COMPANY IDENTITY: PACKAGING SERVICES CO., INC. DATE: 11/11/08 PAGE 1 OF 4

CROWN MURIATIC ACID PRODUCT IDENTITY:

NEW MSDS DATE: 11/11/2008 SUPERCEDES: 09/17/2004

MATERIAL SAFETY DATA SHEET SECTION 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

This Material Safety Data Sheet conforms to the requirements of ANSI Z400.1, using the International Chemical Safety Cards of the Global Harmonizing System. THIS MSDS COMPLIES WITH 29 CFR 1910.1200 (HAZARD COMMUNICATION STANDARD) IMPORTANT: Read this MSDS before handling & disposing of this product. Pass this information on to employees, customers, & users of this product.

PRODUCT IDENTITY: **CROWN MURIATIC ACID**

COMPANY IDENTITY: PACKAGING SERVICE CO., INC.

COMPANY ADDRESS: 1904 MYKAWA ROAD **COMPANY CITY:** PEARLAND, TX 77581

COMPANY PHONE: 1-281-485-1458 **CHEMTREC PHONE:** 1-800-424-9300

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

CONTAINS:

65-75% WATER (7732-18-5)

HYDROCHLORIC ACID (7647-01-0) [231-595-7] 25-35% Number in parentheses is CAS #, number in brackets is European EC #.

MURAD3 SECTION 3. HAZARDS IDENTIFICATION

RISK STATEMENTS:

R36/37/38 Irritating to eyes, respiratory system and skin.

R23 Toxic by inhalation.

SAFETY STATEMENTS:

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S9 Keep container in a well-ventilated place.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S26 In case of accident, or if you feel unwell, seek medical advice immediately. (Show the label where S45

If swallowed, do not induce vomiting; seek medical advice immediately and show this container or S62

label.

SECTION 4. FIRST AID MEASURES

EYE CONTACT: For eyes, flush with plenty of water for 15 minutes & get medical attention.

SKIN CONTACT: In case of contact with skin immediately remove contaminated clothing. Wash thoroughly with soap & water. Wash contaminated clothing before reuse.

INHALATION: After high vapor exposure, remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, trained personnel should immediately begin artificial respiration. If the heart has stopped, trained personnel should immediately begin cardiopulmonary resuscitation (CPR).

SWALLOWING: Rinse mouth. Do NOT induce vomiting. GET MEDICAL ATTENTION IMMEDIATELY. Do NOT give liquids to an unconscious or convulsing person.

SECTION 5. FIRE FIGHTING MEASURES

FIRE & EXPLOSION PREVENTIVE MEASURES: Not Applicable.

EXTINGUISHING MEDIA: In case of fire in surroundings, use appropriate extinguishing media.

SPECIAL FIRE FIGHTING PROCEDURES: Water spray may be ineffective on fire but can protect fire-fighters & cool closed containers. Use fog nozzles if water is used. Do not enter confined fire-space without full bunker gear. (Helmet

COMPANY IDENTITY: PACKAGING SERVICES CO., INC. DATE: 11/11/08
PRODUCT IDENTITY: CROWN MURIATIC ACID PAGE 2 OF 4

NEW MSDS DATE: 11/11/2008 SUPERCEDES: 09/17/2004

with face shield, bunker coats, gloves & rubber boots). Use NIOSH approved positive-pressure self-contained breathing apparatus.

UNUSUAL EXPLOSION AND FIRE PROCEDURES: Noncombustible. Reacts with most metals producing hydrogen which is extremely flammable & may explode. Applying to hot surfaces requires special precautions. Closed containers may explode if exposed to extreme heat.

SECTION 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PROTECTIVE MEASURES: EVACUATE DANGER AREA! Consult an expert! Keep unprotected personnel away. Use complete chemical protective suit with self-contained breathing apparatus.

CONTAINMENT AND CLEAN-UP MEASURES: Stop spill at source. Dike and contain. Collect leaking & spilled liquid in sealable containers as far as possible.

SECTION 7. HANDLING AND STORAGE

HANDLING: Use only with adequate ventilation. Avoid breathing of vapor or spray mist. Do not get in eyes, on skin or clothing. Wear OSHA Standard full face shield. Consult Safety Equipment Supplier. Wear gloves, apron & footwear impervious to this material. Wash clothing before reuse. NEVER pour water into this substance. When dissolving or diluting, always add it slowly to the water.

STORAGE: Keep separated from strong oxidants, strong bases, combustible & reducing substances, metals. Keep cool. Keep dry. Keep inside a well-ventilated room. Do not store above 49 C/120 F. Keep container tightly closed & upright when not in use to prevent leakage. Reacts with most metals producing hydrogen which is extremely flammable & may explode. Wear full face shield, gloves & full protective clothing when opening or handling. When empty, drain completely, replace bungs securely.

MURAD3 SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

RESPIRATORY EXPOSURE CONTROLS: A respiratory protection program that meets OSHA 29 CFR 1910.134 and ANSI Z86.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

VENTILATION

LOCAL EXHAUST:

MECHANICAL (GENERAL):

SPECIAL:

OTHER:

Necessary

None

None

Please refer to ACGIH document, "Industrial Ventilation, A Manual of Recommended Practices", most recent edition, for details.

PERSONAL PROTECTIONS: Wear OSHA Standard full face shield. Consult Safety Equipment Supplier. Wear gloves, apron & footwear impervious to this material. Wash clothing before reuse.

WORK & HYGIENIC PRACTICES: Provide readily accessible eye wash stations & safety showers. Wash at end of each workshift & before eating, smoking or using the toilet. Promptly remove clothing that becomes contaminated. Destroy contaminated leather articles. Launder or discard contaminated clothing.

SECTION 9. PHYSICAL DATA

APPEARANCE: Liquid, Water-White

ODOR: Sharp, acid

BOILING RANGE: 81 95 100 C / 178 204 212 F

AUTO IGNITION TEMPERATURE:

LOWER FLAMMABLE LIMIT IN AIR (% by vol):

FLASH POINT (TEST METHOD):

FLAMMABILITY CLASSIFICATION:

Not Applicable
Non-Combustible

GRAVITY @ 68/68 F / 20/20 C:

SPECIFIC GRAVITY (Water=1): 1.160
POUNDS/GALLON: 9.663

COMPANY IDENTITY: PACKAGING SERVICES CO., INC. DATE: 11/11/08
PRODUCT IDENTITY: CROWN MURIATIC ACID PAGE 3 OF 4

NEW MSDS DATE: 11/11/2008 SUPERCEDES: 09/17/2004

 VOC'S (>0.44 Lbs/Sq In):
 0.0 Vol. % / 0.0 g/L / 0.000 Lbs/Gal

 TOTAL VOC'S (TVOC):
 0.0 Vol. % / 0.0 g/L / 0.000 Lbs/Gal

 NONEXEMPT VOC'S (CVOC):
 0.0 Vol. % / 0.0 g/L / 0.000 Lbs/Gal

 HAZARDOUS AIR POLLUTANTS (HAPS):
 31.0 Wt. % / 323.8 g/L / 2.697 Lbs/Gal

VAPOR PRESSURE (mm of Hg) @ 20 C 17.1

NONEXEMPT VOC PARTIAL PRESSURE (mm of Hg @ 20 C) 0.0

VAPOR DENSITY (air=1): 0.7

WATER ABSORPTION: Complete pH (Neutrality): 0.0

REFRACTIVE INDEX: 1.324

SECTION 10. STABILITY & REACTIVITY

STABILITY: Stable but Reacts with most metals producing hydrogen, which is extremely flammable & may explode.

CONDITIONS TO AVOID: Isolate from oxidizers, alkalis, heat, & open flame.

MATERIALS TO AVOID: The substance is a strong acid, reacts violently with bases and is corrosive, Reacts violently with strong oxidants, forming toxic gas (chlorine). Reacts violently with strong bases, causing fire & explosion hazard. Attacks many metals, forming flammable/explosive gas (hydrogen).

HAZARDOUS DECOMPOSITION: Hydrogen Chloride, Phosgene from heating.

HAZARDOUS POLYMERIZATION: Will not occur.

MURAD3 SECTION 11. TOXICOLOGICAL INFORMATION

MATERIAL CAS# TWA (OSHA) TLV (ACGIH) HAP None Known Water 7732-18-5 None Known No Hydrochloric Acid 7647-01-0 5 ppm 2 ppm Yes Each component showing 'Yes' under "HAP" is an EPA Hazardous Air Pollutant.

MATERIAL CAS # CEILING STEL(OSHA/ACGIH)
Hydrochloric Acid 7647-01-0 None Known 5 ppm

ACUTE HAZARDS

EYE & SKIN CONTACT: Severe burns to skin, defatting, dermatitis. Severe burns to eyes, redness, tearing, blurred vision. Liquid can cause severe skin & eye burns. Wash thoroughly after handling.

INHALATION: Severe respiratory tract irritation may occur. Vapor harmful.

SWALLOWING: Harmful or fatal if swallowed. The symptoms of chemical pneumonitis may not show up for a few days.

SUBCHRONIC HAZARDS/CONDITIONS AGGRAVATED

CONDITIONS AGGRAVATED: Persons with severe skin, liver or kidney problems should avoid use.

CHRONIC HAZARDS

CANCER, REPRODUCTIVE & OTHER CHRONIC HAZARDS: This product has no carcinogens listed by IARC, NTP, NIOSH, OSHA or ACGIH, as of this date, greater or equal to 0.1%.

SECTION 12. ECOLOGICAL INFORMATION

MAMMALIAN INFORMATION: No mammalian information is available on this product.

AQUATIC ANIMAL INFORMATION: No aquatic environmental information is available on this product.

MOBILITY: This material is a mobile liquid.

COMPANY IDENTITY: PACKAGING SERVICES CO., INC. DATE: 11/11/08 **CROWN MURIATIC ACID** PAGE 4 OF 4 PRODUCT IDENTITY:

SUPERCEDES: 09/17/2004 **NEW MSDS DATE:** 11/11/2008

DEGRADABILITY: This product is partially biodegradable.

ACCUMULATION: This product does not accumulate or biomagnify in the environment.

SECTION 13. DISPOSAL CONSIDERATIONS

Processing, use or contamination may change the waste management options. Recycle / dispose of observing national, regional, state, provincial and local health, safety & pollution laws. If in doubt, contact appropriate agencies.

SECTION 14. TRANSPORT INFORMATION

IF CONTAINER HAS > PRODUCT RQ (SEE SECTION 15) PUT "RQ," BEFORE SHIPPING NAME.

DOT SHIPPING NAME: UN1789, Hydrochloric Acid, 8, PG-II

(CORROSIVE) DRUM LABEL:

IATA / ICAO: UN1789, Hydrochloric Acid, 8, PG-II UN1789, Hydrochloric Acid, 8, PG-II IMO / IMDG:

EMERGENCY RESPONSE GUIDEBOOK NUMBER: 154

SECTION 15. REGULATORY INFORMATION MURAD3

EPA REGULATION: SARA SECTION 311/312 HAZARDS: Acute Health

All components of this product are on the TSCA list.

SARA Title III Section 313 Supplier Notification: This product contains the indicated <*> toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning & Community Right-To-Know Act of 1986 & of 40 CFR 372. This information must be included in all MSDSs that are copied and distributed for this material.

SARA TITLE III INGREDIENTS WT. % (REG. SECTION) CAS# RQ(LBS) *Hydrochloric Acid 7647-01-0 <40 (302,311,312,313) 5000

> 12500 LB / 5682 KG OF THIS PRODUCT IN 1 CONTAINER EXCEEDS THE "RQ" OF HYDROCHLORIC ACID. Any release equal to or exceeding the RQ must be reported to the National Response Center (800-424-8802) and appropriate state and local regulatory agencies as described in 40 CFR 302.6 and 40 CFR 355.40 respectively. Failure to report may result in substantial civil and criminal penalties. State & local regulations may be more restrictive than federal regulations.

STATE REGULATIONS: CALIFORNIA PROPOSITION 65: This product contains no chemicals known to the State of California to cause cancer & reproductive toxicity.

INTERNATIONAL REGULATIONS: The components of this product are listed on the chemical inventories of the following countries: Australia, Canada, China, Europe (EINECS), Japan, Korea, United Kingdom.

SECTION 16. OTHER INFORMATION

HAZARD RATINGS:

HEALTH (NFPA): 3 HEALTH (HMIS): 3 FLAMMABILITY: 0 REACTIVITY: 0

(Personal Protection Rating to be supplied by user based on use conditions.) This information is intended solely for the use of individuals trained in the NFPA & HMIS hazard rating systems.

EMPLOYEE TRAINING: See Section 3 for Risk & Safety Statements. Employees should be made aware of all hazards of this material (as stated in this MSDS) before handling it.

NOTICE: The supplier disclaims all expressed or implied warranties of merchantability or fitness for a specific use, with respect to the product or the information provided herein, except for conformation to contracted specifications. All information appearing herein is based upon data obtained from manufacturers and/or recognized technical sources. While the information is believed to be accurate, we make no representations as to its accuracy or sufficiency. Conditions of use are beyond our control, and therefore users are responsible for verifying the data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product. Users also assume all risks in regards to the publication or use of, or reliance upon, information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or process. Unless updated, this Material Safety Data Sheet is valid until 11/11/2011.