

Safety Data Sheet

SECTION 1: Identification

1.1 Product identifier

Product name	SpitFire
Product number	819
Brand	Crown Chemical, Inc.

1.2 Other means of identification

SpitFire

1.3 Recommended use of the chemical and restrictions on use

Premium High pH Foaming Presoak and Pressure Wash Detergent

1.4 Supplier's details

Name	Crown Chemical, Inc.
Address	4701 W. 136th. St. Crestwood, Illinois 60418 U.S.A.
Telephone	708-371-6990
Fax	708-371-6992
email	info@crown-chem.com

1.5 Emergency phone number

800-535-5053

SECTION 2: Hazard identification

General hazard statement

Causes severe skin burns and serious eye damage. Harmful if swallowed.

2.1 Classification of the substance or mixture

GHS classification in accordance with: OSHA (29 CFR 1910.1200)

- Eye damage/irritation, Cat. 1
- Skin corrosion/irritation, Cat. 1A
- Specific target organ toxicity (single exposure), Cat. 3

2.2 GHS label elements, including precautionary statements

Pictogram



1. Corrosion; 2. Exclamation mark

Signal word

Danger

Hazard statement(s)

H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness

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Precautionary statement(s)

P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash hands & skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
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 for treatment advice.
P312	Call a POISON CENTER/doctor/.../ if you feel unwell.
P321	Specific treatment (see details on label).
P363	Wash contaminated clothing before reuse.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents and container in accordance with all local, state, national and international regulations.

2.3 Other hazards which do not result in classification

None identified

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Corrosive Mixture

Hazardous components

1. Sodium hydroxide

Concentration 18 - 24 % (By Weight)

CAS no. 1310-73-2

- Skin corrosion/irritation, Cat. 1A

H314

Causes severe skin burns and eye damage

SCLs/M-factors/ATEs

Skin Corr. 1A; H314: $C \geq 5 \%$

Skin Corr. 1B; H314: $2 \% \leq C < 5 \%$

Skin Irrit. 2; H315: $0,5 \% \leq C < 2 \%$

Eye Irrit. 2; H319: $0,5 \% \leq C < 2 \%$

2. Sodium metasilicate pentahydrate

Concentration 25 - 31 % (By Weight)

CAS no. 6834-92-0

- Specific target organ toxicity (single exposure), Cat. 3

- Skin corrosion/irritation, Cat. 1B

H314

Causes severe skin burns and eye damage

H335

May cause respiratory irritation

Trade secret statement (OSHA 1910.1200(i))

The specific chemical identities and/or actual concentrations for one or more components are being withheld as trade secrets under the US regulation 29 CFR 1910.1200(i).

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General advice	Do not breathe dust, vapor or mists. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective rubber gloves and chemical splash goggles or face shield when using this product. If inhalable particles of dust, vapor or mists may occur during use, wear NIOSH approved respiratory protection. NEVER mix this product with anything except water.
If inhaled	Remove person to fresh air and keep comfortable for breathing. Immediately call a poison control center or doctor for treatment advice.
In case of skin contact	Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. Immediately call a poison control center or doctor for treatment advice.
In case of eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison control center or doctor for treatment advice.
If swallowed	Rinse out mouth. Do NOT induce vomiting. Immediately call a poison control center or doctor for treatment advice.

4.2 Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of immediate medical attention and special treatment needed, if necessary

No data available

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Specific hazards arising from the chemical

Carbon oxides

5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further information

Remove all persons from the vicinity. No responsive action should be taken without proper training.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Initiate spill containment procedures immediately using containment or absorption methods. Keep people away from area. Put on appropriate protective equipment (see Section 8).

6.2 Environmental precautions

See Section 12 for ecological information.

6.3 Methods and materials for containment and cleaning up

Do not allow spilled material to enter sewers, waterways or soil. Neutralize with water. Mop, sweep or otherwise collect spilled material and hold for disposal. Consult local government authorities for allowable disposal methods. After removal, rinse area completely with water to remove residue.

Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Do not breathe dust, vapor or mists. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective rubber gloves and chemical splash goggles or face shield when using this product. If inhalable particles of dust, vapor or mists may occur during use, wear NIOSH approved respiratory protection.

7.2 Conditions for safe storage, including any incompatibilities

Store in a locked location inaccessible to children. Dispose of contents and container in accordance with all local, state, national and international regulations. Keep container closed when not in use. NEVER mix this product with anything except water. Consult Safety Data Sheet (SDS) for further information before use.

Specific end use(s)

Apart from the uses mentioned in section 1 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

1. Sodium hydroxide (CAS: 1310-73-2)

PEL (Inhalation): 2 mg/m³; USA (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

PEL (Inhalation): (C) 2 mg/m³; USA (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov

REL (Inhalation): (C) 2 mg/m³; USA (NIOSH)
OSHA Annotated Table Z-1, www.osha.gov

TLV® (Inhalation): (C) 2 mg/m³; USA (ACGIH)
OSHA Annotated Table Z-1, www.osha.gov

8.2 Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Wear chemical splash goggles or face shield when using this product.

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body protection

Do not breathe dust, vapor or mists. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.

Respiratory protection

If inhalable particles of dust, vapor or mists may occur during use, wear NIOSH approved respiratory protection.

Thermal hazards

No data available.

Control banding approach

No data available.

Environmental exposure controls

Do not let product enter drains.

SECTION 9: Physical and chemical properties and safety characteristics

Basic physical and chemical properties

Appearance	White Powder
Odor	Characteristic
Odor threshold	No data available.
Melting point/freezing point	No data available.
Boiling point or initial boiling point and boiling range	No data available.
Flammability	Non-Combustible
Lower and upper explosion limit/flammability limit	No data available.
Flash point	Non-Combustible
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
pH	<12.0 (1% solution, 22°C)
Kinematic viscosity	No data available.
Solubility	100% (in H ₂ O, 22°C)
Partition coefficient n-octanol/water (log value)	No data available.
Vapor pressure	No data available.
Evaporation rate	No data available.
Density and/or relative density	>1.0 (lbs/gal, 22°C)
Relative vapor density	No data available.

Particle characteristics

No data available.

Supplemental information regarding physical hazard classes

No data available.

Further safety characteristics (supplemental)

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

None under normal use conditions.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

None under normal use conditions.

10.4 Conditions to avoid

Avoid storing in direct sunlight and avoid extremes of temperature.

10.5 Incompatible materials

Sodium hydroxide : Caustic soda reacts with all the mineral acids to form the corresponding salts. It also reacts with weak-acid gases, such as hydrogen sulfide, sulfur dioxide, and carbon dioxide. Caustic soda reacts with amphoteric metals (Al, Zn, Sn) and their oxides to form complex anions such as AlO₂(-), ZnO₂(-2), SNO₂(-2), and H₂ (or H₂O with oxides). All organic acids also react with sodium hydroxide to form soluble salts. Another common reaction of caustic soda is dehydrochlorination.

Sodium metasilicate pentahydrate : Strong oxidizing agents

10.6 Hazardous decomposition products

Sodium hydroxide : Sodium oxides

Sodium metasilicate pentahydrate : Other decomposition products - No data available

In the event of fire: see section 5

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Eyes, Skin, Ingestion, Inhalation.

Skin corrosion/irritation

Causes severe skin burns.

Serious eye damage/irritation

Risk of serious damage to eyes.

Respiratory or skin sensitization

May cause allergy or asthma symptoms or breathing difficulties if inhaled

Germ cell mutagenicity

No data available

Carcinogenicity

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

Reproductive toxicity

No data available

STOT-single exposure

No data available

STOT-repeated exposure

Based on available data, classification data are not met

Aspiration hazard

May be harmful if swallowed and enters airways

SECTION 12: Ecological information

Toxicity

No specific data available for this mixture. Sodium Hydroxide is known to be toxic to aquatic life. Disodium Trioxosilicate are known to be moderately toxic to aquatic life.

Persistence and degradability

No data available on product

Bioaccumulative potential

No data available on product

Mobility in soil

No data available on product

Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

Product disposal

Avoid disposal of this product. Use complete contents according to directions. Do not release contents into a municipal sewer except through normal dilution and usage. Do not release contents onto the ground or into any body of water. Dispose of empty container by offering for recycling if available, or into a landfill. Follow all applicable state and local regulations.

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Packaging disposal

Dispose of empty container by offering for recycling if available, or into a landfill. Follow all applicable state and local regulations.

SECTION 14: Transport information

DOT (US)

UN Number: UN 3262

Class: 8

Packing Group: II

Proper Shipping Name: UN 3262, Corrosive Solid, Basic, Inorganic, N.O.S., 8, PG II (Contains Sodium Hydroxide)

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

Massachusetts Right To Know Components

Sodium hydroxide, CAS number: 1310-73-2

New Jersey Right To Know Components

Sodium hydroxide, CAS number: 1310-73-2

Pennsylvania Right To Know Components

Sodium hydroxide, CAS number: 1310-73-2

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Acute Health Hazard

California Prop. 65 Components

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

SECTION 16: Other information

The information herein is believed to be correct, but is given without warranty or guaranty of any kind, express or implied. The hazards provided in this Safety Data Sheet apply to the product in its concentrated form, and may differ significantly after dilution.

16.1 Further information/disclaimer

DISCLAIMER: The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of information for their particular purposes. In no event shall Crown Chemical, Inc. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, whatsoever arising, even if Crown Chemical, Inc. has been advised of the possibility of such damages.