

ITEM: 2LEF7 - Clinging Toilet Bowl Cleaner 1 qt

MSDS: B1697

ORDER: 0084114288

LP NUMBER: U841328274

MATERIAL SAFETY DATA SHEET (MSDS)

This MSDS should be attached or kept with the respective product with which it is associated.

MATERIAL SAFETY DATA SHEET - B1697

Associated Grainger Items
2LEF7

MATERIAL SAFETY DATA SHEET

TOUGH GUY

CLINGING 9.5% HYDROCHLORIC ACID BOWL CLEANER

	HMIS	NFPA
HEALTH	3	3
FIRE HAZARD	0	0
REACTIVITY	0	0

PERSONAL PROTECTIVE EQUIPMENT:
CHEMICAL GOGGLES
GLOVES
BOOTS

VERSION NUMBER: 1

PREPARATION DATE: 2007-09-17

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: CLINGING 9.5% HYDROCHLORIC ACID BOWL CLEANER

MSDS #: MS0600449

PRODUCT CODE: 2LEF7

RECOMMENDED USE: RESTROOM CARE.

MANUFACTURER, IMPORTER, SUPPLIER:

MANUFACTURED FOR:
W. W. GRAINGER, INC.
100 GRAINGER PARKWAY
LAKE FOREST, IL 60045-5201

PHONE: 1-847-535-1000

TECHNICAL SERVICE: 1-847-535-5400

EMERGENCY TELEPHONE NUMBER: 1-800-983-4582

RECEIVED
MAY 18 2011
MAINTENANCE DEPT

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:
DANGER. CORROSIVE. CAUSES SKIN AND EYE BURNS. HARMFUL OR FATAL IF SWALLOWED.

PRINCIPLE ROUTES OF EXPOSURE: EYE CONTACT. SKIN CONTACT. INHALATION.

EYE CONTACT: CORROSIVE. CAUSES PERMANENT EYE DAMAGE, INCLUDING BLINDNESS.

SKIN CONTACT: CORROSIVE. CAUSES PERMANENT DAMAGE.

INHALATION:
MAY CAUSE IRRITATION AND CORROSIVE EFFECTS TO NOSE, THROAT AND RESPIRATORY TRACT.

INGESTION: CORROSIVE. CAUSES BURNS TO MOUTH, THROAT AND STOMACH.

3. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS:

INGREDIENT(S)	CAS #	WEIGHT %
HYDROCHLORIC ACID	7647-01-0	10 - 20%

n-ALKYL (60% C14, 30% C16, 5% C12, 5% C18) DIMETHYL BENZYL AMMONIUM CHLORIDE	68391-01-5	<0.1%
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n-ALKYL (68% C14, 32% C16) DIMETHYL ETHYLBENZYL AMMONIUM CHLORIDE	68956-79-6	<0.1%
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INGREDIENT(S)	LD50 ORAL - RAT	LD50 DERMAL - RABBIT	LC50 INHALATION - RAT
HYDROCHLORIC ACID	=700 MG/KG	>5010 MG/KG	=3124 PPM (1 H)
n-ALKYL (60% C14, 30% C16, 5% C12, 5% C18) DIMETHYL BENZYL AMMONIUM CHLORIDE	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE
n-ALKYL (68% C14, 32% C16) DIMETHYL ETHYLBENZYL AMMONIUM CHLORIDE	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE

4. FIRST AID MEASURES

EYE CONTACT:
HOLD EYE OPEN AND RINSE SLOWLY AND GENTLY WITH WATER FOR 15-20 MINUTES. REMOVE CONTACT LENSES, IF PRESENT, AFTER THE FIRST 5 MINUTES, THEN CONTINUE RINSING EYES. CALL MEDICAL ATTENDANT, MEDICAL DOCTOR, OR POISON CONTROL CENTER.

SKIN CONTACT:

TAKE OFF CONTAMINATED CLOTHING. RINSE SKIN IMMEDIATELY WITH PLENTY OF WATER FOR 15-20 MINUTES. CALL MEDICAL ATTENDANT, MEDICAL DOCTOR, OR POISON CONTROL CENTER.

INHALATION:
IF BREATHING IS AFFECTED, REMOVE TO FRESH AIR. IF PERSON IS NOT BREATHING, CALL 911 OR AN AMBULANCE AND THEN USE ARTIFICIAL RESPIRATION, PREFERABLY BY MOUTH TO MOUTH, IF POSSIBLE. CALL MEDICAL ATTENDANT, MEDICAL DOCTOR, OR POISON CONTROL CENTER.INGESTION:
CALL MEDICAL ATTENDANT, DOCTOR, OR POISON CONTROL CENTER IMMEDIATELY. HAVE PERSON RINSE A GLASS OF WATER TO SWALLOW. DO NOT INDUCE VOMITING UNLESS TOLD TO DO SO BY POISON CONTROL CENTER OR DOCTOR. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.NOTES TO PHYSICIAN:
POTENTIAL MIXTURE DAMAGE FROM INGESTION MAY REQUIRE THE USE OF GASTRIC LAVAGE.AGGRAVATED MEDICAL CONDITIONS:
INDIVIDUALS WITH CHRONIC RESPIRATORY DISORDERS SUCH AS ASTHMA, CHRONIC BRONCHITIS, EMPHYSEMA, ETC., MAY BE MORE SUSCEPTIBLE TO IRRITATING EFFECTS.

5. FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:
EXTINGUISH FIRE USING AGENT SUITABLE FOR SURROUNDING FIRE. USE DRY CHEMICAL, CO₂, WATER SPRAY OR FOAM.

SPECIFIC HAZARDS: NOT APPLICABLE

UNUSUAL HAZARDS: CORROSIVE MATERIAL (SEE SECTIONS 8 AND 10).

SPECIFIC METHODS: NO SPECIAL METHOD REQUIRED

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS:
AS IN ANY FIRE, WEAR SELF-CONTAINED BREATHING APPARATUS PRESSURE-DEMAND, NEAR/NEARLY APPROVED OR EQUIVALENT, AND FULL PROTECTIVE GEAREXTINGUISH MEDIA WHICH MUST NOT BE USED FOR SAFETY REASONS:
NO INFORMATION AVAILABLE

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:
PUT ON APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (SEE SECTION 8.).ENVIRONMENTAL PRECAUTIONS AND CLEAN-UP METHODS:
USE APPROPRIATE CONTAINMENT TO AVOID ENVIRONMENTAL CONTAMINATION. SOAK UP WITH INERT ABSORBENT MATERIAL. SCRAPE UP AND SHOVEL INTO SUITABLE CONTAINERS FOR DISPOSAL. WIPER IS SUITABLE AND CLOSED CONTAINERS FOR DISPOSAL. USE WATER RINSER FOR FINAL CLEAN-UP.

7. HANDLING AND STORAGE

HANDLING:
AVOID CONTACT WITH SKIN, EYES AND CLOTHING. DO NOT TASTE OR SWALLOW. AVOID BREATHING VAPORS OR FOGS. WORK WITH ADEQUATE VENTILATION. REMOVE AND WASH CLOTHING IMMEDIATELY. CLEAN SHOES AND FOOTWEAR BEFORE RE-USE. WASH THOROUGHLY AFTER HANDLING. PRODUCT RESIDUE MAY REMAIN ON/IN EMPTY CONTAINERS. ALL PRECAUTIONS FOR HANDLING THE PRODUCT MUST BE USED IN HANDLING THE EMPTY CONTAINERS. DO NOT MIX WITH AMMONIA, BLEACH, OR OTHER CHLORINATED COMPOUNDS. CAN LEAK TO RELEASE CHLORINE GAS. FOR COMMERCIAL AND INDUSTRIAL USE ONLY.STORAGE:
PROTECT FROM FREEZING. KEEP TIGHTLY CLOSED IN A DRY, COOL AND WELL-VENTILATED PLACE. KEEP OUT OF REACH OF CHILDREN.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

ENGINEERING MEASURES TO REDUCE EXPOSURE:
GOOD GENERAL VENTILATION SHOULD BE SUFFICIENT TO CONTROL AIRBORNE LEVELS. RESPIRATORY PROTECTION IS NOT REQUIRED IF GOOD VENTILATION IS MAINTAINED.

PERSONAL PROTECTIVE EQUIPMENT:

EYE PROTECTION: CHEMICAL RESISTANT GOGGLES

HAND PROTECTION: CHEMICAL RESISTANT GLOVES

SKIN AND BODY PROTECTION:
PROTECTIVE FOOTWEAR. IF WORK EXPOSURE IS POSSIBLE, WEAR SUITABLE PROTECTIVE CLOTHING AND FOOTWEAR.RESPIRATORY PROTECTION:
IN CASE OF INSUFFICIENT VENTILATION, USE SUITABLE RESPIRATORY EQUIPMENT. A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA'S 29 CFR 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE USED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE.HYGIENE MEASURES:
HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICE

INGREDIENT(S)	CAS #	ACGIH	OSHA	MEXICO
HYDROCHLORIC ACID	7647-01-0	100 PPM (CEILING)	5 PPM (CEILING)	5 PPM (CEILING)
		7 MG/M3 (CEILING)	7 MG/M3 (CEILING)	7 MG/M3 (CEILING)

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: LIQUID

BULK DENSITY: NO INFORMATION AVAILABLE

pH: <1

DILUTION pH: NO INFORMATION AVAILABLE.

APPEARANCE: LIQUID

VAPOR DENSITY: NO INFORMATION AVAILABLE

COLOR: BLUE

EVAPORATION RATE: NO INFORMATION AVAILABLE

ODOR: MINTY

BOILING POINT/RANGE: NOT DETERMINED

SPECIFIC GRAVITY: 1.048

MELTING POINT/RANGE: NOT DETERMINED

DENSITY: 8.72 LBS/GAL

DECOMPOSITION TEMPERATURE: NOT DETERMINED

VOC: 1% *

AUTOIGNITION TEMPERATURE: NO INFORMATION AVAILABLE

FLASH POINT: NO INFORMATION AVAILABLE

PARTITION COEFFICIENT (n-OCTANOL/WATER): NO INFORMATION AVAILABLE

SOLUBILITY: COMPLETELY SOLUBLE

SOLUBILITY IN OTHER SOLVENTS: NO INFORMATION AVAILABLE

VISCOSITY: NO INFORMATION AVAILABLE

ELEMENTAL PHOSPHORUS: 0 %P

* - TITLE 17, CALIFORNIA CODE OF REGULATIONS, DIVISION 3, CHAPTER 1, SUBCHAPTER 8.5, ARTICLE 2, CONSUMER PRODUCTS, SECTIONS 94508

10. STABILITY AND REACTIVITY

STABILITY: THE PRODUCT IS STABLE

POLYMERIZATION: HAZARDOUS POLYMERIZATION DOES NOT OCCUR

HAZARDOUS DECOMPOSITION PRODUCTS: NONE REASONABLY FORESEEABLE.

MATERIALS TO AVOID: AMMONIA. DO NOT MIX WITH CHLORINATED PRODUCTS.

CONDITIONS TO AVOID:
DO NOT FREEZE. DO NOT MIX WITH ANY OTHER PRODUCT OR CHEMICAL.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY: CORROSIVE

COMPONENT INFORMATION: SEE SECTION 3

CHRONIC TOXICITY: NONE KNOWN

SPECIFIC EFFECTS:

CARCINOGENIC EFFECTS: NONE KNOWN

MUTAGENIC EFFECTS: NONE KNOWN

REPRODUCTIVE TOXICITY: NONE KNOWN

TARGET ORGAN EFFECTS: NONE KNOWN

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL INFORMATION: NO DATA AVAILABLE

13. DISPOSAL CONSIDERATIONS

DO NOT CONTAMINATE WATER, FOOD, OR FEED BY STORAGE OR DISPOSAL

PESTICIDE STORAGE:

STORE IN A COOL, DRY LOCATION, IN LOCKED AREA INACCESSIBLE TO CHILDREN.
DO NOT REUSE EMPTY CONTAINER.

PESTICIDE DISPOSAL:

PESTICIDE WASTES ARE ACUTELY HAZARDOUS. IMPROPER DISPOSAL OF EXCESS
PESTICIDE, SPRAY MIXTURE, OR RINSATE IS A VIOLATION OF FEDERAL LAW.

CONTAINER DISPOSAL:

WRAP EMPTY CONTAINER IN PLASTIC BAG AND DISCARD IN TRASH OR RINSE
THOROUGHLY WITH WATER AND RECYCLE.

14. TRANSPORT INFORMATION

DOT/TDG:

PLEASE REFER TO THE BILL OF LADING/RECEIVING DOCUMENTS FOR UP TO DATE
SHIPPING INFORMATION

15. REGULATORY INFORMATION

INTERNATIONAL INVENTORIES:

ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON THE FOLLOWING INVENTORIES:
U.S.A. (TSCA).

U.S. REGULATIONS:

EPA REG. NO.: 8155-6-84533

CALIFORNIA PROPOSITION 65:

THIS PRODUCT IS NOT SUBJECT TO THE REPORTING REQUIREMENTS UNDER
CALIFORNIA'S PROPOSITION 65

CERCLA/SARA:

INGREDIENTS CAS # WEIGHT % CERCLA/SARA SECTION 302 SECTION
PQ (LBS) TPQ (LBS) 313

HYDROCHLORIC ACID 7647-01-0 25% 5000 X

INGREDIENTS CAS # CAA HA CAA CWA CWA PRIORITY POLLUTANTS

HYDROCHLORIC ACID X

SARA 311/313 HAZARD CATEGORIES:

IMMEDIATE

DELAYED

FIRE

REACTIVITY

SUDDEN RELEASE OF PRESSURE

OTHER INFORMATION

REASON FOR REMEDIATION: NOT AVAILABLE

PREPARED BY: T-12345

ADDITIONAL REMARKS: NONE

NOTICE TO USER:

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TECHNICALLY RELIABLE. IT DOES NOT CONSTITUTE A WARRANTY, EXPRESS
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FOR ANY PARTICULAR USE AND IN COMPLIANCE WITH ALL FEDERAL, STATE, PROVINCIAL
AND LOCAL LAWS AND REGULATIONS.

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