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MSDS

Common Name: TOUGH GUY HYDROGEN PEROXIDE GP CLEANER**Manufacturer:** W.W. GRAINGER**MSDS Revision Date:** 7/5/2011**Grainger Item Number(s):** 12M180**Manufacturer Model Number(s):**

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SAFETY DATA SHEET

GRAINGER(R*) FOR THE ONES WHO GET IT DONE

MANUFACTURED FOR:

W.W. GRAINGER, INC.

100 GRAINGER PKWY.

LAKE FOREST, IL 60045-5201

1-847-535-1000

WWW.GRAINGER.COM

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION



PRODUCT NAME: TOUGH GUY HYDROGEN PEROXIDE GP CLEANER

PRODUCT USE: HARD SURFACE CLEANER

PRODUCT CODE: 12M180

DATE OF ISSUE: 07/05/11

SUPERSEDES:

EMERGENCY TELEPHONE NUMBERS:

FOR MSDS INFORMATION:

TECHNICAL SERVICES: 1-847-535-5400

FOR MEDICAL EMERGENCY: (800) 983-4582 TOLL FREE

FOR TRANSPORTATION EMERGENCY:

CHEMTREC: (800) 424-9300 - ALL CALLS RECORDED

IN THE DISTRICT OF COLUMBIA: (202) 483-7616

PREPARED BY:

COMPLIANCE SERVICES

1420 SEABOARD INDUSTRIAL BLVD.

ATLANTA, GA 30318

SECTION 2. HAZARDS IDENTIFICATION



EMERGENCY OVERVIEW:

WARNING!

CAUSES EYE AND SKIN IRRITATION. MAY BE HARMFUL IF SWALLOWED.

NOTE:

MSDS DATA PERTAINS TO THE PRODUCT AS DELIVERED IN THE ORIGINAL SHIPPING CONTAINER(S). RISK OF ADVERSE EFFECTS ARE LESSENERED BY FOLLOWING ALL PRESCRIBED SAFETY PRECAUTIONS, INCLUDING THE USE OF PROPER PERSONAL PROTECTIVE EQUIPMENT.

ACUTE EFFECTS:

ROUTES OF ENTRY: DERMAL CONTACT. EYE CONTACT. INHALATION.

EYES:

CAUSES EYE IRRITATION. INFLAMMATION OF THE EYE IS CHARACTERIZED BY REDNESS, WATERING AND ITCHING.

SKIN:

CAUSES SKIN IRRITATION. SKIN INFLAMMATION IS CHARACTERIZED BY ITCHING, SCALING, OR REDDENING.

INHALATION:

AVOID BREATHING VAPORS, SPRAY OR MISTS. OVER-EXPOSURE BY INHALATION MAY CAUSE RESPIRATORY IRRITATION.

INGESTION:

MAY BE HARMFUL IF SWALLOWED. CAN CAUSE GASTROINTESTINAL DISTURBANCES.

CHRONIC EFFECTS:

PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION. REPEATED OR PROLONGED EXPOSURE TO SPRAY OR MIST MAY PRODUCE RESPIRATORY TRACT IRRITATION LEADING TO FREQUENT ATTACKS OF BRONCHIAL INFECTION.

CARCINOGENICITY: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

PRODUCT/INGREDIENT NAME	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
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HYDROGEN PEROXIDE	A3	3				
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ADDITIONAL INFORMATION: SEE TOXICOLOGICAL INFORMATION (SECTION 11)

*HAZARD DETERMINATION SYSTEM (HDS):

HEALTH 2
FLAMMABILITY 0
REACTIVITY 0

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS



NAME OF HAZARDOUS INGREDIENTS	CAS NUMBER	% BY WEIGHT
HYDROGEN PEROXIDE; PEROXIDE	7722-84-1	1 - 10
DIPROPYLENE GLYCOL N-PROPYL ETHER; 2- PROPANOL, 1-(1-METHYL-2-PROPOXYETHOXY)	29911-27-1	1 - 5

SECTION 4. FIRST AID MEASURES



EYE CONTACT:

CHECK FOR AND REMOVE ANY CONTACT LENSES. IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES, OCCASIONALLY LIFTING THE UPPER AND LOWER EYELIDS. GET MEDICAL ATTENTION IMMEDIATELY.

SKIN CONTACT:

IN CASE OF CONTACT, IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. WASH CLOTHING BEFORE REUSE. GET MEDICAL ATTENTION IF IRRITATION OCCURS.

INHALATION:

MOVE EXPOSED PERSON TO FRESH AIR. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION.

INGESTION:

WASH OUT MOUTH WITH WATER. DO NOT INDUCE VOMITING UNLESS DIRECTED TO DO SO BY MEDICAL PERSONNEL. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. IF AFFECTED PERSON IS CONSCIOUS, GIVE PLENTY OF WATER TO DRINK. GET MEDICAL ATTENTION IMMEDIATELY.

SECTION 5. FIRE FIGHTING MEASURES



FLASH POINT: NONE.

FLAMMABLE LIMITS: NOT DETERMINED.

FLAMMABILITY: NON-COMBUSTIBLE.

FIRE HAZARD:

IN A FIRE OR IF HEATED, A PRESSURE INCREASE WILL OCCUR AND THE CONTAINER MAY BURST. MAY EMIT TOXIC FUMES UNDER FIRE CONDITIONS.

FIRE-FIGHTING PROCEDURES:

USE AN EXTINGUISHING AGENT SUITABLE FOR THE SURROUNDING FIRE.

NATIONAL FIRE PROTECTION ASSOCIATION (U.S.A.):

2
0
0

SECTION 6. ACCIDENTAL RELEASE MEASURES



SPILL CLEAN UP:

PUT ON APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (SEE SECTION 8). STOP LEAK IF WITHOUT RISK. MOVE CONTAINERS FROM SPILL AREA. DILUTE WITH WATER AND MOP UP IF WATER-SOLUBLE. ALTERNATIVELY, OR IF WATER-INSOLUBLE, ABSORB WITH AN INERT DRY MATERIAL AND PLACE IN AN APPROPRIATE WASTE DISPOSAL CONTAINER.

SECTION 7. HANDLING AND STORAGE



HANDLING:

PUT ON APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (SEE SECTION 8). AVOID CONTACT WITH EYES, SKIN AND CLOTHING. DO NOT INGEST. AVOID BREATHING VAPOR OR MIST. WASH THOROUGHLY AFTER HANDLING. DO NOT REUSE CONTAINER.

STORAGE:

STORE IN ORIGINAL CONTAINER PROTECTED FROM DIRECT SUNLIGHT IN A DRY, COOL AND WELL-VENTILATED AREA, AWAY FROM INCOMPATIBLE MATERIALS (SEE SECTION 10) AND FOOD AND DRINK. STORE BELOW 120 DEG. F (49 DEG. C). AVOID CONTACT WITH ORGANIC MATERIALS. EXPOSURE TO SUNLIGHT ACCELERATES DECOMPOSITION. KEEP CONTAINER TIGHTLY CLOSED AND SEALED UNTIL READY FOR USE. CONTAINERS THAT HAVE BEEN OPENED MUST BE CAREFULLY RESEALED AND KEPT UPRIGHT TO PREVENT LEAKAGE. DO NOT STORE IN UNLABELED CONTAINERS. KEEP OUT OF THE REACH OF CHILDREN.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION



PRODUCT NAME

EXPOSURE LIMITS

HYDROGEN PEROXIDE; PEROXIDE

ACGIH TLV (UNITED STATES, 2/2010).

TWA: 1 PPM 8 HOUR(S).

TWA: 1.4 MG/M3 8 HOUR(S).

OSHA PEL 1989 (UNITED STATES, 3/1989).

TWA: 1 PPM 8 HOUR(S).

TWA: 1.4 MG/M3 8 HOUR(S).

NIOSH REL (UNITED STATES, 6/2009).

TWA: 1 PPM 10 HOUR(S).

TWA: 1.4 MG/M3 10 HOUR(S).

OSHA PEL (UNITED STATES, 11/2006).

TWA: 1 PPM 8 HOUR(S).

TWA: 1.4 MG/M3 8 HOUR(S).

PERSONAL PROTECTIVE EQUIPMENT (PPE):

SAFETY GLASSES

GLOVES

EYES: SAFETY GLASSES.

BODY:

FOR PROLONGED OR REPEATED HANDLING, USE THE FOLLOWING TYPE OF GLOVES:
NEOPRENE GLOVES. NITRILE GLOVES. RUBBER GLOVES.

RESPIRATORY:

AVOID BREATHING VAPORS, SPRAY OR MISTS. PROVIDE EXHAUST VENTILATION OR

OTHER ENGINEERING CONTROLS TO KEEP THE AIRBORNE CONCENTRATIONS OF VAPORS BELOW THEIR RESPECTIVE OCCUPATIONAL EXPOSURE LIMITS.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES



PHYSICAL STATE: LIQUID. (THIN LIQUID)

pH: 2.5 TO 3.5

BOILING POINT: NOT AVAILABLE.

SPECIFIC GRAVITY: 1.03

SOLUBILITY:

SOLUBLE IN THE FOLLOWING MATERIALS: COLD WATER AND HOT WATER.

COLOR: CLEAR. GREEN.

ODOR: PLEASANT. (LEMONGRASS)

VAPOR PRESSURE: NOT DETERMINED.

VAPOR DENSITY: NOT DETERMINED.

EVAPORATION RATE: 1 (WATER = 1)

VOC (CONSUMER): 0 G/L

SECTION 10. STABILITY AND REACTIVITY



STABILITY AND REACTIVITY: THE PRODUCT IS STABLE.

INCOMPATIBILITY:

KEEP AWAY FROM HEAT, SPARKS AND FLAME. SLIGHTLY REACTIVE OR INCOMPATIBLE WITH THE FOLLOWING MATERIALS:

OXIDIZING MATERIALS, REDUCING MATERIALS, ORGANIC MATERIALS AND ALKALIS.

HAZARDOUS POLYMERIZATION:

UNDER NORMAL CONDITIONS OF STORAGE AND USE, HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

HAZARDOUS DECOMPOSITION PRODUCTS:

DECOMPOSES ON HEATING. CARBON OXIDES (CO, CO2)

SECTION 11. TOXICOLOGICAL INFORMATION



ACUTE TOXICITY:

PRODUCT/INGREDIENT NAME	RESULT	SPECIES	DOSE	EXPOSURE
HYDROGEN PEROXIDE	LD50 ORAL	RAT	1232 MG/KG	
1-(1-METHYL-2-PROPOXYETHOXY)PROPAN-2-OL	LD50 DERMAL	RABBIT	>2000 MG/KG	
	LD50 DERMAL	RABBIT	5660 (MICRO)L/KG	
	LD50 ORAL	RAT	>2000 MG/KG	
	LD50 ORAL	RAT	>1500 MG/KG	
	LD50 ORAL	RAT	1620 (MICRO)L/KG	

SECTION 12. ECOLOGICAL INFORMATION

ENVIRONMENTAL EFFECTS: NOT AVAILABLE.

AQUATIC ECOTOXICITY:

PRODUCT/INGREDIENT NAME	TEST	RESULT	SPECIES	EXPOSURE
HYDROGEN PEROXIDE		ACUTE EC50 24 PPM FRESH WATER	DAPHNIA - WATER FLEA - DAPHNIA MAGNA - <24 HOURS	48 HOURS
		ACUTE EC50 2320 (MICRO)G/L FRESH WATER	DAPHNIA - WATER FLEA - DAPHNIA MAGNA - NEONATE - <24 HOURS	48 HOURS
		ACUTE LC50 16.4 MG/L	FISH	96 HOURS
		ACUTE LC50 26.7 PPM FRESH WATER	FISH - BLUEGILL - LEPOMIS MACROCHIRUS - JUVENILE (FLEDGLING, HATCHLING, WEANLING)	96 HOURS
		ACUTE LC50 22 PPM FRESH WATER	FISH - RAINBOW TROUT, DONALDSON TROUT - ONCORHYNCHUS MYKISS - JUVENILE (FLEDGLING, HATCHLING, WEANLING)	96 HOURS

SECTION 13. DISPOSAL CONSIDERATIONS

WASTE INFORMATION:

WASTE MUST BE DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL ENVIRONMENTAL CONTROL REGULATIONS. CONSULT YOUR LOCAL OR REGIONAL AUTHORITIES FOR ADDITIONAL INFORMATION.

WASTE STREAM:

CODE: (NONE.)

CLASSIFICATION: (NON-HAZARDOUS WASTE)

SECTION 14. TRANSPORT INFORMATION

REGULATORY INFORMATION	UN NUMBER	PROPER SHIPPING NAME	CLASSES	PG*	LABEL
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DOT CLASSIFICATION NOT REGULATED. NONE.

NOTE:

DOT CLASSIFICATION APPLIES TO MOST PACKAGE SIZES. FOR SPECIFIC CONTAINER SIZE CLASSIFICATIONS OR FOR SIZE EXCEPTIONS, REFER TO THE BILL OF LADING

WITH YOUR SHIPMENT.

PG*: PACKING GROUP

SECTION 15. REGULATORY INFORMATION



U.S. FEDERAL REGULATIONS:

SARA 313 TOXIC CHEMICAL NOTIFICATION AND RELEASE REPORTING:
NO PRODUCTS WERE FOUND.

CLEAN WATER ACT (CWA) 307: NO PRODUCTS WERE FOUND.

CLEAN WATER ACT (CWA) 311: NO PRODUCTS WERE FOUND.

CLEAN AIR ACT (CAA) 112 REGULATED TOXIC SUBSTANCES: NO PRODUCTS WERE FOUND.

ALL COMPONENTS OF THIS PRODUCT ARE LISTED OR EXEMPT FROM LISTING ON TSCA INVENTORY.

UNITED STATES INVENTORY (TSCA 8B): ALL COMPONENTS ARE LISTED OR EXEMPTED.

STATE REGULATIONS:

CALIFORNIA PROP 65: NO PRODUCTS WERE FOUND.

SECTION 16. OTHER INFORMATION



TO THE BEST OF OUR KNOWLEDGE, THE INFORMATION CONTAINED HEREIN IS ACCURATE. HOWEVER, NEITHER THE ABOVE NAMED SUPPLIER NOR ANY OF ITS SUBSIDIARIES ASSUMES ANY LIABILITY WHATSOEVER FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION CONTAINED HEREIN.

FINAL DETERMINATION OF SUITABILITY OF ANY MATERIAL IS THE SOLE RESPONSIBILITY OF THE USER. ALL MATERIALS MAY PRESENT UNKNOWN HAZARDS AND SHOULD BE USED WITH CAUTION. ALTHOUGH CERTAIN HAZARDS ARE DESCRIBED HEREIN, WE CANNOT GUARANTEE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

*NOTE:

HAZARD DETERMINATION SYSTEM (HDS) RATINGS ARE BASED ON A 0-4 RATING SCALE, WITH 0 REPRESENTING MINIMAL HAZARDS OR RISKS, AND 4 REPRESENTING SIGNIFICANT HAZARDS OR RISKS ALTHOUGH THESE RATINGS ARE NOT REQUIRED ON MSDSS UNDER 29 CFR 1910.1200, THE PREPARER MAY CHOOSE TO PROVIDE THEM. HDS RATINGS ARE TO BE USED WITH A FULLY IMPLEMENTED PROGRAM TO RELAY THE MEANINGS OF THIS SCALE.