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Common Name: TOUGH GUY FOAMING CITRUS POWER CLEANER

Manufacturer: W.W. GRAINGER

MSDS Revision Date: 8/30/2007

Grainger Item Number(s): 2DBY4

**Manufacturer Model
Number(s):**

MSDS Table of Contents

Click the desired link below to jump directly to that section in the MSDS.

[SECTION 1: COMPANY IDENTIFICATION](#)
[SECTION 2: INGREDIENTS/IDENTITY INFORMATION](#)
[SECTION 3: HAZARDS IDENTIFICATION](#)
[SECTION 4: EMERGENCY AND FIRST AID PROCEDURES](#)
[SECTION 5: FIRE FIGHTING MEASURES](#)
[SECTION 6: ACCIDENTAL RELEASE MEASURES](#)
[SECTION 7: HANDLING AND STORAGE](#)
[SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION](#)
[SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES](#)
[SECTION 10: STABILITY AND REACTIVITY](#)
[SECTION 11: TOXICOLOGICAL INFORMATION](#)
[SECTION 12: ECOLOGICAL INFORMATION](#)
[SECTION 13: DISPOSAL CONSIDERATION](#)
[SECTION 14: TRANSPORT INFORMATION](#)
[SECTION 15: REGULATORY INFORMATION](#)
[SECTION 16: ADDITIONAL INFORMATION](#)

MATERIAL SAFETY DATA SHEET

HMIS (R*) :

HEALTH	1
FLAMMABILITY	2
REACTIVITY	0
PERSONAL PROTECTION	B

IDENTITY: TOUGH GUY FOAMING CITRUS POWER CLEANER

PART NUMBER: 2DBY4

NOTE:

BLANK SPACES ARE NOT PERMITTED. IF ANY ITEM IS NOT APPLICABLE, OR NO INFORMATION IS AVAILABLE, THE SPACE MUST BE MARKED TO INDICATE THAT.

SECTION 1: COMPANY IDENTIFICATION

MANUFACTURED FOR: W.W. GRAINGER, INC.

ADDRESS (NUMBER, STREET, CITY, STATE, AND ZIP CODE):
100 GRAINGER PARKWAY
LAKE FOREST, IL 60045

EMERGENCY TELEPHONE NUMBER: 1-800-228-5635

TELEPHONE NUMBER FOR INFORMATION: 1-847-535-5400

SIGNATURE OF PREPARER (OPTIONAL):

SECTION 2: INGREDIENTS/IDENTITY INFORMATION

COMPONENTS (CHEMICAL IDENTITY, COMMON NAME(S))	CAS NO.	OSHA PEL	ACGIH- TLV	OTHER LIMITS RECOMMENDED	% (OPT.)
WATER	7732-18-5	NONE	NONE		60 - 100%
D-LIMONENE (R-P-MENTHA-1,8-DIENE)	5989-27-5	NONE	NONE	30 PPM (MANU.)	10 - 30%
ISOBUTANE	75-28-5	800 PPM	800 PPM		5 - 10%
PROPANE	74-98-6	1000 PPM	ASPHYXIANT		1 - 5%
SODIUM LAURYL SULFATE	151-21-3	NONE.	NONE		1 - 5%

ANY SUBSTANCE LISTED AS HAZARDOUS BY THE STATES OF CALIFORNIA, FLORIDA, ILLINOIS, MICHIGAN, NEW JERSEY, OHIO, PENNSYLVANIA OR TEXAS IS DESCRIBED ABOVE IF KNOWN PRESENT IN REGULATED CONCENTRATIONS.

SECTION 3: HAZARDS IDENTIFICATION

ROUTE(S) OF ENTRY:

EYES?: YES

INHALATION?: YES

SKIN?: YES

INGESTION?: YES

ACUTE HEALTH HAZARDS:

CAUTION. CONTENTS UNDER PRESSURE. MAY CAUSE SKIN AND EYE IRRITATION. MAY CAUSE RESPIRATORY TRACT IRRITATION. OCCUPATIONAL OVEREXPOSURE MAY LEAD TO DERMATITIS.

CHRONIC HEALTH HAZARDS: NONE KNOWN

CARCINOGENICITY:

CHEMICAL: NONE

OSHA: NO

NTP: NO

IARC: NO

SIGNS AND SYMPTOMS OF EXPOSURE:

DRYNESS, REDNESS, AND CRACKING OF SKIN. REDNESS, TEARING, BURNING IN EYES. IRRITATION OF NOSE AND THROAT.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

PRE-EXISTING SKIN DISORDERS MAY BE AFFECTED BY PROLONGED OR REPEATED OCCUPATIONAL OVEREXPOSURE. FOLLOW GOOD CHEMICAL HYGIENE PRACTICES.

SECTION 4: EMERGENCY AND FIRST AID PROCEDURES

EYES:

FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES LIFTING EYELIDS TO INSURE COMPLETE REMOVAL. SEE A PHYSICIAN IMMEDIATELY.

INGESTION:

DO NOT INDUCE VOMITING. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY.

INHALATION:

GET TO FRESH AIR. IF BREATHING HAS STOPPED, QUALIFIED PERSONNEL SHOULD ADMINISTER ARTIFICIAL RESPIRATION.

SKIN:

FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. IF IRRITATION ARISES AND PERSISTS, CALL A PHYSICIAN.

SECTION 5: FIRE FIGHTING MEASURES

USA FLAME PROJECTION TEST (ASTM D-3065): 0" (NON-FLAMMABLE)

FLAMMABLE LIMITS: NO DATA

LEL: NO DATA

UEL: NO DATA

EXTINGUISHING MEDIA:

USE CARBON DIOXIDE, DRY CHEMICAL, FOAM OR FOG AS NEEDED.

SPECIAL FIRE FIGHTING PROCEDURES:

USE WATER SPRAY TO KEEP CONTAINERS COOL AND VAPORS DOWN. DO NOT ALLOW RUNOFF TO ENTER SEWERS OR PUBLIC WATERCOURSES. WEAR SELF-CONTAINED BREATHING APPARATUS IN CHEMICAL FIRES.

HAZARDOUS PRODUCTS OF COMBUSTION:

OXIDES OF CARBON, SULFUR DIOXIDE AND HYDROGEN SULFIDE.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

AEROSOL CONTAINER (PRESSURIZED) MAY BURST IF HEATED OVER 120 DEG. F.

SECTION 6: ACCIDENTAL RELEASE MEASURES

SMALL SPILL:

WIPE UP SMALL RELEASES WITH A DRY ABSORBENT CLOTH OR OTHER ABSORBENT MATERIAL.

LARGE SPILL:

ABSORB LIQUID WITH VERMICULITE, ABSORBENT CLOTH, OR OTHER ABSORBENT MATERIAL. PREVENT MATERIAL FROM ENTERING SEWERS OR DRAINS. VENTILATE AREA AND BLOCK TRAFFIC. TRANSFER CONTAMINATED MATERIAL INTO SUITABLE CONTAINER FOR PROPER DISPOSAL.

SECTION 7: HANDLING AND STORAGE

HANDLING:

CONTENTS UNDER PRESSURE. DO NOT PUNCTURE OR INCINERATE CONTAINER. DO NOT USE AROUND IGNITION SOURCES SUCH AS HEAT, SPARKS, OPEN FLAME, ETC. AVOID CONTACT WITH EYES, SKIN, AND CLOTHING. AVOID BREATHING MIST AND VAPORS. DIRECT SPRAY AWAY FROM FACE. DO NOT DELIBERATELY CONCENTRATE AND INHALE VAPORS. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING.

STORAGE:

DO NOT STORE AT TEMPERATURES EXCEEDING 120 DEG. F. STORE IN A COOL, DRY, WELL VENTILATED LOCATION. KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAMES. FOLLOW LABEL DIRECTIONS CAREFULLY. KEEP OUT OF REACH OF CHILDREN. DO NOT STORE IN DIRECT SUNLIGHT. REPLACE CAP WHEN NOT IN USE. AVOID CONTAMINATION OF FOOD.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

EYE PROTECTION:

YES, IF DIRECT CONTACT IS POSSIBLE. USE GOGGLES OR APPROVED SAFETY GLASSES (ANSI Z87)

SKIN PROTECTION: YES, IMPERVIOUS.

RESPIRATORY PROTECTIONS:

NOT USUALLY NECESSARY. USE WITH ADEQUATE VENTILATION. USE NIOSH/MSHA APPROVED RESPIRATOR IF PELS OR TLVS ARE EXCEEDED.

ENGINEERING CONTROLS:

VENTILATION NOT USUALLY NECESSARY BUT SHOULD BE PROVIDED IN THE EVENT OF OVEREXPOSURE.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR:

MILKY WHITE LIQUID WITH A CITRUS SCENT IN AN AEROSOL CAN.

pH: 11.1 +/- 0.5

SPECIFIC GRAVITY (70 DEG. F): 0.975

BOILING POINT: 212 DEG. F

MELTING POINT: NO DATA

EVAPORATION RATE (BUTYL ACETATE = 1): NO DATA

PRESSURE (PSIG @ 70 DEG. F): 55 +/- 10

VAPOR DENSITY (AIR = 1): >1

SOLUBILITY IN WATER: COMPLETE

VOLATILE ORGANIC COMPOUNDS (VOCS):

263 GRAMS PER LITER OR 29.1 % BY WEIGHT VOCS

SECTION 10: STABILITY AND REACTIVITY

HAZARDOUS POLYMERIZATION:

THIS PRODUCT WILL NOT UNDERGO HAZARDOUS POLYMERIZATION.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:

OXIDES OF CARBON, SULFUR DIOXIDE AND HYDROGEN SULFIDE.

CHEMICAL STABILITY: STABLE

INCOMPATIBILITY (MATERIALS TO AVOID):

STRONG OXIDIZING AGENTS, ACIDS, AND BASES.

SECTION 11: TOXICOLOGICAL INFORMATION

D'LIMONENE:

ACUTE DERMAL:

LD50: >5G/KG, RABBIT

ACUTE ORAL:

LD50: >5G/KG, RAT

SECTION 12: ECOLOGICAL INFORMATION

NO DATA

SECTION 13: DISPOSAL CONSIDERATION

DISPOSAL METHOD:

DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.

RCRA WASTE INFORMATION:

IF THIS PRODUCT BECOMES A WASTE, IT WOULD BE A HAZARDOUS WASTE (D001) AS DEFINED BY RCRA (40 CFR 261). HOWEVER THE WASTE SHOULD BE PROPERLY CHARACTERIZED TO EVALUATE WHETHER ITS COMPOSITION HAS BEEN MODIFIED PRIOR TO DISPOSAL.

SECTION 14: TRANSPORT INFORMATION

DOT INFORMATION - 49 CFR 172.101:

PROPER SHIPPING DESCRIPTION: CONSUMER COMMODITY

HAZARD CLASS: ORM-D

IDENTIFICATION NUMBER: NONE

PACKING GROUP: NONE

WATER TRANSPORTATION:

PROPER SHIPPING DESCRIPTION: AEROSOLS

HAZARD CLASS: 2

IDENTIFICATION NUMBER: UN 1950

PACKING GROUP: NONE

AIR TRANSPORTATION:

PROPER SHIPPING DESCRIPTION: AEROSOLS, NON-FLAMMABLE

HAZARD CLASS: 2.2

IDENTIFICATION NUMBER: UN 1950

PACKING GROUP: NONE

MARINE POLLUTANTS: NONE

SECTION 15: REGULATORY INFORMATION

US FEDERAL REGULATIONS:

TSCA (TOXIC SUBSTANCES CONTROL ACT) STATUS:

ALL INGREDIENTS ARE ON THE TSCA INVENTORY OR ARE NOT REQUIRED TO BE LISTED ON THE TSCA INVENTORY.

CERCLA RQ - 40 CFR 302.4 (A): NONE

SARA 313 COMPONENTS - 40 CFR 372.65: NONE

STATE AND LOCAL REGULATIONS:

CALIFORNIA PROPOSITION 65:

WARNING:

THIS PRODUCT CONTAINS A TRACE CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, AND/OR BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

SECTION 16: ADDITIONAL INFORMATION

DATE PREPARED: 08/30/07

WARNING!

THE USE OF THIS PRODUCT IS BEYOND THE CONTROL OF THE MANUFACTURER; THEREFORE, NO GUARANTEE, EXPRESSED OR IMPLIED, IS MADE AS TO THE EFFECTS OF SUCH OR THE RESULTS TO BE OBTAINED IF NOT USED IN ACCORDANCE WITH DIRECTIONS OR ESTABLISHED SAFE PRACTICE. THE USER MUST ASSUME ALL RESPONSIBILITY, INCLUDING INJURY OR DAMAGE, RESULTING FROM ITS MISUSE AS SUCH, OR IN COMBINATION WITH OTHER MATERIALS. THE MANUFACTURER WARRANTS ONLY THAT THIS PRODUCT MEETS THE MANUFACTURER'S SPECIFICATIONS FOR SUCH PRODUCT. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AS TO DESCRIPTION, QUALITY, MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, PRODUCTIVENESS, OR ANY OTHER MATTER, OF THIS PRODUCT. THE MANUFACTURER SHALL BE IN NO WAY RESPONSIBLE FOR THE IMPROPER USE OF THIS PRODUCT. THE SOLE AND EXCLUSIVE REMEDY AGAINST THE MANUFACTURER FOR BREACH OF WARRANTY SHALL BE REIMBURSEMENT OF THE PURCHASE PRICE OF THE PRODUCT IN THE EVENT THAT A DEFECTIVE CONDITION OF THE PRODUCT SHALL BE FOUND TO EXIST. NO OTHER REMEDY (INCLUDING BUT NOT LIMITED TO INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR INJURY TO PERSON OR PROPERTY OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE.