



Common Name: NON-ACID BATH & BOWL CLEANER

Manufacturer: W.W. GRAINGER

MSDS Revision Date: 9/11/2012

Grainger Item Number(s): 2LEF8

Manufacturer Model Number(s):

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TOUGH GUY (TM)

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION



NAME: NON-ACID BATH & BOWL CLEANER

USE: BATHROOM CLEANER

LABEL BRAND: TOUGH GUY

MSDS #: 3760064N

CODE #: 4569481, 2LEF8

W.W. GRAINGER, INC.
100 GRAINGER PARKWAY
LAKE FOREST, IL 60045
USA

EMERGENCY PHONE #: 1-800-983-4582 USA (24/7)

PHONE #: 1-847-535-1000

TECHNICAL SERVICE #: 1-847-793-5187

REVIEWED: 9-11-12

REVISED: 9-11-12

SECTION REVISED: 1

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

CAUTION!

MAY BE IRRITATING TO EYES AND SKIN.

PRINCIPLE ROUTES OF EXPOSURE: EYES, INGESTION

POTENTIAL ACUTE HEALTH EFFECTS:

EYES: MAY BE MODERATELY IRRITATING TO EYES.

SKIN: MAY BE MILDLY IRRITATING TO SKIN. HARMFUL IF ABSORBED THROUGH SKIN.

INHALATION: MAY BE IRRITATING TO NOSE, THROAT AND RESPIRATORY TRACT.

INGESTION:

MAY BE IRRITATING TO MOUTH, THROAT AND STOMACH. MAY CAUSE ABDOMINAL DISCOMFORT, NAUSEA, VOMITING AND DIARRHEA.

MEDICAL CONDITIONS AGGRAVATED:

PERSONS WITH PRE-EXISTING SKIN DISORDERS MAY BE MORE SUSCEPTABLE TO IRRITATING EFFECTS.

3. COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT	CAS #	% BY WT	LC50/LD50
N-ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE	68391-01-5	0.105	N.A.P.
N-ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE	68956-79-6	0.105	N.A.P.
DIETHYLENE GLYCOL MONOBUTYL ETHER	112-34-5	1.0 - 5.0	N.A.P.

STATE RIGHT TO KNOW: EXEMPT

4. FIRST AID MEASURES

EYES:

HOLD EYE OPEN AND RINSE SLOWLY AND GENTLY WITH WATER FOR 15 - 20 MINUTES. REMOVE CONTACT LENSES, IF PRESENT, AFTER FIRST FIVE MINUTES, THEN CONTINUE RINSING EYE.

SKIN:

TAKE OFF CONTAMINATED CLOTHING. RINSE SKIN IMMEDIATELY WITH PLENTY OF WATER FOR 15 - 20 MINUTES.

INHALATION:

MOVE PERSON TO FRESH AIR. IF PERSON IS NOT BREATHING, CALL 911 OR AN AMBULANCE, THEN GIVE ARTIFICIAL RESPIRATION.

INGESTION:

CALL A POISON CONTROL CENTER OR DOCTOR IMMEDIATELY FOR TREATMENT ADVICE. HAVE PERSON SIP A GLASS OF WATER IF ABLE TO SWALLOW. DO NOT INDUCE VOMITING UNLESS TOLD TO DO SO BY A POISON CONTROL CENTER OR DOCTOR. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. HAVE THE PRODUCT CONTAINER OR LABEL WITH YOU WHEN CALLING POISON CENTER OR DOCTOR OR GOING FOR TREATMENT.

ADMINISTER FIRST AID TREATMENT AS STATED ABOVE, THEN CALL 1-800-983-4582

OR CONTACT PHYSICIAN FOR FURTHER MEDICAL INSTRUCTIONS.

NOTE TO PHYSICIAN:

CALL 1-800-983-4582 FOR ASSISTANCE WITH THE MANAGEMENT OF EXPOSURES.

5. FIRE-FIGHTING MEASURES

FLAMMABILITY: NO HAZARD.

FLASH POINT: N.A.P.

PRODUCTS OF COMBUSTION: SEE SECTION 10.

SUITABLE EXTINGUISHING MEDIA: FOR FIRES IN AREA, USE APPROPRIATE MEDIA.

FOR EXAMPLE: WATER SPRAY, DRY CHEMICAL, CARBON DIOXIDE, OR ALCOHOL FOAM.

SPECIFIC HAZARDS: N.A.P.

SPECIFIC METHODS: NORMAL FIRE FIGHTING PROCEDURES MAY BE USED.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: SEE SECTION 8.

SPILL RESPONSE:

EVACUATE UNPROTECTED PERSONNEL FROM AREA. WEAR PROPER PROTECTIVE EQUIPMENT INCLUDING RUBBER BOOTS. VENTILATE AREA IF NEEDED. STOP LEAK IF YOU CAN DO SO WITHOUT RISK. DIKE OR DAM LARGE SPILLS. AVOID DIRECT DISCHARGE TO SEWER AND SURFACE WATERS. PUMP TO CONTAINER OR SOAK UP WITH NON-COMBUSTIBLE INSERT ABSORBENT MATERIALS. AFTER SPILL COLLECTION, FLUSH AREA WITH WATER AND FOLLOW WITH NORMAL CLEAN-UP PROCEDURES. BE CAREFUL AS SPILLS ARE SLIPPERY.

7. HANDLING AND STORAGE

HANDLING:

FOLLOW ALL LABEL DIRECTIONS. INSTRUCT PERSONNEL ABOUT PROPER USE, HAZARDS, PRECAUTIONS, AND FIRST AID MEASURES.

AVOID INGESTION AND CONTACT WITH EYES. DO NOT TASTE OR SWALLOW.

REMOVE AND WASH CONTAMINATED CLOTHING AND FOOTWEAR BEFORE RE-USE.

PRODUCT RESIDUE MAY REMAIN ON OR IN EMPTY CONTAINERS.

HANDLE CAREFULLY TO AVOID DAMAGING CONTAINER.

STORAGE:

ROTATE STOCK REGULARLY. KEEP CONTAINER CLOSED WHEN NOT IN USE. AVOID TEMPERATURES BELOW 35 DEG. F OR ABOVE 120 DEG. F. PROTECT FROM FREEZING. STORAGE AT AMBIENT TEMPERATURES IN A DRY AREA OUT OF DIRECT SUNLIGHT IS RECOMMENDED. KEEP AWAY FROM FOOD AND DRINK. KEEP OUT OF CHILDREN'S REACH.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS: N.A.V.

ENGINEERING CONTROLS: NONE REQUIRED. GENERAL ROOM VENTILATION IS ADEQUATE.

PERSONAL PROTECTION:

EYES: NONE REQUIRED WITH NORMAL USE.

HANDS: NONE REQUIRED WITH NORMAL USE.

RESPIRATORY: N.A.P.

FEET: N.A.P.

BODY: N.A.P.



9. PHYSICAL AND CHEMICAL PROPERTIES

COLOR: TURQUOISE BLUE

ODOR: FLORAL

PH CONCENTRATE: 11.5

PH @ 2500 PPM SOLUTION: N.A.P.

PH @ USE DILUTION: N.A.P.

PHYSICAL STATE: LIQUID

SPECIFIC GRAVITY: 1.005

VISCOSITY: NON-VISCOUS

BOILING POINT: N.A.P.

MELTING POINT: N.A.P.

FLASH POINT: N.A.P.

UEL: N.A.V.

LEL: N.A.V.

EVAPORATION RATE: N.A.P.

ODOR THRESHOLD: N.A.P

VAPOR PRESSURE: N.A.P

VAPOR DENSITY: N. AP.

COEFF. OIL/WATER: N.A.P.

WATER SOLUBILITY: COMPLETE

OTHER: N.A.P.



10. STABILITY AND REACTIVITY

STABLE: YES

CONDITIONS TO AVOID:

AVOID TEMPERATURES BELOW 35 DEG. F OR ABOVE 120 DEG. F.

MATERIALS TO AVOID:

AVOID MIXING DIRECTLY WITH ANY OTHER CLEANING PRODUCT. AVOID OXIDIZING AGENTS INCLUDING BLEACH. MIX ONLY WITH WATER.

DECOMPOSITION PRODUCTS:

FIRE OR MIXING WITH INCOMPATIBLE MATERIALS MAY PRODUCE OXIDES OF CARBON AND OTHER TOXIC OR IRRITATING FUMES.

POSSIBILITY OF HAZARDOUS REACTIONS: N.A.P.



11. TOXICOLOGICAL INFORMATION

ACUTE EFFECTS: SEE SECTION 2.

CHRONIC EFFECTS:

NONE KNOWN. NO REPORTABLE CARCINOGENS, MUTAGENS, SENSITIZERS, SYNERGISTIC MATERIALS, TERATOGENS, OR REPRODUCTIVE TOXINS.

LC50/LD50: N.A.V.

TARGET ORGANS: NONE KNOWN.

OTHER TOXIC EFFECTS: NONE KNOWN.



12. ECOLOGICAL INFORMATION

NOT AVAILABLE.



13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD:

COMPLY WITH ALL FEDERAL, STATE, PROVINCIAL AND LOCAL LAWS AND REGULATIONS. CONSULT STATE AND LOCAL AUTHORITIES FOR RESTRICTIONS ON DISPOSAL OF CHEMICAL WASTE. MANAGE CHEMICAL WASTES THROUGH AN APPROVED WASTE TREATMENT FACILITY. DO NOT REUSE EMPTY CONTAINER. RINSE EMPTY CONTAINER THOROUGHLY WITH WATER BEFORE DISCARDING CONTAINER IN ACCORDANCE WITH CURRENT LOCAL COMMUNITY CODES. PLEASE RECYCLE EMPTY CONTAINER WHENEVER POSSIBLE.



14. TRANSPORT INFORMATION

DOT/TDG: NOT REGULATED

DOT RQ: N.A.P.

DOT ERG #: N.A.P.



15. REGULATORY INFORMATION

EPA CERCLA RQ: N.A.P.

EPA REGISTERED: YES (8155-5-84533)

OSHA HAZARDOUS: YES

PHOSPHORUS CONTENT: 0.00%

PROPOSITION 65: N.A.P.

SARA 311/312 HAZARDS: N.A.P.

SARA 313 CHEMICALS: DIETHYLENE GLYCOL MONOBUTYL ETHER

STATE RIGHT TO KNOW: SEE SECTION 3 FOR STATE RTK CHEMICAL NAMES.

TSCA INVENTORY STATUS: ALL COMPONENTS ARE LISTED ON THE INVENTORY.

VOC: 0.45% CALCULATION METHOD USED IS BASED ON CALIFORNIA ARB STANDARD.



16. OTHER INFORMATION

NFPA RATING:

HEALTH 2

FLAMMABILITY 0

REACTIVITY 0

SPECIAL HAZARD N.A.P.

HMIS RATING:

HEALTH 2

FLAMMABILITY 0

REACTIVITY 0

PERSONAL PROTECTION SEE 8.0

N.AV. = NOT AVAILABLE

N.A.P. = NOT APPLICABLE

PREPARED BY: HEALTH AND SAFETY

NOTICE TO READER:

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