Safety Data Sheet

SECTION 1: Identification

1.1 Product identifier
   Product name: PeraBright 5% Peracetic Acid Solution
   Product number: 262
   Brand: Crown Chemical, Inc.

1.2 Other means of identification
   PeraBright 5% Peracetic Acid Solution

1.3 Recommended use of the chemical and restrictions on use
   Bleaching and deodorizing

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; May intensify fire; oxidizer

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
- Oxidizing liquids, Cat. 2

2.2 GHS label elements, including precautionary statements

Pictogram
   1. Corrosion; 2. Exclamation mark; 3. Flame over circle

Signal word
   Danger

Hazard statement(s)
   H318  Causes serious eye damage
   H314  Causes severe skin burns and eye damage
   H302  Harmful if swallowed
   H272  May intensify fire; oxidizer
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.
P260 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.
P321 Specific treatment (see details on label).
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.
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P220 Keep/Store away from clothing/.../combustible materials.
P221 Take any precaution to avoid mixing with combustibles/...
P370+P378 In case of fire: Use ... to extinguish.

2.3 Other hazards which do not result in classification
None identified

SECTION 3: Composition/information on ingredients

3.2 Mixtures
Corrosive Mixture; Oxidizing Liquid

Components

1. Hydrogen peroxide
Concentration 20 - 30 % (By Weight)
EC no. 231-765-0
CAS no. 7722-84-1
Index no. 008-003-00-9
- Oxidizing liquids, Cat. 1
- Skin corrosion/irritation, Cat. 1A
- Acute toxicity, inhalation, Cat. 4
- Acute toxicity, oral, Cat. 4

H271 May cause fire or explosion; strong oxidizer
H314 Causes severe skin burns and eye damage

2. Sodium dichloroisocyanurate dihydrate
Concentration 1 - 10 % (By Weight)
EC no. 220-767-7
CAS no. 51580-86-0
Index no. 613-030-01-7
- Acute toxicity, oral, Cat. 4
- Eye damage/irritation, Cat. 2A
- Hazardous to the aquatic environment - acute hazard, Cat. 1
- Hazardous to the aquatic environment - long-term hazard, Cat. 1
- Specific target organ toxicity, single exposure, Cat. 3
3. PERACETIC ACID
Concentration 1 - 10 % (By Weight)
EC no. 201-186-8
CAS no. 79-21-0
Index no. 607-094-00-8

- Flammable liquids, Cat. 3
- Organic peroxides, Type D
- Acute toxicity, inhalation, Cat. 4
- Acute toxicity, dermal, Cat. 4
- Acute toxicity, oral, Cat. 4
- Skin corrosion/irritation, Cat. 1A
- Hazardous to the aquatic environment, short-term (acute), Cat. 1

H262 Flammable liquid and vapor
H242 Heating may cause a fire
H302 Harmful if swallowed
H312 Harmful in contact with skin
H314 Causes severe skin burns and eye damage
H332 Harmful if inhaled
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 vapors 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 vapors or mists may occur during use, wear NIOSH approved respiratory protection. Mix ONLY with water. Keep away from heat, sparks, open flames and hot surfaces. Store away from clothing, cardboard, paper, rags and other combustible materials. Take any precaution to avoid mixing with combustibles. Keep only in original container. Keep in cool, well-ventilated area.

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 mouth. Do NOT induce vomiting. Immediately call a poison center or doctor. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms/effects, acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11

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. Monitor exposed individuals for 72 hours for delayed onset of lung injury resulting in pulmonary edema and pneumonitis.

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
Decomposition Byproducts: Oxygen gas.

5.3 Special protective actions for fire-fighters
Evacuate area. Risk of explosion. Decomposition will release of oxygen, which will intensify fire. Closed containers may explode due to heat from fire. Cool with water spray. 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
Do not let product enter drains.

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 locked up. Store away from incompatible materials. See Section 10 for information on Incompatible Materials. Keep out of the reach of children.

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. Hydrogen peroxide (CAS: 7722-84-1)
   PEL (Inhalation): 1.4 mg/m³; USA (OSHA)
   OSHA Annotated Table Z-1, www.osha.gov
   PEL (Inhalation): 1 ppm; USA (Cal/OSHA)
   OSHA Annotated Table Z-1, www.osha.gov
   REL (Inhalation): 1 ppm; USA (NIOSH)
   OSHA Annotated Table Z-1, www.osha.gov
   TLV® (Inhalation): 1 ppm; USA (ACGIH)
   OSHA Annotated Table Z-1, www.osha.gov

2. Sodium dichloroisocyanurate dihydrate (CAS: 51580-86-0 EC: 220-767-7)
   PEL-TWA (Inhalation): 15 mg/m³ (OSHA)
   Inert or Nuisance Dust- Respirable fraction
   TLV® (Inhalation): 3 mg/m³ (ACGIH)
   For Particles (Insoluble or Poorly Soluble) Not Otherwise Specified -respirable

8.2 Appropriate engineering controls
   Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

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

Pictograms

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 these items before reuse. Avoid wearing contact lenses when using this product.

Respiratory protection
Wear a NIOSH respirator approved for corrosive vapors 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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Appearance/form</td>
<td>Colorless Liquid</td>
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<td>Odor</td>
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<tr>
<td>pH</td>
<td>&lt;1.0 (full strength)</td>
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</tbody>
</table>
### Safety Data Sheet

**PeraBright 5% Peracetic Acid Solution**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting point/freezing point</td>
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<tr>
<td>Initial boiling point and boiling range</td>
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<td>Flash point</td>
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<tr>
<td>Evaporation rate</td>
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<td>Flammability (solid, gas)</td>
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</tr>
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<td>Upper/lower flammability limits</td>
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<tr>
<td>Upper/lower explosive limits</td>
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<td>Vapor pressure</td>
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<tr>
<td>Vapor density</td>
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<td>Decomposition temperature</td>
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<tr>
<td>Viscosity</td>
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<td>Explosive properties</td>
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</tr>
<tr>
<td>Oxidizing properties</td>
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</tr>
</tbody>
</table>

**Other safety information**

No data available.

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

Product is highly reactive with acids, bases, metals, oxidizing agents, reducing agents, organic and combustible materials. Reactions may produce hazardous conditions, including violent splattering of corrosive materials and emission of oxygen gas, which is flammable. 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

Acids, bases, metals, reducing agents, organic and combustible materials.

#### 10.6 Hazardous decomposition products

Oxygen gas, potentially causing fire.

### SECTION 11: Toxicological information

#### Information on toxicological effects

**Acute toxicity**

Likely Routes of Exposure: Eye contact. Skin contact. Inhalation. Ingestion.

**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
This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification

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

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. Hydrogen Peroxide is 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.

Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

SECTION 13: Disposal considerations

Disposal of the product
Disposal should be in accordance with applicable Federal, State and local laws and regulations. Local regulations may be more stringent than State or Federal requirements.

Disposal of contaminated packaging
Dispose of as unused product.

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: UN 3149
Class: 8
Packing Group: II
Proper Shipping Name: UN 3149, Hydrogen Peroxide and Peroxyacetic Acid Mixture, Stabilized, 5.1 (8), PG II
Reportable quantity (RQ): None
Marine pollutant: Hydrogen Peroxide
Poison inhalation hazard: None

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
The following components are subject to reporting levels established by SARA Title III, Section 302:
Hydrogen peroxide, CAS-Number: 7722-84-1

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
Reactivity Hazard, Acute Health Hazard, Chronic Health Hazard

New Jersey Right To Know Components
Water, CAS-number: 7732-18-5
Hydrogen peroxide, CAS number: 7722-84-1
Troclosene sodium, dihydrate, CAS: 51580-86-0
PEROXYACETIC ACID, CAS number: 79-21-0

Pennsylvania Right To Know Components
Water, CAS-number: 7732-18-5
Hydrogen peroxide, CAS number: 7722-84-1
Troclosene sodium, dihydrate, CAS: 51580-86-0
Ethaneperoxoic acid, CAS number: 79-21-0

Massachusetts Right To Know Components
Hydrogen peroxide, CAS number: 7722-84-1
Troclosene sodium, dihydrate, CAS: 51580-86-0
Ethaneperoxoic acid, CAS number: 79-21-0

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.