Safety Data Sheet

SECTION 1: Identification

1.1 Product identifier
   - Product name: Work Horse Detergent
   - Product number: 937
   - Brand: Crown Chemical, Inc.

1.2 Other means of identification
   - Work Horse Detergent

1.3 Recommended use of the chemical and restrictions on use
   - Food plant cleaning

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 skin irritation; Causes serious eye irritation

2.1 Classification of the substance or mixture

GHS classification in accordance with: OSHA (29 CFR 1910.1200)
- Skin corrosion/irritation, Cat. 2
- Eye damage/irritation, Cat. 2A

2.2 GHS label elements, including precautionary statements

   Pictogram

   1. Exclamation mark

   Signal word
   - Warning

   Hazard statement(s)
   - H315: Causes skin irritation
   - H319: Causes serious eye irritation
Precautionary statement(s)

P264 Wash hands & skin thoroughly after handling.
P280 Wear protective gloves/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of water/Take off immediately contaminated clothing and wash it before reuse. Call a poison control center or doctor for treatment advice if irritation persists.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.

2.3 Other hazards which do not result in classification
None identified

Statement regarding ingredients of unknown toxicity
Irritant Mixture

SECTION 3: Composition/information on ingredients

3.2 Mixtures
Irritant Mixture

Hazardous components

1. Sodium hypochlorite solution (13% Cl2)
Concentration 30 - 40 % (By Weight)
EC no. 231-668-3
CAS no. 7681-52-9
Index no. 017-011-00-1

- Skin corrosion/irritation, Cat. 1B
- Hazardous to the aquatic environment, short-term (acute), Cat. 1

H314 Causes severe skin burns and eye damage
H400 Very toxic to aquatic life

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. Wear protective rubber gloves and chemical splash goggles or face shield when using this product. Mix ONLY with water. Wash thoroughly after handling.

If inhaled Remove person to fresh air and keep comfortable for breathing. 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 and shoes before reuse. Call a Poison Control Center or doctor for treatment advice if irritation persists.

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.
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, or if large quantities have been ingested or inhaled, 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
Self-contained breathing apparatus.

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).

6.3 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
Put on appropriate protective equipment (see Section 8).

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Avoid contact with eyes, skin or clothing. Avoid inhalation of dust or mists. Use in a well ventilated area. Wash thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities
Keep out of reach of children. Keep containers tightly closed when not in use. Store in a well ventilated area between 60-100°F (15-38°C). Avoid ignition sources.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

1. Sodium hypochlorite solution (13% Cl2) (CAS: 7681-52-9 EC: 231-668-3)

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

**Body protection**
Wash thoroughly after use and before eating, smoking, or using the bathroom. Avoid contamination of clothing or shoes, and wash any contaminated items before reuse. If possible, avoid wearing contact lenses when using this product.

**Respiratory protection**
Wear a NIOSH respirator approved for corrosive vapor and dust when using this product.

**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:** Chlorine
- **Odor threshold:** No data available.
- **pH:** <11.5
- **Melting point/freezing point:** N/A / 45°F
- **Initial boiling point and boiling range:** N/A
- **Flash point:** Non-Combustible
- **Evaporation rate:** No data available.
- **Flammability (solid, gas):** N/A
- **Upper/lower flammability limits:** No data available.
- **Upper/lower explosive limits:** No data available.
- **Vapor pressure:** N/A
- **Vapor density:** >1.0
- **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 is highly reactive with acids and organic materials. Reactions may produce hazardous conditions, including chlorine gas emissions and heat. 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**
NEVER mix this product with other chemicals. Mix this product ONLY with water.
10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Acids and organic materials, metals.

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

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity
Likely Routes of Exposure: Eyes, Skin, Ingestion, Inhalation

Skin corrosion/irritation
Skin contact may cause irritation or pain, redness and blistering.

Serious eye damage/irritation
Eye contact may cause irritation or pain, redness and watering.

Respiratory or skin sensitization
Inhalation may cause coughing, choking and respiratory tract irritation.

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

STOT-single exposure
No data available

STOT-repeated exposure
No data available

Aspiration hazard
Irritation to respiratory tract.

Additional information
No known significant effects or critical hazards.

SECTION 12: Ecological information

Toxicity
No specific data available for this mixture. Sodium Hypochlorite is known to be toxic to aquatic life.

Persistence and degradability
No data

Bioaccumulative potential
No data
Mobility in soil
No data

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
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 regulation.

SECTION 14: Transport information

DOT (US)
Non-Regulated Liquid

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

Massachusetts Right To Know Components
Chemical name: Sodium hypochlorite
CAS number: 7681-52-9

New Jersey Right To Know Components
Common name: SODIUM HYPOCHLORITE
CAS number: 7681-52-9

Pennsylvania Right To Know Components
Chemical name: Hypochlorous acid, sodium salt
CAS number: 7681-52-9

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.