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SDS

Common Name: TOUGH GUY 6.0% BLEACH**Manufacturer:** W.W. GRAINGER**SDS Revision Date:** 12/2/2014**SDS Format:** GHS-US**Grainger Item Number(s):** 33NT68, 3CA44**Manufacturer Model Number(s):**

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SAFETY DATA SHEET

ISSUE DATE: 01-MAY-2007

REVISION DATE: 02-DEC-2014

VERSION: 1

1. IDENTIFICATION



PRODUCT IDENTIFIER:

PRODUCT NAME: TOUGH GUY 6.0% BLEACH

OTHER MEANS OF IDENTIFICATION:

SDS #: TGB-007E

REGISTRATION NUMBER(S):

EPA REGISTRATION: 55852-5-10637

RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE:

RECOMMENDED USE: BLEACH.

DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:

SUPPLIER ADDRESS:

WW GRAINGER
100 GRAINGER PARKWAY
LAKE FOREST, IL. 60045

EMERGENCY TELEPHONE NUMBER:

COMPANY PHONE NUMBER: 847-535-1000

EMERGENCY TELEPHONE (24 HR):

INFOTRAC 1-352-323-3500 (INTERNATIONAL)
1-800-535-5053 (NORTH AMERICA)

2. HAZARDS IDENTIFICATION



APPEARANCE: CLEAR TO YELLOW LIQUID

PHYSICAL STATE: LIQUID

ODOR: PUNGENT, IRRITATING, THAT OF HOUSEHOLD BLEACH

CLASSIFICATION:

SKIN CORROSION/IRRITATION: CATEGORY 1 SUB-CATEGORY C
SERIOUS EYE DAMAGE/EYE IRRITATION: CATEGORY 1

SIGNAL WORD: DANGER

HAZARD STATEMENTS: CAUSES SEVERE SKIN BURNS AND EYE DAMAGE

CORROSION

PRECAUTIONARY STATEMENTS - PREVENTION:

DO NOT BREATHE DUST/FUME/GAS/MIST/VAPORS/SPRAY

WASH FACE, HANDS AND ANY EXPOSED SKIN THOROUGHLY AFTER HANDLING

WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION

PRECAUTIONARY STATEMENTS - RESPONSE:

IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN

IF IN EYES:

RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES,
IF PRESENT AND EASY TO DO. CONTINUE RINSING

IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN

IF ON SKIN (OR HAIR):

REMOVE/TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH
WATER/SHOWER

WASH CONTAMINATED CLOTHING BEFORE REUSE

IF INHALED:

REMOVE VICTIM TO FRESH AIR AND KEEP AT REST IN A POSITION COMFORTABLE FOR
BREATHING

IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN

IF SWALLOWED: RINSE MOUTH. DO NOT INDUCE VOMITING

PRECAUTIONARY STATEMENTS - STORAGE: STORE LOCKED UP

PRECAUTIONARY STATEMENTS - DISPOSAL:
DISPOSE OF CONTENTS/CONTAINER TO AN APPROVED WASTE DISPOSAL PLANT

OTHER HAZARDS:
VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS

3. COMPOSITION/INFORMATION ON INGREDIENTS



CHEMICAL NAME	CAS NO	WEIGHT-%
SODIUM HYPOCHLORITE	7681-52-9	1-10

IF CHEMICAL NAME/CAS NO IS "PROPRIETARY" AND/OR WEIGHT-% IS LISTED AS A RANGE, THE SPECIFIC CHEMICAL IDENTITY AND/OR PERCENTAGE OF COMPOSITION HAS BEEN WITHHELD AS A TRADE SECRET.

4. FIRST-AID MEASURES



FIRST AID MEASURES:

GENERAL ADVICE: IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN.

EYE CONTACT:
HOLD EYE OPEN AND RINSE SLOWLY AND GENTLY WITH WATER FOR 15-20 MINUTES.
REMOVE CONTACT LENSES, IF PRESENT, AFTER THE FIRST FIVE MINUTES, THEN CONTINUE RINSING EYE. IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN.

SKIN CONTACT: IMMEDIATELY FLUSH WITH SOAP AND WATER.

INHALATION:
REMOVE VICTIM TO FRESH AIR AND KEEP AT REST IN A POSITION COMFORTABLE FOR BREATHING. IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN.

INGESTION:
IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN. RINSE MOUTH. 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. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

MOST IMPORTANT SYMPTOMS AND EFFECTS:

SYMPTOMS:
CAUSES SEVERE SKIN BURNS AND EYE DAMAGE. RESPIRATORY TRACT IRRITANT.
INGESTION CAN CAUSE CORROSION OF THE MUCOUS MEMBRANES.

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

NOTES TO PHYSICIAN: TREAT SYMPTOMATICALLY.

5. FIRE-FIGHTING MEASURES



SUITABLE EXTINGUISHING MEDIA:
USE EXTINGUISHING MEASURES THAT ARE APPROPRIATE TO LOCAL CIRCUMSTANCES AND THE SURROUNDING ENVIRONMENT.

UNSUITABLE EXTINGUISHING MEDIA: NOT DETERMINED.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

NOT CONSIDERED TO BE A FIRE HAZARD. NOT CONSIDERED TO BE AN EXPLOSION HAZARD.

PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS:

AS IN ANY FIRE, WEAR SELF-CONTAINED BREATHING APPARATUS PRESSURE-DEMAND, MSHA/NIOSH (APPROVED OR EQUIVALENT) AND FULL PROTECTIVE GEAR.

6. ACCIDENTAL RELEASE MEASURES



PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

PERSONAL PRECAUTIONS: USE PERSONAL PROTECTIVE EQUIPMENT AS REQUIRED.

ENVIRONMENTAL PRECAUTIONS:

SEE SECTION 12 FOR ADDITIONAL ECOLOGICAL INFORMATION.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:

METHODS FOR CONTAINMENT:

PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO DO SO.

METHODS FOR CLEAN-UP:

MOVE UNPROTECTED PERSONNEL UPWIND OUT OF DANGER. DILUTE WITH WATER AND FLUSH TO LOCAL SEWER SYSTEM, IF PERMITTED. SOLID WASTE MUST BE DISPOSED OF IN A PERMITTED WASTE MANAGEMENT FACILITY. ENSURE COMPLIANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

7. HANDLING AND STORAGE



PRECAUTIONS FOR SAFE HANDLING:

ADVICE ON SAFE HANDLING:

HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICE. DO NOT BREATHE DUST/FUME/GAS/MIST/VAPORS/SPRAY. WASH FACE, HANDS, AND ANY EXPOSED SKIN THOROUGHLY AFTER HANDLING. WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING AND EYE/FACE PROTECTION.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

STORAGE CONDITIONS:

STORE LOCKED UP. STORE IN A COOL, DRY, WELL-VENTILATED PLACE. PROTECT CONTAINER FROM PHYSICAL DAMAGE. STORE AWAY FROM INCOMPATIBLE MATERIALS.

INCOMPATIBLE MATERIALS:

REACTS VIGOROUSLY WITH AMINE, AMMONIUM ACETATE, AMMONIUM OXALATE, ACIDS AND MOST ORGANICS.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION



EXPOSURE GUIDELINES:

THIS PRODUCT, AS SUPPLIED, DOES NOT CONTAIN ANY HAZARDOUS MATERIALS WITH OCCUPATIONAL EXPOSURE LIMITS ESTABLISHED BY THE REGION SPECIFIC REGULATORY BODIES

APPROPRIATE ENGINEERING CONTROLS:

ENGINEERING CONTROLS:
LOCAL EXHAUST VENTILATION RECOMMENDED. EYEWASH STATIONS. SHOWERS.

INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT:

EYE/FACE PROTECTION:
USE CHEMICAL SAFETY GOGGLES IMPERVIOUS TO PRODUCT. CONTACT LENSES SHOULD NOT BE WORN WHEN WORKING WITH THIS MATERIAL.

SKIN AND BODY PROTECTION:
WEAR IMPERVIOUS PROTECTIVE CLOTHING INCLUDING BOOTS, GLOVES, LAB COAT, APRON, OR COVERALLS TO PREVENT SKIN CONTACT.

RESPIRATORY PROTECTION:
(NIOSH APPROVED) RECOMMENDED FOR ALL PERSONNEL WORKING IN OR ABOUT AN AREA OF POTENTIAL EXPOSURE.

GENERAL HYGIENE CONSIDERATIONS:
HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICE.

9. PHYSICAL AND CHEMICAL PROPERTIES



INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

PHYSICAL STATE: LIQUID

APPEARANCE: CLEAR TO YELLOW LIQUID

ODOR: PUNGENT, IRRITATING, THAT OF HOUSEHOLD BLEACH

COLOR: CLEAR TO YELLOW

ODOR THRESHOLD: NOT DETERMINED

PROPERTY	VALUES	REMARKS - METHOD
PH	12.75	
MELTING POINT/FREEZING POINT	NOT DETERMINED	
BOILING POINT/BOILING RANGE	DECOMPOSES PRIOR TO BOILING	
FLASH POINT	NOT DETERMINED	
EVAPORATION RATE	NOT APPLICABLE	
FLAMMABILITY (SOLID, GAS)	LIQUID- NOT APPLICABLE	
UPPER FLAMMABILITY LIMITS	NOT DETERMINED	
LOWER FLAMMABILITY LIMIT	NOT DETERMINED	
VAPOR PRESSURE	APPROXIMATELY THAT OF AIR	
VAPOR DENSITY	NOT DETERMINED	
SPECIFIC GRAVITY	1.096	AT 15.6 DEG. C (60 DEG. F)
WATER SOLUBILITY	COMPLETELY SOLUBLE	

SOLUBILITY IN OTHER SOLVENTS	NOT DETERMINED
PARTITION COEFFICIENT	NOT DETERMINED
AUTO-IGNITION TEMPERATURE	NOT DETERMINED
DECOMPOSITION TEMPERATURE	NOT DETERMINED
KINEMATIC VISCOSITY	NOT DETERMINED
DYNAMIC VISCOSITY	NOT DETERMINED
EXPLOSIVE PROPERTIES	NOT DETERMINED
OXIDIZING PROPERTIES	NOT DETERMINED

10. STABILITY AND REACTIVITY



REACTIVITY: NOT REACTIVE UNDER NORMAL CONDITIONS.

CHEMICAL STABILITY:
STABLE UNDER ORDINARY CONDITIONS OF USE AND STORAGE. UNSTABLE AT ELEVATED TEMPERATURES.

POSSIBILITY OF HAZARDOUS REACTIONS: NONE UNDER NORMAL PROCESSING.

HAZARDOUS POLYMERIZATION: THIS SUBSTANCE DOES NOT POLYMERIZE.

CONDITIONS TO AVOID: EXCESSIVE HEAT AND FIRE. INCOMPATIBLE MATERIALS.

INCOMPATIBLE MATERIALS:
REACTS VIGOROUSLY WITH AMINE, AMMONIUM ACETATE, AMMONIUM OXALATE, ACIDS AND MOST ORGANICS.

HAZARDOUS DECOMPOSITION PRODUCTS:
DECOMPOSES UNDER VARIOUS MECHANISMS. MAY GENERATE CHLORINE OR OXYGEN WHICH CAN BE TOXIC AND EXPLOSIVE, RESPECTIVELY.

11. TOXICOLOGICAL INFORMATION



INFORMATION ON LIKELY ROUTES OF EXPOSURE:

PRODUCT INFORMATION:

EYE CONTACT: CAUSES SEVERE EYE DAMAGE.

SKIN CONTACT: CAUSES SEVERE SKIN BURNS.

INHALATION: DO NOT INHALE.

INGESTION: DO NOT INGEST.

COMPONENT INFORMATION:

CHEMICAL NAME	ORAL LD50	DERMAL LD50	INHALATION LC50
SODIUM HYPOCHLORITE 7681-52-9	=8200 MG/KG (RAT)	>10000 MG/KG (RABBIT)	

INFORMATION ON PHYSICAL, CHEMICAL AND TOXICOLOGICAL EFFECTS:

SYMPTOMS:
PLEASE SEE SECTION 4 OF THIS SDS FOR SYMPTOMS.

DELAYED AND IMMEDIATE EFFECTS AS WELL AS CHRONIC EFFECTS FROM SHORT AND LONG-TERM EXPOSURE:

CARCINOGENICITY:

GROUP 3 IARC COMPONENTS ARE "NOT CLASSIFIABLE AS HUMAN CARCINOGENS".

CHEMICAL NAME	ACGIH	IARC	NTP	OSHA
SODIUM HYPOCHLORITE 7681-52-9		GROUP 3		

LEGEND:

IARC (INTERNATIONAL AGENCY FOR RESEARCH ON CANCER)

GROUP 3 IARC COMPONENTS ARE "NOT CLASSIFIABLE AS HUMAN CARCINOGENS"

NUMERICAL MEASURES OF TOXICITY: NOT DETERMINED

12. ECOLOGICAL INFORMATION



ECOTOXICITY: VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.

COMPONENT INFORMATION:

CHEMICAL NAME	ALGAE/AQUATIC PLANTS	FISH
SODIUM HYPOCHLORITE 7681-52-9	0.095: 24 H SKELETONEMA COSTATUM MG/L EC50	0.06 - 0.11: 96 H PIMEPHALES PROMELAS MG/L LC50 FLOW- THROUGH 4.5 - 7.6: 96 H PIMEPHALES PROMELAS MG/L LC50 STATIC 0.4 - 0.8: 96 H LEPOMIS MACROCHIRUS MG/L LC50 STATIC 0.28 - 1: 96 H LEPOMIS MACROCHIRUS MG/L LC50 FLOW-THROUGH 0.05 - 0.771: 96 H ONCORHYNCHUS MYKISS MG/L LC50 FLOW-THROUGH 0.03 - 0.19: 96 H ONCORHYNCHUS MYKISS MG/L LC50 SEMI-STATIC 0.18 - 0.22: 96 H ONCORHYNCHUS MYKISS MG/L LC50 STATIC

CHEMICAL NAME	TOXICITY TO MICROORGANISMS	CRUSTACEA
SODIUM HYPOCHLORITE		2.1: 96 H DAPHNIA MAGNA MG/L EC50 0.033 - 0.044: 48 H DAPHNIA MAGNA MG/L EC50 STATIC

PERSISTENCE/DEGRADABILITY: NOT DETERMINED.

BIOACCUMULATION: NOT DETERMINED.

MOBILITY: NOT DETERMINED

OTHER ADVERSE EFFECTS: NOT DETERMINED

13. DISPOSAL CONSIDERATIONS



WASTE TREATMENT METHODS:

DISPOSAL OF WASTES:

DISPOSAL SHOULD BE IN ACCORDANCE WITH APPLICABLE REGIONAL, NATIONAL AND LOCAL LAWS AND REGULATIONS.

CONTAMINATED PACKAGING:

DISPOSAL SHOULD BE IN ACCORDANCE WITH APPLICABLE REGIONAL, NATIONAL AND LOCAL LAWS AND REGULATIONS.

14. TRANSPORT INFORMATION



NOTE:

PLEASE SEE CURRENT SHIPPING PAPER FOR MOST UP TO DATE SHIPPING INFORMATION, INCLUDING EXEMPTIONS AND SPECIAL CIRCUMSTANCES.

DOT: NOT REGULATED

IATA:

PROPER SHIPPING NAME:

THE PRODUCT AS PACKAGED IS NOT APPROVED FOR AIR TRANSPORTATION.

IMDG:

UN/ID NO: UN3082

PROPER SHIPPING NAME:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SODIUM HYPOCHLORITE)

HAZARD CLASS: 9

PACKING GROUP: III

MARINE POLLUTANT: SODIUM HYPOCHLORITE

DESCRIPTION:

FOR COMBINATION PACKAGINGS (E.G. BOXES) CONTAINING INNER PACKAGINGS (E.G. BOTTLES) OF 5 L (1.33 GAL) OR LESS, THE PRODUCT IS SHIPPED AS A LIMITED QUANTITY PER IMDG CODE CHAPTER 3.4.

15. REGULATORY INFORMATION



INTERNATIONAL INVENTORIES:

CHEMICAL NAME	TSCA	DSL	NDSL	EINECS	ELINCS
SODIUM HYPOCHLORITE	PRESENT	X		PRESENT	

CHEMICAL NAME	ENCS	IECSC	KECL	PICCS	AICS
SODIUM HYPOCHLORITE	PRESENT	X	PRESENT	X	X

LEGEND:

TSCA - UNITED STATES TOXIC SUBSTANCES CONTROL ACT SECTION 8(B) INVENTORY

DSL/NDSL - CANADIAN DOMESTIC SUBSTANCES LIST/NON-DOMESTIC SUBSTANCES LIST

EINECS/ELINCS - EUROPEAN INVENTORY OF EXISTING CHEMICAL SUBSTANCES/EUROPEAN LIST OF NOTIFIED CHEMICAL SUBSTANCES

ENCS - JAPAN EXISTING AND NEW CHEMICAL SUBSTANCES

IECSC - CHINA INVENTORY OF EXISTING CHEMICAL SUBSTANCES

KECL - KOREAN EXISTING AND EVALUATED CHEMICAL SUBSTANCES

PICCS - PHILIPPINES INVENTORY OF CHEMICALS AND CHEMICAL SUBSTANCES

AICS - AUSTRALIAN INVENTORY OF CHEMICAL SUBSTANCES

US FEDERAL REGULATIONS:

CERCLA:

CHEMICAL NAME	HAZARDOUS SUBSTANCES RQS	CERCLA/SARA RQ	REPORTABLE QUANTITY (RQ)
SODIUM HYPOCHLORITE 7681-52-9	100 LB		RQ 100 LB FINAL RQ RQ 45.4 KG FINAL RQ

SARA 313: NOT DETERMINED

CWA (CLEAN WATER ACT):

CHEMICAL NAME	CWA - REPORTABLE QUANTITIES	CWA - TOXIC POLLUTANTS
SODIUM HYPOCHLORITE	100 LB	

CHEMICAL NAME	CWA - PRIORITY POLLUTANTS	CWA - HAZARDOUS SUBSTANCES
SODIUM HYPOCHLORITE		X

US STATE REGULATIONS:

CALIFORNIA PROPOSITION 65:

THIS PRODUCT DOES NOT CONTAIN ANY PROPOSITION 65 CHEMICALS.

U.S. STATE RIGHT-TO-KNOW REGULATIONS:

CHEMICAL NAME	NEW JERSEY	MASSACHUSETTS	PENNSYLVANIA
SODIUM HYPOCHLORITE 7681-52-9	X	X	X

16. OTHER INFORMATION



NFPA:

HEALTH HAZARDS 1
 FLAMMABILITY 0
 INSTABILITY 0
 SPECIAL HAZARDS NOT DETERMINED

HMIS:

HEALTH HAZARDS 1
 FLAMMABILITY 0
 PHYSICAL HAZARDS 0
 PERSONAL PROTECTION B

ISSUE DATE: 01-MAY-2007

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REVISION NOTE: NEW FORMAT

DISCLAIMER:

THE INFORMATION PROVIDED IN THIS SAFETY DATA SHEET IS CORRECT TO THE BEST

OF OUR KNOWLEDGE, INFORMATION AND BELIEF AT THE DATE OF ITS PUBLICATION. THE INFORMATION GIVEN IS DESIGNED ONLY AS A GUIDANCE FOR SAFE HANDLING, USE, PROCESSING, STORAGE, TRANSPORTATION, DISPOSAL AND RELEASE AND IS NOT TO BE CONSIDERED A WARRANTY OR QUALITY SPECIFICATION. THE INFORMATION RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED AND MAY NOT BE VALID FOR SUCH MATERIAL USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS, UNLESS SPECIFIED IN THE TEXT.