



Common Name: TOUGH GUY FOAMING CITRUS POWER CLEAN

Manufacturer: W.W. GRAINGER

MSDS Revision Date: 1/1/2011

Grainger Item Number(s): 6PEC6

Manufacturer Model Number(s):

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MATERIAL SAFETY DATA SHEET

PREPARED: 01 JANUARY 2011

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION



PRODUCT(S) : TOUGH GUY(TM) FOAMING CITRUS POWER CLEAN

FORMULA: A361

PART NUMBER(S) : 6PEC6

COMPANY NAME & ADDRESS:
W.W. GRAINGER, INC.
100 GRAINGER PARKWAY
LAKE FOREST, IL 60045

1.847.565.5400

EMERGENCY NUMBERS:
IN CASE OF EMERGENCY, CALL INFOTRAC @: 1-800-228-5635
POISON CONTROL CENTER: 1-800-222-1222

MATERIAL SAFETY DATA SHEETS: WWW.GRAINGER.COM

SECTION 2 - HAZARDS IDENTIFICATION



WARNING. FLAMMABLE LIQUID AND VAPOR. CAUSES EYE IRRITATION. MAY CAUSE SKIN AND RESPIRATORY TRACT IRRITATION. PROLONGED OR REPEATED EXPOSURE MAY CAUSE SEVERE EYE IRRITATION AND DRYING OF THE SKIN. INGESTING LARGE AMOUNTS MAY CAUSE GASTROINTESTINAL IRRITATION. CONTENTS UNDER PRESSURE.

POTENTIAL HEALTH EFFECTS:

EYES: CAUSES EYE IRRITATION.

SKIN: MAY CAUSE SKIN IRRITATION.

INHALATION: MAY CAUSE RESPIRATORY TRACT IRRITATION.

INGESTION:
SWALLOWING LARGE AMOUNTS MAY CAUSE IRRITATION OF THE GASTROINTESTINAL TRACT.

SIGNS/SYMPTOMS OF EXPOSURE:
REDNESS, TEARING OR BURNING IN EYES. DRYING OR REDNESS OF SKIN. NOSE, THROAT, AND AIRWAY IRRITATION. STOMACH OR INTESTINAL UPSET.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:
PRE-EXISTING SKIN CONDITIONS AND EYE DISORDERS MAY BE ADVERSELY AFFECTED. FOLLOW GOOD CHEMICAL HYGIENE PRACTICES TO AVOID THESE HAZARDS.

HMIS RATING:
HEALTH 1
FLAMMABILITY 2
REACTIVITY 0
PERSONAL PROTECTION B

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS



| INGREDIENT | CAS NUMBER | PERCENT RANGE |
|-------------------------------|-------------|---------------|
| WATER | 7732-18-5 | 60 - 100 |
| METHYL SOYATE | 67784-80-9 | 7 - 13 |
| D-LIMONENE | 5989-27-5 | 3 - 7 |
| ISOBUTANE | 75-28-5 | 1 - 5 |
| SODIUM LAURYL SULFATE | 151-21-3 | 1 - 5 |
| FRAGRANCE GRADE TERPENES | 8028-48-6 | 1 - 5 |
| PARAFFINS, NAPHTHENIC SOLVENT | 64742-47-8 | 1 - 5 |
| ALCOHOL ETHOXYLATE | PROPRIETARY | 1 - 5 |
| SODIUM CARBONATE | 497-19-8 | 1 - 5 |
| PROPANE | 74-98-6 | 0.5 - 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 4 - FIRST AID MEASURES



EYES:
FLUSH EYES WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. SEEK MEDICAL ATTENTION IMMEDIATELY.

SKIN:
WASH WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND SHOES. IF IRRITATION ARISES AND PERSISTS SEEK MEDICAL ATTENTION.

INHALATION:

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

INGESTION:
IF A LARGE QUANTITY OF LIQUID IS SWALLOWED, DO NOT INDUCE VOMITING, CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

SECTION 5 - FIRE FIGHTING MEASURES



FLASHPOINT (PMCC): 135 DEG. F

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

SPECIAL FIRE FIGHTING PROCEDURES:
KEEP CONTAINERS COOL AND VAPORS DOWN WITH WATER SPRAY. PREVENT RUNOFF FROM ENTERING SEWERS AND PUBLIC WATERWAYS. WEAR SELF-CONTAINED BREATHING APPARATUS (SCBA) IN CHEMICAL FIRES.

HAZARDOUS PRODUCTS OF COMBUSTION:
OXIDES OF CARBON, SULFUR DIOXIDE, HYDROGEN SULFIDE AND OXIDES OF NITROGEN.

SECTION 6 - ACCIDENTAL RELEASE MEASURES



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

LARGE SPILL:
VENTILATE AREA AND BLOCK TRAFFIC. ELIMINATE ALL IGNITION SOURCES. ABSORB LIQUID WITH VERMICULITE, ABSORBENT CLOTH, OR OTHER ABSORBENT MATERIAL. PREVENT MATERIAL FROM ENTERING SEWERS AND DRAINS. TRANSFER CONTAMINATED MATERIAL INTO SUITABLE CONTAINER FOR PROPER DISPOSAL. CLEAN ANY SLIPPERY RESIDUES WITH SUITABLE SOAP OR DETERGENT.

SECTION 7 - HANDLING AND STORAGE



HANDLING:
DO NOT GET INTO EYES. WASH THOROUGHLY AFTER HANDLING. AVOID SWALLOWING. AVOID CONTACT WITH SKIN AND CLOTHING. AVOID INHALING MISTS OR VAPORS. DO NOT SMOKE WHILE USING. USE ONLY WITH ADEQUATE VENTILATION. DO NOT DELIBERATELY CONCENTRATE AND INHALE VAPORS. DIRECT SPRAY AWAY FROM FACE. SPRAY CAN IN UPRIGHT POSITION ONLY. FOLLOW GOOD CHEMICAL HYGIENE PRACTICES WHEN HANDLING THIS MATERIAL. USE FROM ORIGINAL CONTAINER ONLY AND FOLLOW LABEL DIRECTIONS CAREFULLY.

STORAGE:
KEEP AWAY FROM HEAT, SPARKS, OPEN FLAME AND DIRECT SUNLIGHT. STORE IN A COOL (LESS THAN 120 DEG. F) WELL-VENTILATED AREA. KEEP OUT OF REACH OF CHILDREN. DO NOT CONTAMINATE WATER, FOOD OR FEED BY USE OR STORAGE. DO NOT PUNCTURE OR INCINERATE CONTAINER. REPLACE CAP WHEN NOT IN USE. DO NOT FREEZE.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION



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

EXPOSURE LIMITS:

D-LIMONENE (CAS # 5989-27-5): 30 PPM MANUFACTURER'S RECOMMENDATION

ISOBUTANE (CAS# 75-28-5): 800 PPM OSHA; 800 PPM ACGIH

FRAGRANCE GRADE TERPENES (CAS# 8028-48-6): 30 PPM 8 HR TWA (AIHA STANDARD)

PARAFFINS, NAPHTHENIC SOLVENT (CAS #64742-47-8):
152 PPM TWA MANUFACTURER'S RECOMMENDATION

PROPANE (CAS# 74-98-6): 1000 PPM OSHA; ASPHYXIAN

EYE PROTECTION:
YES, WEAR APPROVED SAFETY GLASSES OR GOGGLES IF DIRECT CONTACT IS POSSIBLE.

SKIN PROTECTION: YES, WEAR IMPERVIOUS GLOVES IF DIRECT CONTACT IS POSSIBLE.

RESPIRATORY PROTECTION:
NOT USUALLY NECESSARY. IF VAPORS ARE PRESENT OR IRRITATION IS EXPERIENCED,
USE NIOSH/MSHA APPROVED RESPIRATOR.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES



APPEARANCE AND ODOR: WHITE LIQUID WITH CITRUS ODOR.

pH: 10.7

BOILING POINT: 212 DEG. F

SPECIFIC GRAVITY: 0.986

VAPOR DENSITY: >1

FLAME PROJECTION: NONE

SOLUBILITY IN WATER: COMPLETE

PRESSURE: 110 PSIG

VOLATILE ORGANIC COMPOUNDS (VOCS): 10.00% BY WEIGHT

SECTION 10 - STABILITY AND REACTIVITY



HAZARDOUS POLYMERIZATION:
THIS PRODUCT WILL NOT UNDERGO HAZARDOUS POLYMERIZATION.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:
CARBON MONOXIDE, CARBON DIOXIDE, OXIDES OF SULFUR, OXIDES OF NITROGEN,
VARIOUS HYDROCARBONS AND VARIOUS ORGANIC OXIDATION BY-PRODUCTS.

CHEMICAL STABILITY: STABLE

INCOMPATIBLE MATERIALS:
STRONG OXIDIZERS AND REDUCERS, MINERAL ACIDS AND ALKALIS.

SECTION 11 - TOXICOLOGICAL INFORMATION



D-LIMONENE, CAS #5989-27-5:
DERMAL LD50: >5 G/KG RABBIT
ORAL LD50: >5 G/KG RAT

FRAGRANCE GRADE TERPENES, CAS#8028-48-6:
DERMAL LD50: >5 G/KG RABBIT
ORAL LD50: >5 G/KG RABBIT
INHALATION RD50: >1 G/KG MICE

SECTION 12 - ECOLOGICAL INFORMATION



NO DATA.

SECTION 13 - DISPOSAL CONSIDERATIONS



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

WASTE INFORMATION:
IF THIS PRODUCT BECOMES A WASTE, IT WOULD BE A HAZARDOUS WASTE (D001) AS DEFINED BY RCRA (40CFR261). HOWEVER THE WASTE SHOULD BE PROPERLY EVALUATED IN CASE OF MODIFICATION PRIOR TO DISPOSAL.

SECTION 14 - TRANSPORT INFORMATION



THE FOLLOWING TRANSPORTATION INFORMATION IS BASED ON DEPARTMENT OF TRANSPORTATION REGULATIONS FOUND IN 49 CFR. IF SHIPPING THIS PRODUCT BY AIR PLEASE REFER TO INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA) DANGEROUS GOODS REGULATIONS. IF SHIPPING THIS PRODUCT BY OCEAN PLEASE REFER TO INTERNATIONAL MARITIME DANGEROUS GOODS REGULATIONS (IMDG). TO FIND HOW TO SHIP THIS PRODUCT PLEASE REFER TO THE UN# LISTED BELOW.

| | UN # | PROPER SHIPPING DESCRIPTION | HAZARD CLASS | PACKING GROUP |
|-----------------|------|-----------------------------|--------------|---------------|
| DOT INFORMATION | NONE | CONSUMER COMMODITY | ORM-D | NONE |

MARINE POLLUTANTS: NONE

SECTION 15 - REGULATORY INFORMATION



US FEDERAL REGULATIONS:

TOXIC SUBSTANCES CONTROL ACT (TSCA):
ALL INGREDIENTS ARE ON THE TSCA INVENTORY OR EXEMPT FROM LISTING.

CERCLA RQ: NONE

SARA 313 COMPONENTS: NONE

STATE AND LOCAL REGULATIONS:

CALIFORNIA PROPOSITION 65: NONE

SECTION 16 - OTHER INFORMATION



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.