



ALUGEL 30 HEP

Version 4.0

Revision Date 10/08/2024

SECTION 1. IDENTIFICATION

Product identifier

Trade name : **ALUGEL 30 HEP**

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

Use of the Sub-
stance/Mixture : Manufacture of plastics products
Polymer additive
Stabilizer

Recommended restrictions
on use : None known.

Manufacturer or supplier's details

Company name of supplier : Baerlocher Production USA LLC
Address : 5890 Highland Ridge Drive
Cincinnati OH 45232
Telephone : (513) 604-2327
Emergency telephone num-
ber : CHEMTREC: 1-800-424-9300 (inside U.S.) / 1-703 527-3887
(outside U.S.) Collect calls are accepted
E-mail address : Hotline.PS@baerlocher.com
Responsible/issuing person : Product Safety Department

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Combustible dust

GHS label elements

Signal word: Warning

Hazard Statement: May form combustible dust concentrations in air.

Other hazards

Health injuries are not known or expected under normal use.
Applies to granules (R), pastilles (TX) and flakes (SMS):
The product is not a dust explosion risk as supplied; however the build-up of fine dust can lead to a risk of dust explosions.
Applies to powder and remaining product forms:
Dust can form an explosive mixture in air.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance
Chemical nature : Aluminium salt of C16 - C18 fatty acids.
Substance name : Fatty acids, C16-18 (even numbered), aluminium salts

CAS-No. : Not Assigned

Components

Chemical name	CAS-No.	Concentration (% w/w)
Fatty acids, C16-18 (even numbered), aluminum salts	Not Assigned	100



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SECTION 4. FIRST AID MEASURES

If inhaled	:	Move to fresh air.
In case of skin contact	:	Wash off with plenty of water.
In case of eye contact	:	Rinse with plenty of water.
If swallowed	:	Clean mouth with water and drink afterwards plenty of water.
Most important symptoms and effects, both acute and delayed	:	No information available.
Notes to physician	:	Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Water spray Foam Carbon dioxide (CO ₂) Dry chemical Sand
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during fire-fighting	:	Smoke and fumes, toxic.
Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Avoid dust formation. Remove all sources of ignition.
Environmental precautions	:	Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.
Methods and materials for containment and cleaning up	:	Use mechanical handling equipment. Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling	:	Take precautionary measures against static discharges. Keep away from sources of ignition - No smoking. Avoid formation and buildup of dust.
Conditions for safe storage	:	Store at room temperature in the original container. Keep in a dry place.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

inert or nuisance dust	50 Million particles per cubic foot Value type (Form of exposure): TWA (total dust) Basis: OSHA Z-3
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	15 mg/m ³ Value type (Form of exposure): TWA (total dust) Basis: OSHA Z-3
	5 mg/m ³ Value type (Form of exposure): TWA (respirable fraction) Basis: OSHA Z-3
	15 Million particles per cubic foot Value type (Form of exposure): TWA (respirable fraction) Basis: OSHA Z-3
Dust, nuisance dust and particulates	10 mg/m ³ Value type (Form of exposure): PEL (Total dust) Basis: CAL PEL
	5 mg/m ³ Value type (Form of exposure): PEL (respirable dust fraction) Basis: CAL PEL
Particulates not otherwise regulated	10 mg/m ³ Value type (Form of exposure): PEL (Total dust) Basis: CAL PEL
	5 mg/m ³ Value type (Form of exposure): PEL (respirable dust fraction) Basis: CAL PEL
	Basis: NIOSH REL
particulates not otherwise regulated	15 mg/m ³ Value type (Form of exposure): TWA (total dust) Basis: OSHA Z-1
	5 mg/m ³ Value type (Form of exposure): TWA (respirable fraction) Basis: OSHA Z-1
Particulates not otherwise regulated	15 mg/m ³ Value type (Form of exposure): TWA (Total) Basis: OSHA P0
	5 mg/m ³ Value type (Form of exposure): TWA (Respirable fraction) Basis: OSHA P0
Particles (insoluble or poorly soluble) not otherwise specified	10 mg/m ³ Value type (Form of exposure): TWA (Inhalable particulate matter) Basis: ACGIH
	3 mg/m ³ Value type (Form of exposure): TWA (Respirable particulate matter)



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Basis: ACGIH

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
particulates	Not Assigned	TWA (total dust)	15 mg/m ³	OSHA Z-1
		TWA (respirable fraction)	5 mg/m ³	OSHA Z-1
		TWA (Total)	15 mg/m ³	OSHA P0
		TWA (Respirable fraction)	5 mg/m ³	OSHA P0
		TWA (Inhalable particulate matter)	10 mg/m ³	ACGIH
		TWA (Respirable particulate matter)	3 mg/m ³	ACGIH
dust	Not Assigned	TWA (total dust)	50 Million particles per cubic foot	OSHA Z-3
		TWA (total dust)	15 mg/m ³	OSHA Z-3
		TWA (respirable fraction)	5 mg/m ³	OSHA Z-3
		TWA (respirable fraction)	15 Million particles per cubic foot	OSHA Z-3

Engineering measures : Local exhaust

Personal protective equipment

Respiratory protection : P1 filter respirator for inert particles

Hand protection

Directive : Protective gloves complying with EN 374.

Eye protection

: Safety glasses

Skin and body protection

: Long sleeved clothing

Protective measures

: antistatic shoes

Hygiene measures

: When using do not eat or drink.

Do not smoke.

Wash hands before breaks and at the end of workday.

Shower or bathe at the end of working.

Keep working clothes separately.

Handle in accordance with good industrial hygiene and safety practice.

Regular cleaning of equipment, work area and clothing.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

: solid

Colour

: off-white

Odour

: without

Odour Threshold

: No data available



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pH	:	No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	The product is not flammable.
Upper explosion limit	:	No data available
Vapour pressure	:	< 3,000 hPa (50 °C)
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	1 kg/m ³ (20 °C)
Bulk density	:	No data available
Solubility(ies) Water solubility	:	No data available
Partition coefficient: n-octanol/water	:	log Pow: 7.94 (20 °C)
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No decomposition if stored and applied as directed.
Viscosity Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Particle size	:	No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Stable at normal ambient temperature and pressure.
Chemical stability	:	Stable under normal storage and handling temperatures.
Possibility of hazardous reactions	:	Risk of dust explosion.
Conditions to avoid	:	Avoid dust formation. Keep away from heat and sources of ignition.
Incompatible materials	:	Strong oxidizing agents Strong acids Halogenated compounds
Hazardous decomposition products	:	No decomposition if used as directed.



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SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Components:

Fatty acids, C16-18 (even numbered), aluminum salts:

- Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 423
GLP: yes
Assessment: The substance or mixture has no acute oral toxicity
- Acute inhalation toxicity : LC50 (Rat): > 5.15 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
GLP: yes
Assessment: The substance or mixture has no acute inhalation toxicity
- Acute dermal toxicity : Remarks: Not classified due to lack of data.

Skin corrosion/irritation

Components:

Fatty acids, C16-18 (even numbered), aluminum salts:

- Species: reconstructed human epidermis (RhE)
Method: OECD Test Guideline 431
Result: Not corrosive
GLP: yes
Remarks: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation

Components:

Fatty acids, C16-18 (even numbered), aluminum salts:

- Species: Rabbit
Result: No eye irritation
Method: OECD Test Guideline 405
GLP: yes
Remarks: Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation

Components:

Fatty acids, C16-18 (even numbered), aluminum salts:

- Test Type: LLNA
Species: Mouse



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Method: OECD Test Guideline 429
Result: Does not cause skin sensitisation.
GLP: yes
Remarks: Based on available data, the classification criteria are not met.

Remarks: Respiratory sensitisation

Remarks: Not classified due to lack of data.

Germ cell mutagenicity

Components:

Fatty acids, C16-18 (even numbered), aluminum salts:

Genotoxicity in vitro : Test Type: Mutagenicity (Salmonella typhimurium - reverse mutation assay)
Species: Bacteria
Method: OECD Test Guideline 471
Result: negative
GLP: yes

: Test Type: In vitro gene mutation study in mammalian cells
Species: mouse lymphoma cells
Method: OECD Test Guideline 476
Result: negative
GLP: yes

: Remarks: Read-across (Analogy)

: Test Type: Mutagenicity (in vitro mammalian cytogenetic test)
Species: CHL
Method: OECD Test Guideline 473
Result: negative
GLP: yes

Genotoxicity in vivo : Remarks: Read-across (Analogy)

Test Type: In vivo micronucleus test
Species: Rat
Application Route: Oral
Method: OECD Test Guideline 474
Result: negative
GLP: yes
Remarks: Based on available data, the classification criteria are not met.

Carcinogenicity

Product:

Remarks: This product contains no known or suspected carcinogens listed by NTP or OSHA at or above reportable quantities.



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Components:

Fatty acids, C16-18 (even numbered), aluminum salts:

Remarks: Not classified due to lack of data.

Reproductive toxicity

Components:

Fatty acids, C16-18 (even numbered), aluminum salts:

Effects on fertility : Remarks: Read-across (Analogy)

Test Type: Screening for reproductive/developmental toxicity
Species: Rat
Application Route: Oral
General Toxicity - Parent: NOAEL: 1,000 mg/kg body weight
Fertility: NOAEL Mating/Fertility: 1,000 mg/kg body weight
Early Embryonic Development: NOAEL: 1,000 mg/kg body weight
Method: OECD Test Guideline 422
GLP: yes

Remarks: Read-across (Analogy)

Test Type: Two-generation study
Species: Rat
Application Route: Oral
General Toxicity - Parent: NOAEL: 94.82 mg/kg body weight
Fertility: NOAEL Mating/Fertility: 367.1 mg/kg body weight
Early Embryonic Development: NOAEL: 115.1 mg/kg body weight
Method: OECD Test Guideline 416
GLP: yes
Remarks: Based on available data, the classification criteria are not met.

Effects on foetal development : Remarks: Read-across (Analogy)

Species: Rat
Application Route: Oral
Teratogenicity: NOAEL: 1,500 mg/kg body weight
Embryo-foetal toxicity: NOAEL: 1,500 mg/kg body weight
Method: standardised international/national methodology
GLP: no

Remarks: Read-across (Analogy)

Species: Rat
Application Route: Oral
General Toxicity Maternal: NOAEL: 1,564.7 mg/kg body weight
Teratogenicity: NOAEL: 1,564.7 mg/kg body weight
Embryo-foetal toxicity: NOAEL: 1,564.7 mg/kg body weight



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Method: standardised international/national methodology
GLP: no
Remarks: Based on available data, the classification criteria are not met.

STOT - single exposure

Components:

Fatty acids, C16-18 (even numbered), aluminum salts:

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure

Components:

Fatty acids, C16-18 (even numbered), aluminum salts:

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity

Components:

Fatty acids, C16-18 (even numbered), aluminum salts:

Species: Rat
NOAEL: > 5,000 mg/kg
Application Route: Oral
Exposure time: 18 w

Species: Mouse
NOAEL: > 4176,5 mg/kg food
Application Route: Oral
Exposure time: 40 d

Aspiration toxicity

Components:

Fatty acids, C16-18 (even numbered), aluminum salts:

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

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Fatty acids, C16-18 (even numbered), aluminum salts:



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- Toxicity to fish : LL50 (Danio rerio (zebra fish)): > 100 mg/l
Exposure time: 96 h
Test Type: semi-static test
Method: OECD Test Guideline 203
GLP: yes
Remarks: Value referred to the Water accumulated fraction (WAF).
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h
Test Type: semi-static test
Method: OECD Test Guideline 202
GLP: yes
Remarks: Value referred to the Water accumulated fraction (WAF).
- Toxicity to algae : Remarks: Read-across (Analogy)

EC50 (Raphidocelis subcapitata (freshwater green alga)): > 100 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes
- Toxicity to fish (Chronic toxicity) : Remarks: Read-across (Analogy)

Remarks: No toxicity at the limit of solubility
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: Read-across (Analogy)

Remarks: No toxicity at the limit of solubility
- Toxicity to bacteria : NOEC (activated sludge): 42.7 mg/l
Exposure time: 29 d
Test Type: static test
Method: standardised international/national methodology
GLP: yes

Ecotoxicology Assessment

- Acute aquatic toxicity : Based on available data, the classification criteria are not met.

This product has no known ecotoxicological effects.
- Chronic aquatic toxicity : Based on available data, the classification criteria are not met.

This product has no known ecotoxicological effects.

Persistence and degradability

Product:



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Biodegradability : Biodegradation: 40 %
Exposure time: 28 d
Method: closed bottle test according to OECD 301 D

Components:

Fatty acids, C16-18 (even numbered), aluminum salts:

Biodegradability : aerobic
Inoculum: activated sludge
Result: Readily biodegradable.
Biodegradation: 81.2 %
Exposure time: 28 d
Method: OECD Test Guideline 301B
GLP: yes

Bioaccumulative potential

Components:

Fatty acids, C16-18 (even numbered), aluminum salts:

Bioaccumulation : Remarks: Read-across (Analogy)

Species: Fish
Bioconcentration factor (BCF): 36 - 215
Exposure time: 56 d
Remarks: Does not bioaccumulate.

Partition coefficient: n-octanol/water : Remarks: Not applicable

Mobility in soil

Components:

Fatty acids, C16-18 (even numbered), aluminum salts:

Distribution among environmental compartments : Remarks: No data available

Other adverse effects

Product:

Results of PBT and vPvB assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Components:

Fatty acids, C16-18 (even numbered), aluminum salts:

Results of PBT and vPvB assessment : Based on available data, the classification criteria are not met.
Endocrine disrupting potential : No information available.



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SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

- Waste from residues : Dispose in accordance with local, state and federal regulations. Consult an expert on the disposal of recovered material. Ensure disposal in compliance with government requirements and ensure conformity to local disposal regulations.
- Contaminated packaging : Empty containers must be handled with care due to product residue.

SECTION 14. TRANSPORT INFORMATION

National Regulations

DOT

Not regulated as a dangerous good

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

SECTION 15. REGULATORY INFORMATION

- SARA 313** : This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372:

Components	CAS-No.	Wt.
not applicable	Not Assigned	

The components of this product are reported in the following inventories:

- EINECS listed
- TSCA listed
- DSL listed
- AICS listed



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ENCS	listed
ECL	listed
PICCS	listed
CHINA	listed

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative



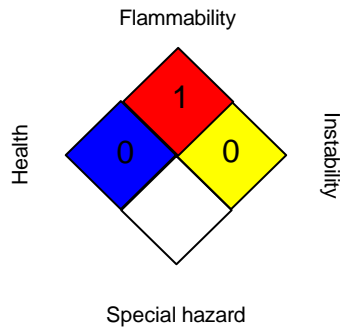
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Further information

NFPA:



HMIS III:

HEALTH	0
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

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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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