Fully miscible.

Solvent content:

Organic solvents: 2.4 %**VOC content:** 2.43 %**Other information** No further relevant information available.

10 Stability and reactivity

Reactivity No further relevant information available.

(Contd. on page 6)

Trade name: ALUMINATE ALUMINUM BRIGHTENER 5-GALLON

(Contd. of page 5)

Chemical stability**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.**Possibility of hazardous reactions** No dangerous reactions known.**Conditions to avoid** No further relevant information available.**Incompatible materials:** No further relevant information available.**Hazardous decomposition products:** No dangerous decomposition products known.

*

11 Toxicological information**Information on toxicological effects****Acute toxicity:****Primary irritant effect:****on the skin:** Caustic effect on skin and mucous membranes.**on the eye:**

Strong caustic effect.

Strong irritant with the danger of severe eye injury.

Sensitization: Sensitization possible through skin contact.**Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Corrosive

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

Carcinogenic categories**IARC (International Agency for Research on Cancer)**

7664-93-9	Sulfuric acid	1
111-76-2	2-butoxyethanol	3
1341-49-7	Ammonium Bifluoride	3

NTP (National Toxicology Program)

7664-93-9	Sulfuric acid	K
-----------	---------------	---

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

*

12 Ecological information**Toxicity****Aquatic toxicity:** No further relevant information available.**Persistence and degradability** No further relevant information available.**Behavior in environmental systems:****Bioaccumulative potential** No further relevant information available.**Mobility in soil** No further relevant information available.**Additional ecological information:****General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Results of PBT and vPvB assessment**PBT:** Not applicable.**vPvB:** Not applicable.

(Contd. on page 7)

US

Printing date 11/01/2023

Reviewed and Updated on: 05/05/2021

Trade name: ALUMINATE ALUMINUM BRIGHTENER 5-GALLON

Other adverse effects No further relevant information available.

(Contd. of page 6)

13 Disposal considerations

Waste treatment methods
Recommendation:

Must not be disposed of together with household garbage. Dispose of in accordance with local and regional regulations.

Uncleaned packagings:
Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

UN-Number

DOT, ADR, IMDG, IATA

UN3265

UN proper shipping name

DOT

Corrosive liquid, acidic, organic, n.o.s. (Sulfuric acid, Ammonium hydrogendifluoride)

ADR

3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (SULFURIC ACID, AMMONIUM BIFLUORIDE)

IMDG, IATA

CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (SULFURIC ACID, AMMONIUM BIFLUORIDE)

Transport hazard class(es)

DOT



Class

8 Corrosive substances

Label

8

ADR, IMDG, IATA



Class

8 Corrosive substances

Label

8

Packing group

DOT, ADR, IMDG, IATA

II

Environmental hazards:

Not applicable.

Special precautions for user

Warning: Corrosive substances

Hazard identification number (Kemler code): 80

Segregation groups

Acids

Stowage Category

B

Stowage Code

SW2 Clear of living quarters.

(Contd. on page 8)



Safety Data Sheet

acc. to OSHA HCS

Printing date 11/01/2023

Reviewed and Updated on: 05/05/2021

Trade name: ALUMINATE ALUMINUM BRIGHTENER 5-GALLON

(Contd. of page 7)

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

Transport/Additional information:
DOT
Quantity limitations

On passenger aircraft/rail: 1 L

On cargo aircraft only: 30 L

ADR
Excepted quantities (EQ)

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

IMDG
Limited quantities (LQ)

1L

Excepted quantities (EQ)

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

UN "Model Regulation":

UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (SULFURIC ACID, AMMONIUM BIFLUORIDE), 8, II

*

15 Regulatory information

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

Sara

Section 355 (extremely hazardous substances):

7664-93-9 Sulfuric acid

Section 313 (Specific toxic chemical listings):

7664-93-9 Sulfuric acid

111-76-2 2-butoxyethanol

Non-ionic Surfactant

TSCA (Toxic Substances Control Act):

All components of this product are listed on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30.

Proposition 65
Chemicals known to cause cancer:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

Carcinogenic categories
EPA (Environmental Protection Agency)

111-76-2 2-butoxyethanol

NL

(Contd. on page 9)

US

Trade name: ALUMINATE ALUMINUM BRIGHTENER 5-GALLON

(Contd. of page 8)

TLV (Threshold Limit Value established by ACGIH)

7664-93-9	Sulfuric acid	A2
111-76-2	2-butoxyethanol	A3
1341-49-7	Ammonium Bifluoride	A4

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).**Hazard pictograms**

GHS05 GHS07 GHS08

Signal word Danger**Hazard-determining components of labeling:**

Sulfuric acid
 Proprietary Ingredient
 Proprietary Surfactant Blend
 Ammonium Bifluoride

Hazard statements

Causes severe skin burns and eye damage.
 May cause an allergic skin reaction.
 May cause cancer.

Precautionary statements

Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Do not breathe dusts or mists.
 Wash thoroughly after handling.
 Contaminated work clothing must not be allowed out of the workplace.
 Wear protective gloves/protective clothing/eye protection/face protection.
 If swallowed: Rinse mouth. Do NOT induce vomiting.
 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 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/doctor.
 IF exposed or concerned: Get medical advice/attention.
 Specific treatment (see on this label).
 If skin irritation or rash occurs: Get medical advice/attention.
 Wash contaminated clothing before reuse.
 Store locked up.
 Dispose of contents/container in accordance with local/regional/national/international regulations.

National regulations:**Additional classification according to Decree on Hazardous Materials:**

Carcinogenic hazardous material group III (dangerous).

Information about limitation of use:

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

(Contd. on page 10)

US



Safety Data Sheet

acc. to OSHA HCS

Printing date **11/01/2023**

Reviewed and Updated on: 05/05/2021

Trade name: ALUMINATE ALUMINUM BRIGHTENER 5-GALLON**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

(Contd. of page 9)

16 Other information

DISCLAIMER: IMPORTANT: The information presented herein is believed to be reliable, and relates to the specific material listed and may not be valid for such material combined with other materials outside the scope of intended usage. No warranty of guarantee is made and it remains the user's responsibility to confirm by other investigation as to safe material application. The manufacturer shall not be liable for damage to person or property resulting from the use of this product. It is the customer's responsibility to investigate any potential allergic or health problems of all users.

Department issuing SDS: Chemical Department**Date of preparation / last revision** 11/01/2023 / 4*** Data compared to the previous version altered.**

US