

SAFETY DATA SHEET

Product: 590-S
Revision Date: 5/8/2023

1. MATERIAL IDENTIFICATION

Product Name: Crystalbond 590-S Stripper

Product Description: White Powder, Odorless
Product Use: Solvent Powder Concentrate

Manufacturer: Aremco Products, Inc.
707-B Executive Blvd.
Valley Cottage, NY 10989

Telephone: 845-268-0039
Emergency Phone: 845-268-0039 or Infotrac (24/7) 800-535-5053

2. HAZARDS IDENTIFICATION

GHS Classification:

Skin Corrosion/Irritation	Category 1B
Eye Damage/Irritation	Category 1
STOT SE, Lungs	Category 3
Metal Corrosion	Category 1

GHS Symbol:



GHS Signal Word:

Danger

GHS Hazard Determining Components:

Silicic Acid, Disodium Salt
Sodium Tripolyphosphate

GHS Hazard Statements for Health Hazards:

H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H290	May be corrosive to metals.

GHS Precautionary Statements - Prevention:

P261	Avoid breathing dust
P262	Do not get in eyes, on skin, or on clothing.
P264	Wash hands thoroughly after handling
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves. Wear eye and face protection.
P405	Store locked up.

GHS Precautionary Statements – Response:

P301+P330+P331	IF SWALLOWED: Rinse mouth. Do not induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Immediately remove all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338	IF IN EYES: Remove contact lenses, if present and easy to do. Rinse cautiously with water for several minutes.

3. COMPOSITION

Chemical	CAS No.	EC No.	Concentration	GHS Product Identifier
Silicic Acid, Disodium Salt	6834-92-0	229-912-9	80.0-95.0%	H314 Skin Corrosion/Irritation, Cat 1B H318 Eye Damage/Irritation, Cat 1 H335 STOT, SE; Respiratory Tract Irritation, Cat 3 H290 Metal Corrosion, Cat 1
Sodium Tripolyphosphate	7758-29-4	231-838-7	5.0-15.0%	H314 Skin Corrosion/Irritation, Cat 2 H318 Eye Damage/Irritation, Cat 2A H335 STOT, SE; Respiratory Tract Irritation, Cat 3

4. FIRST AID MEASURES

Eye Exposure:

Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek immediate medical attention, preferably with an ophthalmologist. If a physician is not immediately available, eye irrigation should be continued for an additional 15 minutes.

Skin Exposure:

Immediately wipe excess material off skin with a dry cloth then wash with plenty of soap and water for at least 5 minutes. Seek medical attention if irritation develops or persists. Remove contaminated clothing and shoes and clean thoroughly before re-use.

Inhalation:

Remove from immediate source of exposure and assure that victim is breathing. If not breathing, administer cardio-pulmonary resuscitation (CPR). If breathing is difficult, administer oxygen if available. Seek medical attention.

Ingestion:

If swallowed, do not induce vomiting. If victim is conscious and alert, give 1-2 glasses of water to drink. Do not give anything by mouth to an unconscious person. Seek medical attention immediately. Do not leave victim unattended. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. Vomiting may occur spontaneously. If vomiting occurs and the victim is conscious, give water to further dilute the chemical.

5. FIRE FIGHTING MEASURES

Flammable Limits:

This material is non-combustible.

Extinguishing Media:

This material is compatible with all extinguishing media.

Special Fire Fighting Procedures:

Firefighters should wear NIOSH/MSHA approved positive pressure breathing apparatus with full face-piece and full chemical resistant protective clothing. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later.

Unusual Fire and Explosion Hazards: None.

6. ACCIDENTAL RELEASE MEASURES

Personal Protection:

Wear chemical goggles, body-covering protective clothing, chemical resistant gloves, and rubber boots. Use NIOSH approved respirator where mist occurs.

Spill Cleanup:

Avoid breathing dust. Use vacuuming or sweeping compound for cleanup. Do not dry sweep or use methods that increase dusting. Prevent entry into sewers and waterways. Flush area with water to complete cleanup.

7. HANDLING AND STORAGE

Handling:

Avoid contact with eyes, skin and clothing. Avoid breathing dust. Keep container closed. Promptly clean residue from closures with cloth dampened with water. Promptly clean up spills.

Storage:

Store in an area that is cool, dry, and well ventilated. Store in clean plastic containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical	CAS No.	EC No.	TLV (mg/m ³)	PEL (mg/m ³)
Silicic Acid, Disodium Salt	6834-92-0	229-912-9	2	2
Sodium Tripolyphosphate	7758-29-4	231-838-7	5	5

Engineering Controls:	Use with adequate ventilation. Keep containers closed. Safety shower and eyewash fountain should be within direct access.
Respiratory Protection:	Airborne concentrations should be kept to lowest levels possible. If vapor, mist or dust is generated, appropriate personal protection equipment and local ventilation controls must be employed. If exposure limits are exceeded and local ventilation is unavailable, a supplied-air respirator or a self-contained NIOSH-approved dust and mist respirator is required.
Skin Protection:	Wear body-covering protective clothing and gloves.
Eye Protection:	Wear chemical goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Powder
Color:	White
Odor:	Odorless
pH:	> 13
Specific Gravity, g/cc	Not Determined
Water Solubility:	Soluble
Boiling Point:	Not Determined
Melting Point:	Not Determined
Vapor Pressure:	Not Determined
Vapor Density (air=1):	Not Determined

10. STABILITY AND REACTIVITY

Chemical Stability:	This material is hygroscopic.
Conditions/Materials to Avoid:	Aqueous solutions will react with aluminum, zinc, tin and their alloys evolving hydrogen gas which can form an explosive mixture with air. Can react violently if in contact with acids. Can react with sugar residues to form carbon monoxide.
Hazardous Decomposition Products:	Hydrogen
Hazardous Polymerization:	Will not occur

11. TOXICOLOGICAL INFORMATION

Component:	Silicic Acid, Disodium Salt
Acute Toxicity:	Inhalation: Inhalation LC50 Rat > 2.06 g/m3 Dust is a severe irritant to the respiratory tract. All symptoms of acute toxicity are due to high alkalinity. Skin Contact: Material will cause chemical burns to the skin. Dermal LD50 Rat > 5000 mg/kg bw Eye Contact: Material will cause chemical burns. May cause permanent damage if eye is not immediately irrigated. Ingestion: Material will cause chemical burns. All symptoms of acute toxicity are due to high alkalinity. Oral LD50 (Rat) 1152-1349 mg/kg bw
Delay / Chronic:	Sensitization: This component is not considered to have sensitizing effects according to current labeling rules. Carcinogenicity: This component is not considered as carcinogenic and not listed by IARC, NTP or OSAH as carcinogens. Mutagenicity: No evidence of genotoxicity. In vitro/in vivo negative. Reproductive Toxicity: No evidence of reproductive toxicity or developmental toxicity.

12. ECOLOGICAL INFORMATION

Toxicity:

Component:	Silicic Acid, Disodium Salt
	Acute Aquatic, Fish (Brachydanio Rerio) LC50 210 mg/l, 96 Hr Acute Invertebrates (Daphnia Magna), EC50 1700 mg/l, 48 Hr
	Persistence & Degradability: Inorganic. Soluble silicates, upon dilution, rapidly depolymerize into molecular species indistinguishable from natural dissolved silica.
	Bioaccumulative Potential: Inorganic. The substance has no potential for bioaccumulation.
	Mobility in Soil: Not applicable.
	PBT & vPvB Assessment: Not classified as PBT or vPvB.
	Other Adverse Effects: The alkalinity of this material will have a local effect on ecosystems sensitive to changes in pH.

13. DISPOSAL CONSIDERATIONS

Disposal Method: Dispose in accordance with federal, state and local regulations and permits.

14. TRANSPORTATION INFORMATION

DOT/IATA
Proper Shipping Name: Disodium Trioxosilicate
DOT UN Number: 3253
Hazard Class: 8
Packing Group: III
Hazard Label: Corrosive Liquid

15. REGULATORY INFORMATION

U.S. Federal Regulations

CERCLA: No CERCLA reportable quantity has been established for this material.

TSCA: All ingredients of this material are listed on the TSCA inventory.

SARA Title III

Sections 302, 304, 313: This product does not contain any substances reportable under these sections.

Sections 311, 312:

Hazard Classes	Yes/No
Fire Hazard	No
Reactivity Hazard	Yes
Pressure Hazard	No
Immediate Hazard	Yes
Delayed Hazard	No

International Inventory	Status
Canada (DSL)	Yes
Europe (EINECS/ELINCS)	Yes
Australia (AICS)	Yes
Japan (MITI)	Yes
South Korea (KECL)	Yes

16. OTHER INFORMATION

NFPA Ratings (scale 0 – 4)	Health, 3 Flammability, 0 Reactivity, 1 Personal Protection, H	
HMIS Ratings (scale 0 – 4)	Health, 3 Flammability, 0 Reactivity, 1 Personal Protection, H	

Key Legend Information

ACGIH	American Conference of Governmental Industrial Hygienists
ARD	International Agency for Research on Cancer
CAS	Chemical Abstract Service
CERCLA	Comprehensive Environmental Response, Compensation & Liability Act
DSL	Domestic Substance List
EC	European Commission
HMIS	Hazardous Materials Identification System
IARC	International Agency for Research on Cancer
ND	Not Determined
NE	Not Established
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety & Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
RE	Repeat Exposure
SARA	Superfund Amendments & Reauthorization Act
SARA Title III	Emergency Planning & Community Right to Know Act
SARA Section 302	Extremely Hazardous Substances
SARA Section 304	Emergency Release
SARA Section 311	MSDS/List of Chemicals & Hazardous Inventory
SARA Section 312	Emergency & Hazardous Inventory
SARA Section 313	Toxic Chemicals & Release Reporting
SE	Single Exposure
STEL	Short Term Exposure Limit
STOT	Specific Target Organ Toxicity
TLV	Threshold Limit Value
TWA	Time Weighted Average

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