

## Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 03/10/2020

Reviewed on 03/10/2020

### \* 1 Identification

- **Product Identifier**
- **Trade Name: Scale Breaker**
- **Relevant identified uses of the substance or mixture and uses advised against:**
- **Product Description:** Cylindrical Solid Stick
- **Application of the substance / the mixture:** Descaling
- **Details of the Supplier of the Safety Data Sheet:**
- **Manufacturer/Supplier:**  
Croft Supply  
19230 FM 442 RD  
Needville, TX 77461  
979-793-2100
- **Emergency telephone number:** (940) 855-0461

### 2 Hazard(s) Identification

- **Classification of the substance or mixture:**



Corrosion

Skin Corr. 1A      H314 Causes severe skin burns and eye damage.  
Eye Dam. 1      H318 Causes serious eye damage.



Environment

Aquatic Chronic 2      H411 Toxic to aquatic life with long lasting effects.

- **Label elements:**
- **Hazard pictograms:**



- **Signal word:** Danger
- **Hazard-determining components of labeling:**  
Sulfamic acid  
Nonylphenol Polyethylene Ethoxylate
- **Hazard statements:**  
H314 Causes severe skin burns and eye damage.  
H411 Toxic to aquatic life with long lasting effects.
- **Precautionary statements:**  
P260 Do not breathe dusts or mists.  
P264 Wash thoroughly after handling.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.  
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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P310	Immediately call a poison center/doctor.
P321	Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Unknown acute toxicity:**  
0 % of the mixture consists of component(s) of unknown toxicity.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



· **HMIS-ratings (scale 0 - 4)**

HEALTH	3	Health = *3
FIRE	1	Fire = 1
REACTIVITY	0	Physical Hazard = 0

· **Hazard(s) not otherwise classified (HNOC):** None known

### 3 Composition/Information on Ingredients

· **Non-hazardous components:**

8061-51-6	Sodium Lignosulfonates	2-12%
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· **Chemical characterization: Mixtures**

· **Description:** Mixture of substances listed below with non-hazardous additions.

· **Dangerous Components:**

CAS: 5329-14-6 RTECS: WO 5950000	Sulfamic acid ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Aquatic Chronic 3, H412	25-50%
CAS: 25322-68-3	Polyethylene Glycol	25-50%
CAS: 127087-87-0 RTECS: WZ4750000	Nonylphenol Polyethylene Ethoxylate ⚠ Eye Dam. 1, H318; ⚠ Aquatic Chronic 2, H411; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332	25-50%

### 4 First-Aid Measures

· **Description of first aid measures**

· **General information:** Immediately remove any clothing soiled by the product.

· **After inhalation:** In case of unconsciousness place patient stably in the side position for transportation.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation occurs, consult a doctor.

· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

· **After swallowing:** Drink copious amounts of water and provide fresh air. Immediately call a doctor.

· **Information for doctor**

· **Most important symptoms and effects, both acute and delayed:** No further relevant information available.

· **Indication of any immediate medical attention and special treatment needed:**

No further relevant information available.

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### 5 Fire-Fighting Measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents:** No further relevant information is available.
- **Special hazards arising from the substance or mixture:** No further relevant information available.
- **Advice for firefighters**
- **Special protective equipment for firefighters:**  
As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

### 6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures:**  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**  
Inform respective authorities in case of seepage into water course or sewage system.
- **Methods and material for containment and cleaning up:**  
Use neutralizing agent.  
Dispose of contaminated material as waste according to section 13.  
Ensure adequate ventilation.  
Dispose of the collected material according to regulations.
- **Reference to other sections:**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### 7 Handling and Storage

- **Handling**
- **Precautions for safe handling:** Avoid creating and breathing dust/fume/gas/mist/vapors/spray.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:** Store in the original container.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s):** No further relevant information available.

### 8 Exposure Controls/Personal Protection

- **Additional information about design of technical systems:** No further data; see section 7.
- **Control parameters:**

- **Components with occupational exposure limits:**

**25322-68-3 Polyethylene Glycol**WEEL Long-term value: 10 mg/m<sup>3</sup>  
(H); MW>200

- **Additional information:** The lists that were valid during the creation of this SDS were used as basis.
- **Exposure controls:**
- **Personal protective equipment**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.

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Immediately remove all soiled and contaminated clothing and wash before reuse.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

- **Breathing equipment:** Not required.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Select glove material based on penetration times, rates of diffusion and degradation.

- **Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material:**

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

- **Eye protection:**



Tightly sealed goggles

## 9 Physical and Chemical Properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

**Form:** Solid

**Color:** Brown

- **Odor:** Soapy

- **Odor threshold:** Not determined.

- **pH-value @ 20 °C (68 °F):** 2

- **Change in condition**

**Melting point/Melting range:** Not determined.

**Boiling point/Boiling range:** 101 °C (213.8 °F)

- **Flash point:** 101 °C (213.8 °F)

- **Flammability (solid, gaseous):** Not determined.

- **Ignition temperature:** 305 °C (581 °F)

- **Decomposition temperature:** Not determined.

- **Auto igniting:** Product is not self-igniting.

- **Danger of explosion:** Product does not present an explosion hazard.

- **Explosion limits:**

**Lower:** Not determined.

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- Upper:** Not determined.
- **Vapor pressure:** Not applicable.
- **Density @ 20 °C (68 °F):** 1.094 g/cm<sup>3</sup> (9.1294 lbs/gal)
- **Relative density:** Not determined.
- **Vapor density:** Not applicable.
- **Evaporation rate:** Not applicable.
- **Solubility in / Miscibility with:**
- Water:** Soluble.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
- Dynamic:** Not applicable.
- Kinematic:** Not applicable.
- **Solvent content:**
- Organic solvents:** 0.0 %
- Solids content:** 100.0 %
- **Other information:** No further relevant information available.

**10 Stability and Reactivity**

- **Reactivity:** No further relevant information available.
- **Chemical stability:** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

**11 Toxicological Information**

- **Information on toxicological effects:**
- **Acute toxicity:**

<b>LD/LC50 values that are relevant for classification:</b>		
<b>5329-14-6 Sulfamic acid</b>		
Oral	LD50	3160 mg/kg (Rat)
<b>25322-68-3 Polyethylene Glycol</b>		
Oral	LD50	>5000 mg/kg (Rat)
Dermal	LD50	>5000 mg/kg (Rabbit)

- **Primary irritant effect:**
- **On the skin:** Strong caustic effect on skin and mucous membranes.
- **On the eye:**  
Corrosive effect.  
Causes serious eye irritation.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:  
Corrosive  
Swallowing will lead to a corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach.

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**Trade Name: Scale Breaker****· Carcinogenic categories:****· IARC (International Agency for Research on Cancer):**

None of the ingredients are listed.

**· NTP (National Toxicology Program):**

None of the ingredients are listed.

**· OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

### 12 Ecological Information

**· Toxicity:****· Aquatic toxicity:**

Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.

**· Persistence and degradability:** No further relevant information available.**· Behavior in environmental systems:****· Bioaccumulative potential:** No further relevant information available.**· Mobility in soil:** No further relevant information available.**· Ecotoxicological effects:****· Remark:** Harmful to fish**· Additional ecological information:****· General notes:**

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Harmful to aquatic organisms

**· Results of PBT and vPvB assessment:****· PBT:** Not applicable.**· vPvB:** Not applicable.**· Other adverse effects:** No further relevant information available.

### 13 Disposal Considerations

**· Waste treatment methods****· Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

**· Uncleaned packaging****· Recommendation:** Disposal must be made according to official regulations.

### 14 Transport Information

**· UN-Number:****· DOT, ADR/ADN, IMDG, IATA**

UN3260

**· UN proper shipping name:****· DOT****· ADR/ADN**Corrosive solid, acidic, inorganic, n.o.s. (Sulfamic acid)  
UN3260 CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.  
(SULPHAMIC ACID), ENVIRONMENTALLY HAZARDOUS  
CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.  
(SULPHAMIC ACID)**· IMDG, IATA**

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**Trade Name: Scale Breaker**

· **Transport hazard class(es):**

· **DOT**



· **Class:** 8 Corrosive substances  
· **Label:** 8

· **ADR/ADN**



· **Class:** 8 (C2) Corrosive substances  
· **Label:** 8

· **IMDG, IATA**



· **Class:** 8 Corrosive substances  
· **Label:** 8  
· **Packing group:** I  
· **DOT, ADR/ADN, IMDG, IATA** I  
· **Environmental hazards:** Product contains environmentally hazardous substances:  
Nonylphenol Polyethylene Ethoxylate  
Symbol (fish and tree)  
Warning: Corrosive substances  
· **Special marking (ADR/ADN):** Symbol (fish and tree)  
· **Special precautions for user:** Warning: Corrosive substances  
· **Hazard identification number (Kemler code):** 88  
· **EMS Number:** F-A,S-B  
· **Segregation groups:** Acids  
· **Stowage Category** B  
· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable.  
· **Transport/Additional information:**  
· **DOT**  
· **Quantity limitations:** On passenger aircraft/rail: 1 kg  
On cargo aircraft only: 25 kg

· **ADR/ADN**

· **Excepted quantities (EQ):** Code: E0  
Not permitted as Excepted Quantity

· **IMDG**

· **Limited quantities (LQ):** 0  
· **Excepted quantities (EQ):** Code: E0  
Not permitted as Excepted Quantity

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- **UN "Model Regulation":** UN 3260 CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (SULPHAMIC ACID), 8, 1, ENVIRONMENTALLY HAZARDOUS

**15 Regulatory Information**

- **Safety, health and environmental regulations/legislation specific for the substance or mixture:**
- **SARA (Superfund Amendments and Reauthorization):**

<b>Section 355 (extremely hazardous substances):</b>	None of the ingredients are listed.
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<b>Section 313 (Specific toxic chemical listings):</b>	None of the ingredients are listed.
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<b>TSCA (Toxic Substances Control Act):</b>	
5329-14-6	Sulfamic acid
25322-68-3	Polyethylene Glycol
69011-37-6	Ethoxylated alcohol sulfate
8061-51-6	Sodium Lignosulfonates

- **California Proposition 65:**

<b>Chemicals known to cause cancer:</b>	None of the ingredients are listed.
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<b>Chemicals known to cause reproductive toxicity for females:</b>	None of the ingredients are listed.
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<b>Chemicals known to cause reproductive toxicity for males:</b>	None of the ingredients are listed.
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<b>Chemicals known to cause developmental toxicity:</b>	None of the ingredients are listed.
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<b>New Jersey Right-to-Know List:</b>	
5329-14-6	Sulfamic acid
25322-68-3	Polyethylene Glycol
8061-51-6	Sodium Lignosulfonates

<b>Pennsylvania Special Hazardous Substance List:</b>	
5329-14-6	Sulfamic acid
25322-68-3	Polyethylene Glycol
8061-51-6	Sodium Lignosulfonates

- **Carcinogenic categories:**

<b>EPA (Environmental Protection Agency):</b>	None of the ingredients are listed.
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<b>TLV (Threshold Limit Value established by ACGIH):</b>	None of the ingredients are listed.
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<b>NIOSH-Ca (National Institute for Occupational Safety and Health):</b>	None of the ingredients are listed.
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- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

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**Trade Name: Scale Breaker**

· **Hazard pictograms:**



· **Signal word:** Danger

· **Hazard-determining components of labeling:**

Sulfamic acid  
Nonylphenol Polyethylene Ethoxylate

· **Hazard statements:**

H314 Causes severe skin burns and eye damage.  
H411 Toxic to aquatic life with long lasting effects.

· **Precautionary statements:**

P260 Do not breathe dusts or mists.  
P264 Wash thoroughly after handling.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.  
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a poison center/doctor.  
P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).  
P363 Wash contaminated clothing before reuse.  
P391 Collect spillage.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **National regulations:**

None of the ingredients are listed.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

· **Date of last revision/ revision number:** 03/10/2020 / 2

· **Abbreviations and acronyms:**

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road  
ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
IMDG: International Maritime Code for Dangerous Goods  
DOT: US Department of Transportation  
IATA: International Air Transport Association  
ACGIH: American Conference of Governmental Industrial Hygienists  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
NFPA: National Fire Protection Association (USA)  
HMIS: Hazardous Materials Identification System (USA)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent

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PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety & Health Administration

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

**\* Data compared to the previous version altered.**

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