Safety Data Sheet

SECTION 1: Identification

1.1 Product identifier
   Product name: Raindrops Hard Water Rinse Additive
   Product number: 156
   Brand: Crown Chemical, Inc.

1.2 Other means of identification
   Raindrops Hard Water Rinse Additive

1.3 Recommended use of the chemical and restrictions on use
   Machine dishwashing

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.

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

Signal word
Danger

Hazard statement(s)
H319 Causes serious eye irritation
H318 Causes serious eye damage
H314 Causes severe skin burns and eye damage
Safety Data Sheet
Raindrops Hard Water Rinse Additive

Precautionary statement(s)

P264 Wash hands & skin thoroughly after handling.
P280 Wear protective gloves/protective clothing/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.
P310 Immediately call a POISON CENTER/doctor for treatment advice.
P260 Do not breathe dust/fume/gas/mist/vapors/spray.
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.

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. Phosphoric acid
Concentration 5 - 10 % (By Weight)
EC no. 231-633-2
CAS no. 7664-38-2
Index no. 015-011-00-6

- Skin corrosion/irritation, Cat. 1B

H314 Causes severe skin burns and eye damage

2. Isopropanol
Concentration 3 - 8 % (By Weight)
EC no. 414-810-0
CAS no. 67-63-0
Index no. 607-403-00-6

- Flammable liquids, Cat. 2
- Eye damage/irritation, Cat. 2A
- Specific target organ toxicity (single exposure), Cat. 3

H225 Highly flammable liquid and vapor
H319 Causes serious eye irritation
H335 May cause respiratory irritation
H336 May cause drowsiness or dizziness

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 hand thoroughly after handling. 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. 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.

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 where 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).

6.2 Environmental precautions
Do not allow spilled material to enter sewers, waterways or soil.

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
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).

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

1. Isopropyl alcohol (CAS: 67-63-0)
   PEL (Inhalation): 400 ppm (OSHA)
   OSHA Annotated Table Z-1, www.osha.gov
   PEL (Inhalation): 400 ppm, (ST) 500 ppm (Cal/OSHA)
   OSHA Annotated Table Z-1, www.osha.gov
   TLV® (Inhalation): 200 ppm, (ST) 400 ppm; USA (ACGIH)
   OSHA Annotated Table Z-1, www.osha.gov

   PEL (Inhalation): 1 mg/m3; USA (OSHA)
   OSHA Annotated Table Z-1, www.osha.gov
   PEL (Inhalation): 1 mg/m3, (ST) 3 mg/m3; USA (Cal/OSHA)
   OSHA Annotated Table Z-1, www.osha.gov
   REL (Inhalation): 1 mg/m3, (ST) 3 mg/m3; USA (NIOSH)
   OSHA Annotated Table Z-1, www.osha.gov
   TLV® (Inhalation): 1 mg/m3, (ST) 3 mg/m3; 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 hand thoroughly after handling. 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.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

- Appearance/form (physical state, color, etc.): Blue Liquid
- Odor: Characteristic
- Odor threshold: No data available
- pH: <2.0 (1% solution)
Melting point/freezing point: No data available
Initial boiling point and boiling range: No data available
Flash point: Non-Combustible
Evaporation rate: <1.0
Flammability (solid, gas): No data available
Upper/lower flammability limits: No data available
Vapor pressure: No data available
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

SECTION 10: Stability and reactivity

10.1 Reactivity
Product is highly reactive with alkalis. Reactions may produce hazardous conditions, including violent splattering of corrosive materials. Product is reactive with halogens (such as chlorine) and may release chlorine gas if mixed with these 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
Product is not reactive under normal storage and usage conditions.

10.4 Conditions to avoid
Strong oxidizers, bases and acids.

10.5 Incompatible materials
Alkalis, halogens, 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
Irritation and possible damage to eyes and skin. Irritation to respiratory tract, mouth, throat and stomach.

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.

SECTION 12: Ecological information

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

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. 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.

Disposal of contaminated packaging
Dispose of as unused product.

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 III (Contains Phosphoric Acid)
Reportable quantity (RQ): Phosphoric Acid

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
Isopropyl alcohol, CAS number: 67-63-0
Phosphoric acid, CAS number: 7664-38-2

New Jersey Right To Know Components
Isopropyl alcohol, CAS number: 67-63-0
Phosphoric acid, CAS number: 7664-38-2

Pennsylvania Right To Know Components
Isopropyl alcohol, CAS number: 67-63-0
Phosphoric acid, CAS number: 7664-38-2
Sara 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:
Isopropyl alcohol, CAS number: 67-63-0

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

Sara 311/312 Hazards
Fire Hazard, Acute Health Hazard, Chronic 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.