



SI3104
SDS Version 3.0

www.acimaterials.com

SAFETY DATA SHEET

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

Product Identifier: SI3104

Other Means of Identification: Stretchable Insulator

Recommended use of the chemical and restrictions on use: None identified

Supplier:

ACI Materials, Inc.
44 Castilian Drive
Goleta, CA 93117
1 (805) 324-4486

Emergency Phone Number:

For emergency health, safety and environmental information, call 1 (805) 570-1071.

Section 2: Hazards Identification

Classification of the substance or mixture:

Flammable liquids
Serious Eye Damage / Eye Irritation

Category 4
Category 2



Symbols:

Signal word: Warning

Hazard Statements:

H227 Combustible liquid
H302 + H332 Harmful if swallowed or if inhaled.

H319 Causes serious eye irritation.

Precautionary Statements:

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P264 Wash face, hands, and any exposed 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.

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

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

P305 +P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice / attention.

P370 + P376 In case of fire: Use CO2, dry chemical, or foam for extinction.

P403 + P235 Store in a well-ventilated place. Keep cool.

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

Describe any hazards not otherwise classified: None known.

Section 3: Composition / Information on ingredients

Chemical Name	CAS Number	Concentration, %
Ethyl phenyl ketone	93-55-0	10 – 20
Benzyl Alcohol	100-51-6	10 – 20

Remaining components are non-hazardous or present in amounts below reportable limits. Exact percentage values for components are proprietary in accordance with 29 CFR 1910.1200(i).

Section 4: First-aid measures

Description of First aid measures

Inhalation: Remove from exposure, lie down. Move to fresh air. If not breathing, give artificial respiration.

Skin contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Obtain medical attention.

Eye contact: Rinse immediately with plenty of water also under the eyelids, for at least 15 minutes. Get medical attention.

Ingestion: Never give anything by mouth to an unconscious person. Clean mouth with water. Get medical attention.

Most important symptoms/effects, acute and delayed: Breathing difficulties. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Indication of immediate medical attention and special treatment needed: None known. Treat symptomatically.

Section 5: Fire-fighting measures

Suitable extinguishing media: Water spray. Dry chemical. Carbon Dioxide. Alcohol resistant foam. Cool closed containers exposed to fire with water spray.

Unsuitable extinguishing media: Do not use sharp water jet; may spread fire.

Specific hazards arising from the mixture: Combustible material. Flammable. Containers may explode when heated.

Hazardous Combustion Products: Carbon monoxide. Carbon dioxide.

Specific protective equipment and precautions for fire-fighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6: Accidental release measures

Personal precautions, protective equipment, and emergency procedures: Remove all sources of ignition. Take precautionary measures against static discharges. Ensure adequate ventilation. Avoid breathing vapors, dust, mist or gas.

Methods and materials for containment and 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. Remove all sources of ignition. Do not let product enter drains. Spills of material which could reach surface waters must be reported to the United States Coast Guard National Response Center's toll-free phone number (800) 424-8802.

Section 7: Handling and storage

Precautions for safe handling: Avoid contact with skin and eyes. Do not breathe vapors or spray mist. Keep away from open flames, hot surfaces and sources of ignition.

Conditions for safe storage, including any incompatibilities: Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep away from heat and sources of ignition. Keep containers tightly closed in a dry, cool and well-ventilated place.

Section 8: Exposure controls/personal protection

Control Parameters: Exposure limits are listed below, when known.

Components with workplace control parameters:

Material	CAS No.	Value	Control Parameter	Basis
Benzyl Alcohol	100-51-6	TWA	10 ppm	USA. Workplace Environmental Exposure Levels (WEEL)

Appropriate engineering controls: None under normal use conditions. Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment:

General Information: Ensure eye wash station and safety shower are readily available.

Individual protection measures:

Eye/face protection: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin protection: Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory protection: If engineering controls do not maintain airborne concentrations below recommended exposure limits, an approved respirator should be worn.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

Section 9: Physical and chemical properties

Appearance: White paste.

Odor: Aromatic.

Odor Threshold: No data available

pH: No data available

Melting point/freezing point: No data available

Initial boiling point and boiling range: No data available.

Flash point: 87°C (188.6°F) (Lowest flash point value of any component.)

Evaporation rate: No data available

Flammability (solid, gas): No data available

Upper/lower flammability or explosive limits: No data available

Vapor pressure: No data available

Vapor density: No data available

Relative density: 1.2g/mL

Solubility: No data available

Partition coefficient: n-octanol/water: No data available

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Viscosity: 43000 mPa*s.

Other Information: Amounts listed are typical and do not represent a specification.

Section 10: Stability and reactivity

Reactivity: None known, based on information available.

Chemical stability: Stable under normal conditions. Test for peroxide formation before distillation or evaporation. Test for peroxide formation or discard after 1 year.

Possibility of hazardous reactions: None under normal processing.

Conditions to avoid: Incompatible products. Keep away from open flames, hot surfaces and sources of ignition.

Incompatible materials: Strong oxidizing agents. Strong bases.

Hazardous decomposition products: Carbon Dioxide, Carbon Monoxide.

Section 11: Toxicological information

Information on the likely routes of exposure: Product test data is not available. Toxicological information appears in this section when the constituent data is available.

Numerical measures of toxicity:

Component	LD50 Oral - Rat	LD50 Dermal - Rabbit	LC50 Inhalation
Ethyl Phenyl Ketone	4,490 mg/kg	4,490 µL/kg	No data available
Benzyl Alcohol	1,230 mg/kg	No data available	4h -> 4.178 mg/l

Delayed and immediate effects as well as chronic effects from short and long-term exposure:

Skin / Irritation: No data available.

Serious eye damage / eye irritation:

Benzyl Alcohol: Causes eye irritation (OECD Test Guideline 405).

Respiratory or Skin Sensitization: No data available.

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.

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.

Symptoms / effects, both acute and delayed: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Section 12: Ecological Information

Ecotoxicity (aquatic and terrestrial, where available): Ecotoxicological information appears in this section when such data is available for the components of the mixture.

Toxicity:

Benzyl Alcohol:

Toxicity to fish: static test LC50 - Pimephales promelas (fathead minnow) - 460 mg/l - 96 h (US-EPA)

Toxicity to daphnia and other aquatic invertebrates Immobilization EC50 - Daphnia magna (Water flea) - 230 mg/l - 48 h (OECD Test Guideline 202)

Toxicity to algae static test ErC50 - Pseudokirchneriella subcapitata (green algae) - 700 mg/l - 72 h (OECD Test Guideline 201)

Persistence and Degradability

Ethyl Phenyl Ketone – Insoluble in water. May persist based on information available.

Benzyl Alcohol

Biodegradability Aerobic – Exposure time 14 d
Result: 92 – 96% - Readily biodegradable.
(OECD Test Guideline 301C)
Aerobic – Exposure time 21 d
Result: 95 – 97% - Readily biodegradable
(OECD Test Guideline 301A)

Biochemical Oxygen Demand (BOD) 1,550 mg/g
Remarks: (Lit.)

Theoretical oxygen demand 2,515 mg/g
Remarks: (IUCLID)

Ratio BOD/ThBOD 62%
Remarks: (Lit.)

Bioaccumulation /Accumulation: No information available.

Mobility: Is not likely mobile in the environment due its low water solubility.

Section 13: Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Section 14: Transport Information

DOT Not regulated

IATA Not regulated

IMDG/IMO Not regulated

Section 15: Regulatory Information

Safety, health and environmental regulations / legislation specific for the product:

U.S. Federal and State regulations / legislation:

This SDS has been prepared in accordance with the hazard criteria of the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

U.S. Superfund Amendments and Reauthorization Act (SARA) – SARA Section 313.

This product does not contain the following toxic chemical subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know act of 1986 and 40 CFR 372.

SARA 311/312 Hazard Categories:

Benzyl Alcohol

Acute Health Hazard, Chronic health hazard.

U.S. TSCA Inventory (TSCA):

All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

California Proposition 65:

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

Section 16: Other Information

Revision Date: June 6, 2023

Nomenclature:

ACGIH = American Conference of Governmental Industrial Hygienists

BCF = Bioconcentration Factor

C = Ceiling Value

EC50 = Effective Concentration

LC = Lethal concentration

LD = Lethal dose

ND = No Data

NIOSH = The National Institute for Occupational Safety and Health

NOEC = No Observed Effect Concentration

Pow = Partition Coefficient

REL = Recommended Exposure Limit

STEL = Short Term Exposure Limit

TWA = Time weighted average

Other Information

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Disclaimer Notice

This product is a complex mixture of liquids and solids. This SDS was prepared based upon the SDS of the raw materials used in the mixture.

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