

SAFETY DATA SHEET

Issue Date 6-June-2018

Revision Date 19-Feb-2021

Version 2

SECTION 1: Product And Company Identification

1.1. Identification

Trade name : Ace Cem liquid (Acid Copolymer 50% Solids)

Other Means of Identification
Control # : 06-032

Product Code : ACL001
2-Butenedioic acid (2z)-, polymer
with 2-methylenebutanedioic acid
and 2-propenoic acid

1.2. Recommended use and restrictions on use

Recommended Use Organic Process Chemical.

1.3. Supplier

Rident Denpro Pvt Ltd.
40, vrindavan nagar , behind
jain temple , Borananda
Jodhpur-342008 India
Website: www.rident.in
E-mail: info@rident.in

1.4. Emergency telephone number

+919414201171

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

Skin Irritation	Category 2
Eye Irritation	Category 2B
Sensitization, Skin	Category 1

Signal Word

Warning

Hazard Statements

Causes eye irritation.
Causes skin irritation.
May cause an allergic skin reaction.



Appearance white to yellow liquid
odor

Physical State Liquid

Odor Mild characteristic

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray.
Contaminated work clothing must not be allowed out of the workplace.

Precautionary Statements – Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation occurs: Get medical advice/attention.

IF ON SKIN: Wash with plenty of soap and water. If irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

Precautionary Statements – Storage/Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Other Hazards

Unstable/Reactive upon depletion of inhibitor. **Check inhibitor levels periodically.**

SECTION 3: Composition/Information On Ingredients

Chemical Name	CAS No	Weight-%
Copolymer	35464-54-1	30.0-60.0
Water	7732-18-5	30.0-60.0

Note: this material contains an inhibitor (HQ, MEHQ, BHT, etc) at <1%. The type and amount meet product specifications. Contact manufacturer for exact concentration and details on inhibitor level maintenance.

SECTION 4: First Aid Measures

First Aid Measures

General Advice	Provide this SDS to medical personnel for treatment.
Eye Contact	If product gets in the eyes, flush with lukewarm water for at least 15 minutes. If irritation occurs, contact a physician.
Skin Contact	If irritation occurs and product is on the skin, rinse thoroughly with lukewarm water, followed by a thorough washing of the affected area with soap and water. If irritation, redness or swelling persists, contact a physician immediately.
Inhalation	Remove to fresh air. Seek immediate medical attention if you feel unwell.
Ingestion	If ingested, do not induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get medical attention immediately if you feel unwell.

Most Important Symptoms and Effects, both Acute and Delayed

Symptoms

Eyes: May be irritating to the eyes. Symptoms of overexposure may include redness, itching, irritation and watering.

Skin: May be irritating to skin in some sensitive individuals, especially after prolonged and/or repeated contact.

Inhalation: This product is not expected to be an inhalation hazard.

Ingestion: Not expected to cause any harmful effects. Ingestion of large amounts may be irritating; may cause nausea, headache, vomiting, and/or diarrhea.

Indication of any Immediate Medical Attention and Special Treatment Needed**Note to Physicians Chemical**

Treat symptomatically after thorough decontamination

SECTION 5: Fire-Fighting Measures**Suitable Extinguishing Media**

Carbon dioxide, Dry chemical, and water

Unsuitable Extinguishing Media

None listed.

Specific Hazards Arising from the Chemical

Potential dust explosion hazard. When heated, flammable vapors are emitted, that when mixed with air can burn or be explosive.

Hazardous Combustion Products Organic oxides and oxides of carbon.

Protective Equipment and Precautions for Firefighters

Avoid extinguishing methods which may generate dust clouds. Water stream can disperse dust into air producing a fire hazard and possible explosion hazard if exposed to ignition source. Firefighters should wear self-contained breathing apparatus.

SECTION 6: Accidental Release Measures**Personal Precautions, Protective Equipment and Emergency Procedures****Personal Precautions**

Before cleaning any spill or leak, individuals must wear appropriate Personal Protective Equipment that is specified in section 8. Deny entry to all unprotected individuals. Remove any contaminated clothing and wash thoroughly before reuse.

Environmental Precautions

See Section 12 for additional ecological information. Keep spills and cleaning runoffs out of municipal sewers and open bodies of water.

Methods and Material for Containment and Cleaning Up**Methods for Containment**

Prevent further leakage or spillage if safe to do so. Dike and contain spill with inert material (e.g. sand or earth).

Methods for Cleaning Up

Maximize ventilation (open doors and windows) and secure all sources of ignition. Use good, local ventilation with a minimum capture velocity of 100 ft/min (30 m/min) at point of monomer release. Place into appropriate closed container(s) for disposal in accordance with local, state and federal regulations. Wash all affected areas with plenty of warm water and soap.

SECTION 7: Handling and Storage

Precautions for Safe Handling

Advice on Safe Handling

Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. Keep away from heat, sparks, and flame. Keep container closed after each use. Do NOT use localized heat source such as band heaters to heat/melt product. Do NOT use steam. Hot boxes or hot rooms are recommended for heating the product, which can be set at a maximum temperature of 60°C/140°F. Avoid contact with skin, eyes and clothing. Use good personal hygiene and housekeeping.

After use, wash hands and exposed skin with soap and water. Do not eat, drink, or smoke while handling product. Observe precautions found on label.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions

Store containers in a cool, dry location, away from direct sunlight, heat, sparks, flame, other light sources, or sources of intense heat. Keep container closed to prevent water absorption and contamination. Observe all label precautions until the container is cleaned, reconditioned, or destroyed.

Incompatible Materials

Strong oxidizers, strong reducers, free radical initiators, inert gases, oxygen scavengers.

SECTION 8. Exposure Controls/Personal Protection

Exposure Guidelines

The following information is given as general guidance

Appropriate Engineering Controls

Engineering Controls

When working with large quantities of product provide adequate ventilation (e.g., local exhaust ventilation, fans). Ensure that an eyewash station, sink or washbasin is available in case of exposure to eyes. Use good local exhaust at processing equipment including buffers, sanders, grinders, and polishers.

Individual Protection Measures, such as Personal Protective Equipment
Eye/Face Protection

Wear safety glasses, chemical goggles when splashing is possible, when dealing with this material. If necessary, refer to U.S. OSHA 29 CFR §1910.133, or other appropriate governing standard. Ensure that an eyewash station, sink, or washbasin is available in case of exposure to eyes.

Skin and Body Protection

Avoid skin contact. Wear chemical resistant gloves for routine industrial use. If necessary, refer to U.S. OSHA 29 CFR §1910.138, or other appropriate governing standards. No special body protection is required under typical circumstances of use and handling.

Respiratory Protection

A respirator should be worn whenever workplace conditions warrant a respirator's use. Use a NIOSH-approved air-purifying respirator with organic vapor cartridge or canister, a dust mask may also be necessary based on the workplace conditions. If necessary, use only respiratory protection authorized per U.S. OSHA's requirement in 29 CFR §1910.134 or other appropriate governing standard.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. An eyewash station and a safety shower are recommended. Food, beverages, and tobacco products should not be carried, stored, or consumed where this material is in use. Wash hands thoroughly before eating, drinking, or smoking.

SECTION 9. Physical and Chemical Properties

Information on Basic Physical and Chemical Properties

Physical State	Liquid	Odor	Mild characteristic odor
Appearance	White to yellow liquid	Odor Threshold	Not determined
Color	White to yellow liquid		
<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>	
pH	Not established		
Melting Point/Freezing Point	Not established		
Boiling Point/Boiling Range	~100° C / 212° F		
Flash Point	>200° C / >392° F		
Evaporation Rate	Not established		
Flammability (Solid, Gas)	Not applicable		
Upper Flammability Limits	Not established		
Lower Flammability Limit	Not established		
Vapor Pressure	Not established		
Vapor Density	Not established		
Specific Gravity	Not established		
Water Solubility	Miscible		
Solubility in Other Solvents	Not established		
Partition Coefficient	Not established		
Autoignition Temperature	Not established		
Decomposition Temperature	Not established		
Kinematic Viscosity	Not established		
Dynamic Viscosity	~220 cps @ 25° C/77° F		
Explosive Properties	Not established		
Oxidizing Properties	Not established		

SECTION 10. Stability and Reactivity

<u>Reactivity</u>	Non-reactive
<u>Chemical Stability</u>	Stable
<u>Possibility of Hazardous Reactions</u>	
Hazardous Polymerization	Will not occur.
<u>Conditions to Avoid</u>	Heating above 240° C, 464 ° F; High light intensity >10000 lux
<u>Incompatible Materials</u>	Strong oxidizing agents, strong reducing agents
<u>Hazardous Decomposition Products</u>	Organic acids and oxides of carbon when burned.

SECTION 11. Toxicological Information**Product Information**

Eye Contact	May be irritating to the eyes. Symptoms of overexposure may include redness, itching, irritation, and watering.
Skin Contact	May be irritating to skin in some sensitive individuals, especially after prolonged and/or repeated contact.
Inhalation	This product is not expected to be an inhalation hazard.

Ingestion Not expected to cause any harmful effects. Ingestion of large amounts may be irritating; may cause nausea, headache, vomiting, and/or diarrhea.

Component Information Not available

Information on Physical, Chemical and Toxicological Effects

Symptoms Please see section 4 of this SDS for symptoms.

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure

Germ Cell Mutagenicity This product is not reported to produce mutagenic effects in humans.

Carcinogenicity This product does not contain any carcinogens as listed by OSHA, IARC, or NTP.

Reproductive Toxicity This product is not reported to produce reproductive effects in humans.

Developmental Toxicity This product is not reported to produce embryotoxic effects in humans.

Teratogenicity This product is not reported to cause teratogenic effects in humans.

Chronic Toxicity This product is not reported to cause chronic toxicity effects in humans.

Target Organ Effects None listed.

Numerical Measures of Toxicity

This product has NOT been tested on animals to obtain toxicology data. There may be toxicology data for the components of the product, which are found in scientific literature. These data have not been presented in this document.

SECTION 12. Ecological Information

Ecotoxicity

There are no specific data available for this product; however, very large releases of this product may be harmful or fatal to exposed aquatic life.

Component Information Not available

Persistence and Degradability Not determined

Bioaccumulation Not determined

Mobility Not determined

Other Adverse Effects Not determined

SECTION 13. Disposal Considerations

Waste Treatment Methods

Disposal of Wastes

Dispose of properly in accordance with Federal, State, and Local regulations.

Contaminated Packaging

Reuse of empty drums or containers is not recommended. Employees should be advised of the potential hazards, due to residual flammable material, associated with empty containers. Dispose of all empty containers properly, in accordance with Federal, State and Local regulations.

SECTION 14. Transport Information

Note	Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.
DOT	Non-hazardous - not regulated
IATA	Non-hazardous – safe for air travel
IMDG	Not regulated

SECTION 15. Regulatory Information

International Inventories

TSCA	Listed
DSL	Not Listed
NDSL	Listed
EINECS	Not Listed

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

US Federal Regulations

This product complies with the appropriate sections of the Food and Drug Administration's 21 CFR subchapter G (Cosmetics).

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

SARA 313

Not determined

US State Regulations

Not Listed

U.S. State Right-to-Know Regulations

Not Determined

SECTION 16. Other Information

<u>NFPA</u>	Health Hazards 2	Flammability 1	Instability 0	Special Hazards Not determined
<u>HMIS</u>	Health Hazards 2	Flammability 1	Physical Hazards 0	Personal Protection Safety Glasses, Gloves

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Revision Note	New format

Disclaimer

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.

MATERIAL SAFETY DATA SHEET

SECTION 1: Identification

1.1. Identification

Trade Name : Ace-Cem Powder

1.2. Recommended use and restrictions on use

No additional information available

1.3. Supplier

Rident Denpro Pvt Ltd.
40-41, Vrandavan Nagar Behind Jain Temple , Boranada
, Jodhpur 342012 India
T +91-9414201171
info@rident.in

1.4. Emergency telephone number

No additional information available

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Not classified

2.2. GHS Label elements, including precautionary statements

GHS US labelling

No labelling applicable

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
SILICON OXIDE, AMORPHOUS	CAS-No.: 7631-86-9	30 – 45	Not classified
ALUMINUM FLUORIDE	CAS-No.: 7784-18-1	30 – 40	Not classified
STRONTIUM OXIDE	CAS-No.: 1314-11-0	20 – 30	Not classified

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

No additional information available

4.2. Most important symptoms and effects (acute and delayed)

No additional information available

4.3. Immediate medical attention and special treatment, if necessary

No additional information available

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

No additional information available

5.2. Specific hazards arising from the chemical

No additional information available

5.3. Special protective equipment and precautions for fire-fighters

No additional information available

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

No additional information available

For emergency responders

No additional information available

6.2. Environmental precautions

No additional information available

6.3. Methods and material for containment and cleaning up

No additional information available

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

No additional information available

7.2. Conditions for safe storage, including any incompatibilities

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Ace Cem
No additional information available
SILICON OXIDE, AMORPHOUS (7631-86-9)
No additional information available
STRONTIUM OXIDE (1314-11-0)

No additional information available

ALUMINUM FLUORIDE (7784-18-1)

No additional information available

8.2. Appropriate engineering controls

No additional information available

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Colour	: white
Odour	: Mixture contains one or more component(s) which have the following odour:
Odour threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

No additional information available

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

SILICON OXIDE, AMORPHOUS (7631-86-9)

LD50 oral rat	3160 mg/kg Source: TOMES; HAZARDTEXT
LD50 dermal rabbit	> 2000 mg/kg
ATE US (oral)	3160 mg/kg bodyweight
ATE US (dust,mist)	5.01 mg/l/4h

STRONTIUM OXIDE (1314-11-0)	
LD50 oral rat	1030 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 425(Acute Oral Toxicity: Up-and-Down Procedure), 95% CL: 550 - 1750

ALUMINUM FLUORIDE (7784-18-1)	
LC50 Inhalation - Rat	> 0.53 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Guideline: EPA OPPTS 870.1300 (Acute inhalation toxicity), Guideline: other:, Guideline:other:, Remarks on results: other:

Skin corrosion/irritation : Not classified
 Serious eye damage/irritation : Not classified
 Respiratory or skin sensitisation : Not classified
 Germ cell mutagenicity : Not classified
 Carcinogenicity : Not classified

SILICON OXIDE, AMORPHOUS (7631-86-9)	
IARC group	3 - Not classifiable

Reproductive toxicity : Not classified
 STOT-single exposure : Not classified
 STOT-repeated exposure : Not classified
 Aspiration hazard : Not classified
 Viscosity, kinematic : No data available

SECTION 12: Ecological information

12.1. Toxicity

SILICON OXIDE, AMORPHOUS (7631-86-9)	
LC50 - Fish [1]	5000 mg/l Source: IUCLID
EC50 - Crustacea [1]	> 5000 mg/l Source: ECHA

STRONTIUM OXIDE (1314-11-0)	
LC50 - Fish [1]	> 56.34 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	> 56.3 mg/l Test organisms (species): Daphnia magna
NOEC (chronic)	21 mg/l Test organisms (species): Daphnia magna Duration: '3 wk'

ALUMINUM FLUORIDE (7784-18-1)	
LC50 - Fish [1]	> 300 mg/l Source: ECHA
EC50 - Crustacea [1]	> 7.6 mg/l Source: ECHA

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

No additional information available

SECTION 14: Transport information

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name (DOT)	: Not applicable
Proper Shipping Name (TDG)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable

14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : Not applicable

TDG

Transport hazard class(es) (TDG) : Not applicable

IMDG

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

14.4. Packing group

Packing group (DOT) : Not applicable
Packing group (TDG) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

DOT
No data available

TDG
No data available

IMDG
No data available

IATA
No data available

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

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
SILICON OXIDE, AMORPHOUS	7631-86-9	Present	Active	

Name	CAS-No.	Listing	Commercial status	Flags
STRONTIUM OXIDE	1314-11-0	Present	Active	
ALUMINUM FLUORIDE	7784-18-1	Present	Active	

International regulations

CANADA

SILICON OXIDE, AMORPHOUS (7631-86-9)

Listed on the Canadian DSL (Domestic Substances List)

STRONTIUM OXIDE (1314-11-0)

Listed on the Canadian DSL (Domestic Substances List)

ALUMINUM FLUORIDE (7784-18-1)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

SILICON OXIDE, AMORPHOUS (7631-86-9)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

ALUMINUM FLUORIDE (7784-18-1)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

US State regulations

No additional information available

SECTION 16: Other information

According to Federal Register / Vol. 77, No. 58 / Monday, March 26,
2012 / Rules and Regulations Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.