

# HARLAN INTERNATIONAL MATERIAL SAFETY DATA SHEET

## HARLAN – EXCELYTE; EPA REG. #82341-1

### SECTION 1 :=====IDENTIFICATION=====

Effective Date: 06/01/13

Revised: 06/01/13

Name and Address:

Phone: (214)-449-7807

Emergency Phone: CHEMTREC (800)-424-9300

HARLAN INTERNATIONAL, INC.  
14 SOUTH HOLLAND ROAD  
MANSFIELD, TX. 76063

Chemical Name: NOT APPLICABLE, MIXTURE

Synonyms: N.A.

D.O.T. Hazard Class: PRODUCT IS NOT DOT REGULATED

D.O.T. Shipping Name: PRODUCT IS NOT DOT REGULATED

Formula: SEE SECTION II

Chemical Family: N.A.

ID No.: NONE

NFPA Profile: Health 1; Flammability 0; Reactivity 0

### SECTION 2 :=====COMPOSITION & INGREDIENT INFORMATION=====

| Components        | CAS Number | Approximate (%) by Wt. |
|-------------------|------------|------------------------|
| Hypochlorous acid | 7790-92-3  | <0.05%                 |
| Water             | 7732-18-5  | <99%                   |

The product contains no hazardous components

The product contains 500 +/- ppm Free Available Chlorine (FAC)

Toxicity and Exposure Limits to Chlorine

TLV/TWA: 1 ppm (3 mg/cubic meter)

TLV/STEL: 3 ppm (9 mg/cubic meter)

Acute Oral LD<sub>50</sub> in rats: 0.73 g/kg

Dermal LD<sub>50</sub> in rates: 1.26-2.0 g/kg

### SECTION 3 :=====PHYSICAL & CHEMICAL PROPERTIES=====

|                                      |        |                                    |  |
|--------------------------------------|--------|------------------------------------|--|
| <b>Physical State:</b>               | Liquid | <b>Specific Gravity (Air = 1):</b> | 1.00 – 1.06 g/ml                         |
| <b>Boiling Point (°C):</b>           | 100    | <b>Density:</b>                    | 8.34 lbs/gal.                            |
| <b>Melting Point (°C):</b>           | N.A.   | <b>Appearance/Color/Odor:</b>      | Clear w/faint chlorinous or ozonous odor |
| <b>Flash Point (°C):</b>             | N.A.   | <b>Evaporation Rate:</b>           | Same as Water                            |
| <b>Vapor Pressure (mm Hg @ 20°):</b> | N.A.   | <b>Solubility in Water:</b>        | Complete                                 |
| <b>Vapor Density (Air = 1):</b>      | N.D.   | <b>pH:</b>                         | 6.3 – 6.8                                |

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### SECTION 4 :=====FIRE & EXPLOSION HAZARD INFORMATION=====

The product is not flammable or explosive.

### SECTION 5 :=====HEALTH EFFECTS INFORMATION=====

Under normal conditions, the likelihood of any adverse health effect is low

**Exposure Limits:** No exposure limits established for the product by ACGIH or OSHA

**Skin Contact:** If irritation occurs, wash affected area with water.

**Eye Contact:** If irritation occurs, flush eyes with water.

**Ingestion:** Drink an 8 oz glass full of water.

**Inhalation:** If breathing problems develop, move away from product and into fresh air.

**Medical Conditions generally recognized as being aggravated by exposure to product:** N.A.

**Primary route(s) of exposure:** Inhalation of product vapors or fumes is the most common route of exposure in occupational settings.

**Developmental/Reproductive Toxicity:** No conclusion has been made based on human and animal studies.

**Carcinogenicity:** No conclusion on the carcinogenicity of chlorine has been made based on the limited information available from human and animal studies. Neither the product nor any of its constituents are listed in the latest NTP Annual Report on Carcinogens or has been found to be a potential carcinogen in the latest IARC Monograph or by OSHA>

**Cytogenecity:** Product does not possess cytogenetic activity based on the test results on chromosome induction operations in the bone marrow cells of mice.

### SECTION 6 :=====REACTIVITY DATA=====

**Stability:** Loses its level of available chlorine at high temperatures and when exposed to direct sunlight.

**Conditions to Avoid:** Avoid accidental or uncontrolled contact of product with acids and/or hydrogen peroxide.

**Hazardous Decomposition Products:** None.

**Hazardous Polymerization:** Will not occur.

### SECTION 7 :=====SPILL, LEAK & DISPOSAL PROCEDURES=====

Product is <0.9% sodium chloride (salt) solution and <0.05% available chlorine. Some localities allow such concentrations to be sent to open storm sewers; however, local environmental regulatory requirements should be followed. If desired, spills can be washed to sewer with plenty of water, or neutralized using sodium sulfite or sodium thiosulfate.

### SECTION 8 :=====REACTIVITY DATA=====

**OSHA Labels:** None required

**D.O.T. Proper Shipping Name, Hazard Class, Un/NA Number Packing Group, RQ (if needed):** Not D.O.T. regulated. No D.O.T. label required.

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### SECTION 9 :====CONTROL MEASURES/PERSONAL PROTECTIVE EQUIPMENT=====

No personal protective equipment is required under normal conditions. The following suggestions should be considered in case of accidental chlorine release due to acidification.

**Ventilation:** open air of good room ventilation is normally adequate for the safe use of the product. Avoid breathing any vapor fumes resulting from acid ventilation.

**Respiratory Protection:** In accordance with OSHA regulations ( 29 CFR 1910.134 and 29 CFR 1910.1000) fogging or spraying applications may require worker respiratory protection, such as (1) NIOSH/MSHA approved air-purifying respirators, or (2) NIOSH/MSHA approved canister/cartridge facial respirators for chlorine/acid vapors.

**Eye Protection:** Although product is designed to be safe for eyes, good manufacturing and laboratory practices recommend the use of chemical safety goggles for all applications involving chemical handling.

**Protective Clothing:** Although product is designed to be safe for skin, good manufacturing and laboratory practices recommend that at a minimum, rubber, neoprene or other chemically impervious gloves be worn for all applications involving chemical handling.

### SECTION 10 :=====REGULATORY INFORMATION=====

**TSCA No:** All chemicals in this product are listed on the EPA TSCA Inventory list.

**CERCLA/SARA:** This product has been reviewed according to the EPA “Hazard Categories” promulgated under section 311 and 312 of SARA. It does not fall in any listed category and poses no risk of immediate (acute) health hazard, delayed (chronic) health hazard, fire hazard, or sudden release of pressure and is not reactive (see 29 CFR 1910.1200).

**OSHA Hazard Communication Standard:** This product is not a “Hazardous Chemical” as defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**Clean Air Act:** N.A.

**Product Label Text Hazard Information:**

- Avoid contact with eyes and skin
- Wash hands after handling product
- Refer to MSDS
- Keep out of reach of children

The data contained in this Material Safety Data Sheet has been prepared based upon an evaluation of the ingredients contained in the product, their concentration in the product and potential interactions. The information is offered in good faith and is believed to be accurate. It is furnished to the customer who is urged to study it carefully to become aware of hazards, if any, in the storage, handling, use and disposal of the product; and to insure their employees are properly informed and advised of all safety precautions required. The information is furnished for compliance with the “Occupational Safety and Health Act” of 1970, the “Hazards Communication Act” of 1983 as well as various other Federal, State and Local regulations. Use or dissemination of all or part of this information for any other purpose is illegal.