# Safety Data Sheet

## SECTION 1: Identification

1.1 **Product identifier**  
   **Product name**: StainSolve D  
   **Product number**: 214  
   **Brand**: Crown Chemical, Inc

1.2 **Other means of identification**  
   StainSolve D

1.3 **Recommended use of the chemical and restrictions on use**  
   Laundry stain remover

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(s)**  
   800-535-5053

## SECTION 2: Hazard identification

**General hazard statement**  
Causes serious eye damage; Causes severe skin burns and eye damage; Harmful if swallowed

2.1 **Classification of the substance or mixture**

   **GHS classification in accordance with: (US) OSHA (29 CFR 1910.1200)**  
   - Eye damage/irritation, Cat. 1  
   - Skin corrosion/irritation, Cat. 1A  
   - Acute toxicity, oral, Cat. 4

2.2 **GHS label elements, including precautionary statements**

   **Pictogram**

   ![Pictogram Image]

   1. Corrosion; 2. Exclamation mark

   **Signal word**  
   Danger

   **Hazard statement(s)**

   - H318: Causes serious eye damage
   - H314: Causes severe skin burns and eye damage
   - H302: Harmful if swallowed
Precautionary statement(s)

P280 Wear eye protection/face protection/protective gloves/protective clothing.
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.
P250 Do not breathe dust/fume/gas/mist/vapors/spray.
P264 Wash hands & skin thoroughly after handling.
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.
P363 Wash contaminated clothing before reuse.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P405 Store locked up.
P501 Dispose of contents and container in accordance with all local, state, national and international regulations.
P270 Do not eat, drink or smoke when using this product.
P301+P312 IF SWALLOWED: Call a POISON CENTER /doctor if you feel unwell.
P330 Rinse mouth.

2.3 Other hazards which do not result in classification
None identified

SECTION 3: Composition/information on ingredients

3.2 Mixtures
Corrosive Mixture

Components

1. Potassium hydroxide
Concentration 1 - 5 % (By Weight)
EC no. 215-181-3
CAS no. 1310-58-3
Index no. 019-002-00-8

- Skin corrosion/irritation, Cat. 1A
- Acute toxicity, oral, Cat. 4

H302 Harmful if swallowed
H314 Causes severe skin burns and eye damage

2. Ethanolamine
Concentration 1 - 5 % (By Weight)
EC no. 205-483-3
CAS no. 141-43-5
Index no. 603-030-00-8

- Acute toxicity, inhalation, Cat. 4
- Acute toxicity, dermal, Cat. 4
- Acute toxicity, oral, Cat. 4
- Skin corrosion/irritation, Cat. 1B

H302 Harmful if swallowed
H312 Harmful in contact with skin
H314 Causes severe skin burns and eye damage
H332 Harmful if inhaled
3. 2-Butoxyethanol
Concentration 3 - 8 % (By Weight)
EC no. 203-905-0
CAS no. 111-76-2
Index no. 603-014-00-0

- 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 dust or mists. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Product can absorb through the skin and cause internal damage which is not immediately apparent. Wear protective rubber gloves and chemical splash goggles or face shield when using this product. If inhalable particles of dusts or mists may occur during use, wear NIOSH approved respiratory protection. Mix ONLY with 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.

Personal protective equipment for first-aid responders
Self-contained breathing apparatus.

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, fog or foam.

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.

Reference to other sections
For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Avoid contact with eyes, skin or clothing. Avoid inhalation of vapor or mists. Use in a well ventilated area. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

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 well ventilated 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

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)

2. Ethanolamine (CAS: 141-43-5)
PEL (Inhalation): 6 mg/m3 (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

PEL (Inhalation): 3 ppm, (ST) 6 ppm (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov

REL (Inhalation): 3 ppm, (ST) 6 ppm (NIOSH)
OSHA Annotated Table Z-1, www.osha.gov

TLV® (Inhalation): 3 ppm (ACGIH)
Eye irritation. Skin irritation

STEL (Inhalation): 6 ppm (ACGIH)
Eye irritation. Skin irritation

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

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

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
Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid contact with clothing or shoes. Wash contaminated items before reuse. Avoid wearing contact lenses when using this product.

Respiratory protection
Wear a NIOSH approved respirator for corrosive dusts or mists.

Thermal hazards
No data available.

Environmental exposure controls
Do not let product enter drains.
SECTION 9: Physical and chemical properties

**Information on basic physical and chemical properties**

- **Appearance/form (physical state, color, etc.):** Yellow-Green Liquid
- **Odor:** Characteristic
- **Odor threshold:** No data available.
- **pH:** >11.5 (1% solution)
- **Melting point/freezing point:** No data available.
- **Initial boiling point and boiling range:** No data available.
- **Flash point:** Non-Combustible
- **Evaporation rate:** No data available.
- **Flammability (solid, gas):** No data available.
- **Upper/lower flammability limits:** No data available.
- **Upper/lower explosive limits:** No data available.
- **Vapor pressure:** No data available.
- **Vapor density:** No data available.
- **Relative density:** >1.0
- **Solubility(ies):** 100% in 120°F Water
- **Partition coefficient: n-octanol/water:** No data available.
- **Auto-ignition temperature:** No data available.
- **Decomposition temperature:** No data available.
- **Viscosity:** >1.0
- **Explosive properties:** No data available.
- **Oxidizing properties:** No data available.

**Other safety information**
No data available.

SECTION 10: Stability and reactivity

10.1 **Reactivity**
Product may react when diluted with water to produce heat up to boiling temperature. Product is highly reactive with acids. Reactions may produce hazardous conditions, including violent splattering of corrosive materials. NEVER mix this product with other chemicals. Mix this product ONLY with water.

10.2 **Chemical stability**
Product is stable under normal storage and usage conditions.

10.3 **Possibility of hazardous reactions**
No data available.

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**
Acid, metals.

10.6 **Hazardous decomposition products**
None are expected under normal storage and usage conditions.

SECTION 11: Toxicological information

**Information on toxicological effects**

- **Acute toxicity**
  Eyes, Skin, Ingestion, Inhalation

- **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.

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 specific data available for this mixture. Potassium Hydroxide and Ethanolamine are known to be 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.

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 of the product
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.

Other disposal recommendations
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: NA 1760
Class: 8
Packing Group: III
Proper Shipping Name: NA 1760, Compounds, Cleaning Liquid, 8, PG II (Contains Potassium Hydroxide)
Reportable quantity (RQ): Potassium Hydroxide
Right-To-Know Hazardous Chemicals: Potassium Hydroxide, Ethylene Glycol Butyl Ether, Ethanolamine
Note: Certain package sizes of this product may qualify for exceptions to DOT’s packaging, labeling and other requirements, and thus may have different DOT shipping names. For bulk shipments, see the shipping documents.

SECTION 15: Regulatory information

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

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
Fire Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components
Potassium hydroxide, CAS-No. 1310-58-3
Ethylene glycol monobutyl ether, CAS: 111-76-2
Ethylene glycol monobutyl ether, CAS: 111-76-2

Pennsylvania Right To Know Components
Potassium hydroxide, CAS-No. 1310-58-3
Ethanolamine, CAS number: 141-43-5
Ethylene glycol monobutyl ether, CAS: 111-76-2

New Jersey Right To Know Components
Potassium hydroxide, CAS-No. 1310-58-3
Ethanolamine, CAS number: 141-43-5

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.