



Safety Data Sheet

SECTION 1: Identification

1.1 GHS Product identifier

| | |
|----------------|------------------------|
| Product name | PowerJet Part B |
| Product number | 812 |
| Brand | Crown Chemical, Inc. |

1.2 Other means of identification

PowerJet Part B

1.3 Recommended use of the chemical and restrictions on use

High Performance Foaming High pH Presoak

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

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 |

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Precautionary statement(s)

| | |
|----------------|---|
| P260 | Do not breathe dust/fume/gas/mist/vapors/spray. |
| P264 | Wash hands & skin thoroughly after handling. |
| 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. |
| P321 | Specific treatment (see details on label). |
| P363 | Wash contaminated clothing before reuse. |
| 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

Mixture

Hazardous components

1. Sodium hydroxide

| | |
|--------------------------------------|---|
| Concentration | 2 - 7 % (By Weight) |
| CAS no. | 1310-73-2 |
| - Skin corrosion/irritation, Cat. 1A | |
| H314 | Causes severe skin burns and eye damage |

2. Potassium hydroxide

| | |
|--------------------------------------|---|
| Concentration | 1 - 6 % (By Weight) |
| CAS no. | 1310-58-3 |
| - Skin corrosion/irritation, Cat. 1A | |
| - Acute toxicity, oral, Cat. 4 | |
| H302 | Harmful if swallowed |
| H314 | Causes severe skin burns and eye damage |

3. 2-Butoxyethanol

| | |
|---|-------------------------------|
| Concentration | 4 - 9 % (By Weight) |
| CAS no. | 111-76-2 |
| - Skin corrosion/irritation, Cat. 2 | |
| - Serious eye damage/eye irritation, Cat. 2 | |
| - Acute toxicity, dermal, Cat. 4 | |
| - Acute toxicity, inhalation, Cat. 4 | |
| - Acute toxicity, oral, Cat. 4 | |
| H302 | Harmful if swallowed |
| H312 | Harmful in contact with skin |
| H315 | Causes skin irritation |
| H319 | Causes serious eye irritation |
| H332 | Harmful if inhaled |

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 vapor or mists. Wash hands thoroughly after handling. Wear protective rubber gloves and chemical splash goggles or face shield when using this product. If inhalable particles of vapor or mists may occur during use, wear NIOSH approved respiratory protection. Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. |
| If inhaled | Remove person to fresh air and keep comfortable for breathing. |
| In case of skin contact | Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. |
| 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

See Section 11 for additional information.

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

Treat exposure symptomatically. In all cases of eye contact, ingestion, or inhalation, contact a doctor or Poison Control Center immediately.

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

None known

5.3 Special protective actions for fire-fighters

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

Further information

Use water spray to cool unopened containers.

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.

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Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Do not breathe vapor or mists. Wash hands thoroughly after handling. Wear protective rubber gloves and chemical splash goggles or face shield when using this product. If inhalable particles of 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 small children. Keep container closed when not in use. Store in a wellventilated area between 60-100°F (15- 38°C).

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

2. Potassium hydroxide (CAS: 1310-58-3 EC: 215-181-3)

PEL-C (Inhalation): 2 mg/m³; USA (ACGIH)
Upper Respiratory Tract irritation, Eye irritation, Skin irritation

PEL-C (Inhalation): 2 mg/m³; USA (NIOSH)

PEL-C (Inhalation): 2 mg/m³; USA (Cal/OSHA)

3. 2-Butoxyethanol (CAS: 111-76-2 EC: 203-905-0)

PEL (Inhalation): 50 ppm (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

PEL (Inhalation): 240 mg/m³ (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

PEL (Inhalation): 20 ppm (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov

REL (Inhalation): 5 ppm (NIOSH)
OSHA Annotated Table Z-1, www.osha.gov

PEL (Inhalation): 20 ppm, 97 mg/m³
California permissible exposure limits for chemical contaminants
(Title 8, Article 107)/Skin

TWA (Inhalation): 50 ppm, 240 mg/m³; USA (OSHA)
USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air
Contaminants/Skin designation
The value in mg/m³ is approximate

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TWA (Inhalation): 5 ppm, 24 mg/m³; USA (NIOSH)
USA. NIOSH Recommended Exposure Limits/Potential for dermal absorption

TWA (Inhalation): 20 ppm; USA (ACGIH)
USA. ACGIH Threshold Limit Values (TLV)/Upper Respiratory Tract irritation Eye irritation Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Confirmed animal carcinogen with unknown relevance to humans

TLV® (Inhalation): 20 ppm; USA (ACGIH)
OSHA Annotated Table Z-1, www.osha.gov

8.2 Appropriate engineering controls

Use with adequate ventilation to maintain exposure limits below listed thresholds.

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

Wear protective rubber gloves, a long sleeve shirt and, if necessary, a rubber apron to prevent contact.

Body protection

Wear protective rubber gloves and chemical splash goggles or face shield when using this product.

Respiratory protection

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

Thermal hazards

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 | Blue Liquid |
| 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 | No data available |
| Lower and upper explosion limit/flammability limit | No data available. |
| Flash point | None |
| Explosive properties | No data available. |
| Auto-ignition temperature | No data available |
| Decomposition temperature | No data available. |
| Oxidizing properties | No data available |
| pH | >11.0 (1% solution, 22°C) |
| Kinematic viscosity | >1.0 (H ₂ O =1.0) |
| Solubility | 100% in 120°F Water |
| 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 | 8.87±0.1 (lbs/gal, 22°C) |
| Relative vapor density | No data available |

Particle characteristics

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

Product is stable under normal storage and usage conditions.

10.3 Possibility of hazardous reactions

None under normal use conditions.

10.4 Conditions to avoid

Heat, flames and sparks. Incompatible products. Keep away from open flames, hot surfaces and sources of ignition.

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 $AlO_2(-)$, $ZnO_2(-2)$, $SnO_2(-2)$, and H_2 (or H_2O with oxides). All organic acids also react with sodium hydroxide to form soluble salts. Another common reaction of caustic soda is dehydrochlorination.

Potassium hydroxide: Nitro compounds, Organic materials, Magnesium, Copper, Water, reacts violently with:, Metals, Light metals, Contact with aluminum, tin and zinc liberates hydrogen gas. Contact with nitromethane and other similar nitro compounds causes formation of shock-sensitive salts., vigorous reaction with:, Alkali metals, Halogens, Azides, Anhydrides

2-Butoxyethanol: Strong oxidizing agents

10.6 Hazardous decomposition products

Sodium hydroxide : Sodium oxides

Hazardous decomposition products formed under fire conditions. - Potassium oxides

In the event of fire: see section 5

2-Butoxyethanol: Hazardous decomposition products formed under fire conditions. - Carbon oxides

In the event of fire: see section 5

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

ATE (oral) of mixture: 2631.58 mg/kg

Skin corrosion/irritation

Irritation, pain, redness, blistering.

Serious eye damage/irritation

Irritation, pain, redness, watering.

Respiratory or skin sensitization

Coughing, choking, respiratory tract irritation, breathing difficulty.

Germ cell mutagenicity

No data available.

Carcinogenicity

No data available.

Reproductive toxicity

No data available.

Summary of evaluation of the CMR properties

No data available.

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STOT-single exposure

No data available.

STOT-repeated exposure

No data available.

Aspiration hazard

No data available.

Additional information

No known significant effects or critical hazards.

SECTION 12: Ecological information

Toxicity

No data available on product

Persistence and degradability

No data available on product

Bioaccumulative potential

No data available on product

Mobility in soil

No data available.

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

Disposal methods

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.

SECTION 14: Transport information

DOT (US)

UN Number: UN 1760

Class: 8

Packing Group: II

Proper Shipping Name: UN 1760, Compounds, Cleaning Liquid, 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

Potassium hydroxide, CAS-No. 1310-58-3

Ethylene glycol monobutyl ether, CAS: 111-76-2

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New Jersey Right To Know Components

Sodium hydroxide, CAS number: 1310-73-2
Potassium hydroxide, CAS-No. 1310-58-3
Ethylene glycol monobutyl ether, CAS: 111-76-2

Pennsylvania Right To Know Components

Sodium hydroxide, CAS number: 1310-73-2
Potassium hydroxide, CAS-No. 1310-58-3
Ethylene glycol monobutyl ether, CAS: 111-76-2

SARA 302 Components

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

SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313: Ethylene glycol monobutyl ether CAS: 111-76-2

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.