

Aleal 598 SC Part B

1	PRODUCT AND COMPANY IDENTIFICATION
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Product Identifier: Aleal 598 SC Part B
Common Name: Organic Acid
SDS Number: A55
Revision Date: 6/5/2015
Version: 1
Chemical Family: Acid
Product Description: Aqueous Organic acid solution
Supplier Details: Coatings For Industry, Inc.
 319 Township Line Road
 Souderton, PA 18964

Emergency: Infotrac
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2	HAZARDS IDENTIFICATION
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Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):
 Health, Serious Eye Damage/Eye Irritation, 2 A

GHS Label elements, including precautionary statements

GHS Signal Word: **WARNING**

GHS Hazard Pictograms:



GHS Hazard Statements:

H319 - Causes serious eye irritation

GHS Precautionary Statements:

P264 - Wash _ thoroughly after handling.
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.
 P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
 P337+313 - Get medical advice/attention.

3	COMPOSITION/INFORMATION OF INGREDIENTS
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Ingredients:

Cas#	%	Chemical Name
*****	40-60%	Trade Secret
7732-18-5	40-60%	Water

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4	FIRST AID MEASURES
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Inhalation: If inhaled, remove to fresh air. Give oxygen or artificial respiration if needed. Get immediate medical attention.

Skin Contact: Remove contaminated clothing and footwear immediately, and wash before reuse. Discard clothing and footwear which cannot be decontaminated.
Promptly flush skin with water until all chemical is removed.
Get medical attention if irritation develops and persists.

Eye Contact: Immediately flush eyes with large amounts of water for at least 15 minutes, lifting eyelids occasionally to facilitate irrigation.
Then remove contact lenses, if easily removeable, and continue irrigation for not less than 15 minutes. Get medical attention if irritation develops.

Ingestion: Never give anything by mouth to an unconscious person. Drink large quantities of water. Do NOT induce vomiting or attempt chemical neutralization. Get prompt, qualified medical attention.

5	FIRE FIGHTING MEASURES
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Hazardous decomposition products formed under fire conditions. Exposure to decomposition products may be a hazard to health. Wear self contained breathing apparatus and other protective clothing.
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.

Extinguishing Media: Dry chemical; carbon dioxide; foam; water spray for large fires.

6	ACCIDENTAL RELEASE MEASURES
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If material is spilled: Evacuate nonessential personnel. Use sawdust, vermiculite, fuller's earth or other absorbent material to soak up spill then neutralize with soda ash, lime or sodium bicarbonate. Then flush area with water.

Waste disposal method: Neutralize any remaining liquid with lime or sodium bicarbonate. Waste must be disposed of in accordance with federal, state, and local environmental control regulations.

7	HANDLING AND STORAGE
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Handling Precautions: Avoid contact with eyes, skin, or clothing. Consider normal working hygiene. Employee education and training in the safe use and handling of this product are required under the OSHA Hazard Communication Standard.

Storage Requirements: Store in area where it will not come into contact with strong alkalis or oxidizing agents.
Protect from freezing.

8	EXPOSURE CONTROLS/PERSONAL PROTECTION
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Personal Protective Equipment: Personal protective equipment

Eye/face protection: Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact: Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min

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Material tested: Dermatril (KCL 740 / Aldrich Z677272, Size M)

Splash contact: Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min
 Material tested: Dermatril (KCL 740 / Aldrich Z677272, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection: impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure: Do not let product enter drains.

Contains no substances with occupational exposure limit values.

Ventilation requirements: Exhaust ventilation sufficient to remove spray mist.

Additional protective measures: Safety showers and eyewash stations should be available. Educate and train employees in safe use of product.

9	PHYSICAL AND CHEMICAL PROPERTIES
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Appearance:	Clear	Odor:	slightly sweet odor
Physical State:	Liquid	Solubility:	Infinite
Spec Grav./Density:	1.2-1.3	Percent Volatile:	97% by Volume
Boiling Point:	104 C		
pH:	2.5 or lower		

10	STABILITY AND REACTIVITY
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Chemical Stability:	Product is stable under normal conditions.
Conditions to Avoid:	Contact with alkalis or strong reducing or oxidizing agents, nitrates.
Materials to Avoid:	Alkalis, Strong Oxidizing Agents, Nitrates Potentially explosive reaction with metal nitrates, strong bases, and oxidizers. Incompatible with reducing agents. Corrosive to brass, copper, zinc, aluminum and their alloys, lead, cast iron and steel (not stainless steel).
Hazardous Decomposition:	Combustion will produce carbon dioxide and, possibly toxic chemicals such as carbon monoxide.
Hazardous Polymerization:	Will not occur.

11	TOXICOLOGICAL INFORMATION
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Trade Secret [40-60%]

Information on toxicological effects

Acute toxicity:
 LD50 Oral - rat - 11,700 mg/kg (OECD Test Guideline 401)
 mouse - 5,400 mg/kg (OECD Test Guideline 401)

Inhalation: no data available

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LD50 Dermal - rat - > 2,000 mg/kg (OECD Test Guideline 402)

(other routes of administration)

LD50: 725 mg/kg Application Route: i.p. Species: rat

LD50: 940 mg/kg Application Route: i.p. Species: mouse

Skin corrosion/irritation: Skin - rabbit Result: Mild skin irritation (OECD Test Guideline 404)
May cause skin irritation in susceptible persons.

Serious eye damage/eye irritation: Eyes - rabbit Result: Irritating to eyes. (OECD Test Guideline 405)

Respiratory or skin sensitisation:

Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

Maximisation Test: Species: guinea pig Result: Does not cause skin sensitization. Method: OECD Test Guideline 406

Germ cell mutagenicity: This product would not be expected to be genotoxic at physiological concentrations. It was not mutagenic in *Salmonella typhimurium*, and did not induce chromosome aberrations in cultured Chinese hamster fibroblast cells

Carcinogenicity:

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.

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

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.

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.

Reproductive toxicity: This product did not cause reproductive effects when tested in experimental animals. The sodium salt did not cause birth defects in rats. When given to rats at 1.2% in the diet over 2 generations, it did not affect reproduction. It did not affect litter size or survival of mice with prenatal exposure to up to 5% in the diet.

Specific target organ toxicity - single exposure: no data available

Specific target organ toxicity - repeated exposure: Persons with pre-existing eye, skin, respiratory, or allergic conditions may be more sensitive.

Aspiration hazard: no data available

Additional Information:

RTECS: GE7350000

Vomiting, Diarrhoea, Damage to tooth enamel., Dermatitis, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12**ECOLOGICAL INFORMATION**

Trade Secret [40-60%]

Information on ecological effects

Toxicity:

Toxicity to fish mortality LC50 - *Leuciscus idus melanotus* - 440 mg/l - 48 h. (OECD Test Guideline 203)

Toxicity to daphnia and static test - *Daphnia magna* (Water flea) - 1,535 mg/l - 24 h. other aquatic invertebrates

Toxicity to algae - Species: *Scenedesmus quadricauda* (Green algae) - 425 mg/l Exposure time: 168 h static test

Toxicity to Bacteria - Species: *Pseudomonas putida* - > 10,000 mg/l Exposure time: 16 h

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Persistence and degradability: 97 % Testing period: 28 d Method: OECD Test Guideline 301B
 Readily biodegradable.

COD: 750 ± 50 mg O₂/g
 BOD₅: 625 ± 50 mg O₂/g

Bioaccumulative potential: The product is miscible in water and readily biodegradable in both water and soil. Accumulation is not expected.

Mobility in soil: no data available

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).
 Other adverse effects: no data available

13	DISPOSAL CONSIDERATIONS
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Waste Disposal Method
 Waste disposal should be in accordance with existing federal, state and local environmental control laws

Empty Container Precautions
 Do not heat or cut container with electric or gas torch. Recondition or dispose of empty container in accordance with governmental regulations. Do not reuse empty container without proper cleaning. Label precautions also apply to this container when empty.

14	TRANSPORT INFORMATION
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Non-hazardous for air, sea and road freight.

15	REGULATORY INFORMATION
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Component (CAS#) [%] - CODES

Trade Secret [40-60%] TSCA

Water (7732-18-5) [40-60%] TSCA

Regulatory CODE Descriptions

TSCA = Toxic Substances Control Act

16	OTHER INFORMATION
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NOTICE: This information is presented in good faith and believed to be accurate as of the effective date below. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. Coatings For Industry, Inc. assumes no responsibility for personal injury or property damage to vendees, users, or third parties caused by the material. Such vendees or users assume all risks associated with the use of the material. Regulatory requirements are subject to change and may differ from one location to another: it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The preceding specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations.