



SR-6 SLURRY SEAL SET RETARDER

1 Identification

GHS Product Identifier

SR-6 SLURRY SEAL SET RETARDER

Other means of identification

Cationic Emulsifier Salt Slurry

Supplier's details

COBITCO, INC.
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Emergency phone number

CHEMTREC: 1-800-424-9300

2 Hazard(s) identification

Classification of the substance or mixture

Skin Corrosion/Irritation

Serious Eye Damage/Eye Irritation

Acute Toxicity (Oral/Dermal/Inhalation)



GHS label elements



May be harmful if swallowed, in contact with skin or if inhaled

May cause allergy or asthma symptoms or breathing difficulties if inhaled

May cause an allergic skin reaction

Toxic to aquatic life

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

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

If skin irritation or rash occurs: Get medical advice/attention.

Use personal protective equipment as required.

3 Composition/information on ingredients

Description	CAS Number	EINECS Number	%	Note
Hydrochloric Acid	7647-01-0		0.1 - 0.9	
Proprietary C-21 Dicarboxylic AmidoAlkyl Amine hydrochloride	12002-61-8		20 - 30	
Water and other components	N/A		Balance	

Each of the other components are present in less than 1 percent concentration (or 0.1% concentration for potential carcinogens, reproductive toxins, respiratory tract sensitizers, and mutagens).

None of the other components contribute significant, additional, hazards at the concentrations present in this product. All pertinent hazard information has been provided in this document, per the requirements of the Federal Occupational Safety and Health Administration Standard (29 CFR 1910.1200), U.S. State equivalent Standards and Canadian Workplace Hazardous Materials Identification System Standards (CPR 4).

4 First-aid measures

Description of necessary first-aid measures

Victims of chemical exposure must be taken for medical attention. Rescuers should be taken for medical attention if necessary. Immediate first-aid treatment is recommended for overexposures. Take copy of label and SDS to physician or health professional with victim.

Most important symptoms/effects, acute and delayed

EYE EXPOSURE: If this product enters the eyes, *immediately* open victim's eyes while under gently running water. Use sufficient force to open eyelids. Have the victim "roll" eyes. The recommended minimum flushing time is 15 minutes. If any adverse effect, discomfort or sight changes occur after 15 minutes of rinsing, victim must seek immediate medical attention.

SKIN EXPOSURE: If this product contaminates the skin, decontaminate with running water for at least 15 minutes. Remove exposed or contaminated clothing, taking care not to contaminate eyes. Victims must seek medical attention if adverse effects occur.

INHALATION: If mists or sprays of this product are inhaled, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Victims must seek medical attention if adverse effects occur.

INGESTION: If this product is swallowed, CALL PHYSICIAN OR POISON CONTROL CENTER FOR MOST CURRENT INFORMATION. DO NOT INDUCE VOMITING. Have victim rinse mouth with water if conscious. Never induce vomiting or give a diluent (e.g., water) to someone who is unconscious, having convulsions, or unable to swallow. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain an open airway and prevent aspiration.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-existing dermatitis and other skin conditions may be aggravated by overexposure to this product.

RECOMMENDATIONS TO PHYSICIANS: Treat symptoms. Eliminate overexposure.

5 Fire-fighting measures

Suitable extinguishing media

Water Spray: YES (for cooling) Carbon Dioxide: YES
Foam: YES Dry Chemical: YES
Halon: YES Other: Any "ABC" Class.

Specific hazards arising from the chemical

This product can moderately to severely irritate contaminated tissue. When involved in a fire, this material may decompose and produce irritating vapors and toxic gases (e.g., carbon oxides, nitrogen oxides, and hydrogen chloride). Containers of this product can rupture in a fire situation due to internal water vapor (steam) pressure.

ExplosionSensitivitytoMechanicalImpact: Not sensitive.

ExplosionSensitivitytoStaticDischarge: Not sensitive.

Special protective actions for fire-fighters

Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Chemical resistant clothing may be necessary. Move fire-exposed containers if it can be done without risk to firefighters. If possible, firefighters should control runoff water to prevent environmental contamination. Rinse contaminated equipment with soapy water before returning such equipment to service.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Trained personnel using pre-planned procedures should respond to uncontrolled releases. Proper protective equipment should be used. In case of a spill, clear the affected area and protect people. Monitor the area for levels of this product's components and the level of oxygen. Monitoring must indicate that exposure levels are below those provided in Section 8 (Exposure Controls-Personal Protection) and that oxygen levels are above 19.5% before anyone is permitted in the area without Self-Contained Breathing Apparatus. For small releases, clean up spilled liquid wearing gloves, goggles, faceshield, and suitable body protection. The minimum Personal Protective Equipment recommended for response to non-incident releases should be **triple-gloves (neoprene gloves and nitrile gloves over latex gloves), chemical resistant suit and boots, and hard-hat. Self-Contained Breathing Apparatus must be selected if releases that occur in confined or poorly ventilated areas or in situations in which the level of oxygen is below 19.5%.**

Methods and materials for containment and cleaning up

Absorb spilled liquid with polypads or other suitable absorbent materials. Decontaminate the area thoroughly. Place all spill residue in a suitable container. Dispose of in accordance with U.S. Federal, State, and local hazardous waste disposal regulations or the applicable regulations of Canada and its Provinces (see Section 13, Disposal Considerations).

7 Handling and storage

Precautions for safe handling

As with all chemicals, avoid getting this product ON YOU or IN YOU. Wash thoroughly after handling this product. Do not eat, drink, smoke, or apply cosmetics while handling this product. Avoid breathing mists or sprays generated by this product. Use in a well-ventilated location. Remove contaminated clothing immediately. Eyewash stations and safety showers should be in areas of use of this material.

Conditions for safe storage, including any incompatibilities

All employees who handle this material should be trained to handle it safely. Open containers slowly on a stable surface. Keep container tightly closed when not in use. Containers of this product must be properly labeled. Store containers in a cool, dry location, away from direct sunlight, sources of intense heat, or where freezing is possible. Store away from incompatible materials (see Section 10, Stability and Reactivity). Material should be stored in secondary containers or in a diked area as appropriate. Floors should be sealed to prevent absorption of this material. If appropriate, post warning

signs in storage and use areas. Inspect all incoming containers before storage to ensure containers are properly labeled and not damaged. Empty containers may contain residual liquid or vapors; therefore, empty containers should be handled with care. Never store food, feed, or drinking water in containers that held this product.

BULK SHIPMENTS: Bulk shipments of this product should be loaded and unloaded in strict accordance with truck manufacturer recommendation and all established onsite safety procedures. Appropriate personal protective equipment must be used (see Section 8, Exposure Controls-Personal Protection). All loading and unloading equipment must be inspected, prior to each use. Loading and unloading operations must be attended at all times. Trucks must be level and wheels must be locked or blocked prior to loading or unloading. Truck and material-handling equipment must be verified to be correct for receiving this product and be properly prepared prior to starting the transfer operations. Hoses must be verified to be free of incompatible chemicals prior to connection to the truck. Valves and hoses must be verified to be in the correct positions before starting transfer operations.

PROTECTIVE PRACTICES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT: Follow practices indicated in Section 6 (Accidental Release Measures). Make certain that application equipment is locked and tagged-out safely if necessary. Collect all rinsates and dispose of according to applicable U.S. Federal, State, or local procedures or appropriate Canadian standards.

8 Exposure controls/personal protection

Control parameters

CHEMICAL NAME	CAS #	EXPOSURE LIMITS IN AIR							
		ACGIH-TLVs		OSHA-PELs		NIOSH-RELs		NIOSH	OTHER
		TWA mg/m ³	STEL mg/m ³	TWA mg/m ³	STEL mg/m ³	TWA mg/m ³	STEL mg/m ³	IDLH mg/m ³	mg/m ³
Proprietary C-21 Dicarboxylic Amido Alkyl Amine		NE	NE	NE	NE	NE	NE	NE	NE
Hydrochloric Acid	7647-01-0	NE	2.98 (ceiling)	NE	7 (ceiling)	NE	7 (ceiling)	74.5	DFG MAK: TWA = 3 PEAK = 2•MAK 15 min, average value Pregnancy Risk Group C Carcinogen: IARC-3: TLV-A4

NE = Not Established. NIC (Notice of Intended Change)

Appropriate engineering controls

VENTILATION AND ENGINEERING CONTROLS: This product is normally used and applied outdoors; mechanical or other type of ventilation should not be needed. If this product is used in an area which does lead to inhalation hazard, use adequate ventilation to ensure exposure levels are maintained below the limits provided in Section 2 (Composition and Information on Ingredients), if applicable. A source of water should be nearby use for rinsing of contaminated skin or eyes.

Individual protection measures

RESPIRATORY PROTECTION: None normally required for routine industrial use. If respiratory protection is needed, use only protection authorized in the U.S. Federal OSHA Standard (29 CFR 1910.134), applicable U.S. State regulations, the Canadian CSA Standard Z94.4-02, or applicable standards of Canadian Provinces. Oxygen levels below 19.5% are considered IDLH by OSHA. In such atmospheres, use of a full-facepiece pressure/demand SCBA or a full facepiece, supplied air respirator with auxiliary self-contained air supply is required under OSHA's Respiratory Protection Standard (1910.134-1998).

EYE PROTECTION: Splash goggles or safety glasses. Wear a face shield when using more than 1 gallon of this product. If necessary, refer to U.S. OSHA 29 CFR 1910.133 or the Canadian CSA Standard Z94.3-02, *Industrial Eye and Face Protectors*.

HAND PROTECTION: Wear rubber gloves for routine industrial use. Resistance of specific materials can vary from product to product. Evaluate resistance under conditions of use and maintain clothing carefully. Use triple gloves for spill response, as stated in Section 6 (Accidental Release Measures) of this SDS. If necessary, refer to U.S. OSHA 29 CFR 1910.138.

BODYPROTECTION: Use body protection appropriate for task. Clothing such as protective coveralls with long sleeves and full-length legs is suggested. Full-body chemical protective clothing is recommended for emergency response procedures. If necessary, refer to the OSHA Technical Manual (Section VII: Personal Protective Equipment). If a hazard of injury to the feet exists due to falling objects, rolling objects, where objects may pierce the soles of the feet or where employee's feet may be exposed to electrical hazards, use foot protection, as described in U.S. OSHA 29 CFR 1910.136 and the Canadian CSA Standard Z195-02, *Protective Footwear*.

9 Physical and chemical properties

Physical and chemical properties

APPEARANCE,ODORandCOLOR: This product is a clear, colorless to yellow, odorless, liquid.

HOWTODETECTTHISSUBSTANCE(warningproperties): The appearance may act as a warning property associated with this product.

FLASHPOINT: Not flammable.

AUTOIGNITIONTEMPERATURE: Not applicable.

FLAMMABLELIMITS(inairbyvolume,%):

Lower(LEL): Not applicable.

Upper(UEL): Not applicable.

RELATIVEVAPORDENSITY(air=1): Not determined.

pH: 2.1–2.6

SPECIFICGRAVITY(water=1): Not determined.

MELTINGPOINT: Not determined.

SOLUBILITYINWATER: Not determined.

BOILINGPOINT: Not determined.

VAPORPRESSURE: Not determined.

VISCOSITY: Not determined.

PARTITIONCOEFFICIENT(n-octanol/water): Not determined

EVAPORATIONRATE(n-BuAc=1): Not determined

10 Stability and reactivity

Chemical stability

Stable

Possibility of hazardous reactions

None

Conditions to avoid

Avoid exposure to and contact with extreme temperatures and incompatible materials.

Incompatible materials

This product is not compatible with strong oxidizers and water-reactive materials.

Hazardous decomposition products

The products of thermal decomposition from this product include irritating vapors and toxic gases (e.g., carbon oxides, nitrogen oxides, and hydrogen chloride).

11 Toxicological information

Toxicological (health) effects

Ingestion can cause nausea, vomiting, and diarrhea

Delayed and immediate effects and also chronic effects from short and long term exposure

SUSPECTEDCANCERAGENT: The components of this product are listed as follows:

HYDROCHLORIC ACID: ACGIH TLV-A4 (Not Classifiable as a Human Carcinogen); **IARC-3** (Confirmed Animal Carcinogen).

The other components of this product are not found on the following lists: FEDERAL OSHA Z LIST, NTP, CAL/OSHA, and therefore are neither considered to be nor suspected to be cancer causing agents by these agencies.

IRRITANCY OF PRODUCT: This product can moderately to severely irritate all contaminated tissues, causing pain and discomfort.

SENSITIZATION TO THE PRODUCT: The components of this product are not known to be skin sensitizers with prolonged or repeated use

REPRODUCTIVE TOXICITY INFORMATION: Listed below is information concerning the effects of this product and its components on the human reproductive system.

Mutagenicity: The components of this product are not reported to cause mutagenic effects in humans. Animal mutation data are available for the Hydrogen Chloride component of this product; these data were obtained during clinical studies on specific animal tissues exposed to high doses of this compound.

Embryotoxicity: The components of this product are not reported to produce embryotoxic effects in humans.

Teratogenicity: The components of this product are not reported to cause teratogenic effects in humans. Clinical studies on test animals exposed to relatively high doses of the Hydrogen Chloride component of this product provided teratogenic data.

Reproductive Toxicity: The components of this product are not reported to cause adverse reproductive effects in humans.

A mutagen is a chemical which causes permanent changes to genetic material (DNA) such that the changes will propagate through generational lines. An embryotoxin is a chemical which causes damage to a developing embryo (i.e. within the first eight weeks of pregnancy in humans), but the damage does not propagate across generational lines. A teratogen is a chemical which causes damage to a developing fetus, but the damage does not propagate across generational lines. A reproductive toxin is any substance which interferes in any way with the reproductive process.

BIOLOGICAL EXPOSURE INDICES: Currently, there are no Biological Exposure Indices (BEIs) determined for the components of this product.

Numerical measures of toxicity (such as acute toxicity estimates)

The following toxicological data are available for the Proprietary C-21 Dicarboxylic Amido Alkyl Amine component.

PROPRIETARY C-21 DICARBOXYLIC AMIDO ALKYL AMINE:
LD₅₀ (Oral-Rat) 459 mg/kg

12 Ecological information

Toxicity

EFFECT OF MATERIAL ON PLANTS or ANIMALS: Not tested. This product is expected to be acutely harmful to contaminated plant and animal life, especially if large quantities are released.

EFFECT OF CHEMICAL ON AQUATIC LIFE: This product is toxic to aquatic life if released into an aquatic environment. If high concentrations of the product are released to an aquatic environment, death of fish, animals and invertebrates may occur. Additional aquatic toxicity data are available as follows:

PROPRIETARY C-21 DICARBOXYLIC AMIDO ALKYL AMINE:
Pimephales promelas (Fathead Minnow): LC₅₀ = 1–10 mg/L
Daphnia magna: (Water flea): EC₅₀ = 1–10 mg/L

Algae: EC₅₀ = 1–10 mg/L**Persistence and degradability**

This product is not readily biodegradable.

13 Disposal considerations**Disposal methods**

PREPARING WASTES FOR DISPOSAL: Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations or with regulations of Canada. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority.

EPA WASTE NUMBER: Not applicable for wastes consisting only of this product.

14 Transport information**UN Number**

Not applicable.

UN Proper Shipping Name

Not applicable.

Transport hazard class(es)

Not applicable.

Packing group, if applicable

Not applicable.

Environmental hazards

This product is not designated by the DOT to be a Marine Pollutant (49 CFR 172.101, Appendix B).

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

TRANSPORT CANADA TRANSPORTATION OF DANGEROUS GOODS REGULATIONS: This product is not considered as dangerous good, per regulations of Transport Canada.

INTERNATIONAL AIR TRANSPORT ASSOCIATION: This product is not considered as dangerous good, per rules of International Air Transport Association (IATA).

15 Regulatory information**Safety, health and environmental regulations specific for the product in question****ADDITIONAL UNITED STATES REGULATIONS:**

U.S. SARA REPORTING REQUIREMENTS: The constituents in this product's components of are subject to Sections 302, 304, and 313 reporting requirements under the Superfund Amendment and Reauthorization Act, as follows:

COMPONENT	SARA 302 (40 CFR 355, Appendix A)	SARA 304 (40 CFR Table 302.4)	SARA 313 (40 CFR 372.65)
Hydrochloric Acid	No	Yes	Yes (Aerosol Form Only)

U.S. SARA THRESHOLD PLANNING QUANTITY: There are no specific Threshold Planning Quantities for the

components of this product. The default Federal SDS submission and inventory requirement filing threshold of 10,000 lb (4,540 kg) applies, per 40 CFR 370.20.

U.S. SARA SECTIONS 311/312 HAZARDOUS CHEMICAL REPORTING: This product has requirements of hazardous chemical reporting, as per 40 CFR, Part 370:

IMMEDIATE HEALTH (Acute Health Hazard)	DELAYED HEALTH (Chronic Health Hazard)	FIRE	SUDDEN RELEASE	REACTIVE
Yes	No	No	No	No

U.S. SARA SECTION 313 HAZARDOUS CHEMICAL REPORTING: No component of this product has reporting requirements under SARA Title III (CERCLA and EPCRA), 40 CFR, Part 372.

U.S. TSCA INVENTORY STATUS: The chemicals in this product are listed on the TSCA Inventory.

U.S. CERCLA REPORTABLE QUANTITY (RQ): Hydrochloric Acid = 5000 lb (2268 kg).

OTHER U.S. FEDERAL REGULATIONS: Not applicable.

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): No component of this product is on the California Proposition 65 lists.

ANSI LABELING (Z129.1): **WARNING!** CAUSES MODERATE TO SEVERE SKIN, EYE, AND RESPIRATORY TRACT IRRITATION. Avoid contact with skin, eyes, or clothing. Avoid breathing vapor, mists, or sprays. Wash thoroughly after handling. Use only with adequate ventilation. Do not taste or swallow. Keep container tightly closed. Wear gloves, goggles, and appropriate body protection. **FIRST-AID:** In case of contact with skin or eyes, flush with plenty of water for 15 minutes. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If swallowed, do not induce vomiting. Get medical attention if adverse effects develop. **IN CASE OF FIRE:** Use water fog, dry chemical, CO₂, or "alcohol" foam. **IN CASE OF SPILL:** Absorb spill with inert material (sand, polypads, or other absorbent). For large spills, dike area. Consult Safety Data Sheet for additional information.

16 Other information

Other information

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