

MATERIAL SAFETY DATA SHEET

HMIS (R*) :

HEALTH 1
FLAMMABILITY 4
REACTIVITY 0
PERSONAL PROTECTION A

IDENTITY: TOUGH GUY CHEWING GUM & CANDLE WAX REMOVER

PART NUMBER: 2DCB9

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.
ISOBUTANE 100%	75-28-5	800	800		60 -
		PPM	PPM		
PROPANE 40%	74-98-6	1000	ASPHYXIAN		15 -
		PPM			

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?: NO

ACUTE HEALTH HAZARDS:

DANGER. EXTREMELY FLAMMABLE LIQUID AND VAPOR. CAUSES EYE AND SKIN BURNS (FROSTBITE OR THERMAL TYPE). MAY BE HARMFUL IF INHALED. ASPHYXIATION HAZARD

DUE TO POTENTIAL FOR DISPLACING OXYGEN. FOLLOW GOOD CHEMICAL HYGIENE PRACTICES TO AVOID THESE HAZARDS. CONTENTS UNDER PRESSURE.

CHRONIC HEALTH HAZARDS: NONE KNOWN

CARCINOGENICITY:

CHEMICAL: NONE

OSHA: NO

NTP: NO

IARC: NO

SIGNS AND SYMPTOMS OF EXPOSURE:

COLD OR FREEZING SENSATION ON SKIN OR IN EYES. DISORIENTATION, LACK OF COORDINATION, EXCITATION, HEADACHE, NAUSEA IF INHALED.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

PERSONS WITH PRE-EXISTING SKIN DISORDERS MAY BE AFFECTED. FOLLOW GOOD CHEMICAL HYGIENE PRACTICES TO AVOID THIS HAZARD.

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:

UNLIKELY AS THIS PRODUCT IS A GAS AT ROOM TEMPERATURE AND PRESSURE.

INHALATION:

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

SKIN:

FLUSH OR IMMERSE AREA(S) IN LUKEWARM WATER. IF SKIN IS NOT BURNED OR FROZEN, KEEP WARM AND STIMULATE CIRCULATION WITH MASSAGE. GET MEDICAL ATTENTION.

SECTION 5: FIRE FIGHTING MEASURES



USA FLAME PROJECTION TEST (ASTM D-3065):
GREATER THAN 24", FLASHBACK: EXTREMELY FLAMMABLE

FLAMMABLE LIMITS: NO DATA
LEL: NO DATA
UEL: NO DATA

EXTINGUISHING MEDIA:
USE CARBON DIOXIDE, DRY CHEMICAL, FOAM, FOG OR WATER SPRAY. USE WATER SPRAY
TO KEEP CONTAINERS COOL. CONTAINS AN EXTREMELY FLAMMABLE GAS.

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

UNUSUAL FIRE AND EXPLOSION HAZARDS:
AEROSOL CONTAINER (PRESSURIZED) MAY BURST IF HEATED OVER 120 DEG. F.
EXTREMELY FLAMMABLE CONTENTS. VAPORS ARE HEAVIER THAN AIR AND MAY
ACCUMULATE IN LOW LYING AREAS. VAPORS ARE EASILY IGNITED BY PILOT LIGHT
S,
FLAME, SPARKS, STATIC ELECTRICITY, ELECTRICAL MOTORS, SWITCHES, ETC.

SECTION 6: ACCIDENTAL RELEASE MEASURES



SMALL SPILL:
NOT LIKELY AS MATERIAL IS A GAS AT ATMOSPHERIC PRESSURE AND ROOM
TEMPERATURE.

LARGE SPILL:
DANGER, EXTREMELY FLAMMABLE GAS. ISOLATE TRAFFIC AND VENTILATE AREA.
ELIMINATE ALL IGNITION SOURCES. WEAR PROTECTIVE GEAR AS NECESSARY.

SECTION 7: HANDLING AND STORAGE



HANDLING:
DO NOT USE NEAR IGNITION SOURCES SUCH AS HEAT, SPARKS, OPEN FLAME, ETC.
DIRECT SPRAY AWAY FROM FACE. DO NOT GET IN EYES, ON SKIN OR CLOTHING. DO
NOT SMOKE WHILE USING. USE WITH ADEQUATE VENTILATION. DO NOT DELIBERATE
LY
CONCENTRATE AND INHALE VAPORS.

STORAGE:
FOLLOW LABEL DIRECTIONS CAREFULLY. KEEP OUT OF REACH OF CHILDREN. STORE

IN
A COOL (UNDER 120 DEG. F) DRY LOCATION AWAY FROM HEAT, SPARKS, OPEN FLAME
AND DIRECT SUNLIGHT. REPLACE CAP WHEN NOT IN USE.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION



EYE PROTECTION:

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

SKIN PROTECTION:

NOT USUALLY NECESSARY. ONLY IF DIRECT CONTACT IS POSSIBLE.

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: CLEAR COLORLESS ODORLESS GAS IN AN AEROSOL CAN.

pH: NOT APPLICABLE

SPECIFIC GRAVITY (70 DEG. F): 0.570

BOILING POINT: -44 DEG. F

MELTING POINT: NO DATA

EVAPORATION RATE (BUTYL ACETATE = 1): >1

PRESSURE (PSIG. @ 70 DEG. F): 60 +/- 10

VAPOR DENSITY (AIR = 1): >1

SOLUBILITY IN WATER: SLIGHT

VOLATILE ORGANIC COMPOUNDS (VOCS):

543 GRAMS PER LITER OR 100% BY WEIGHT VOC'S.

SECTION 10: STABILITY AND REACTIVITY



HAZARDOUS POLYMERIZATION:
THIS PRODUCT WILL NOT UNDERGO HAZARDOUS POLYMERIZATION.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: OXIDES OF CARBON.

CHEMICAL STABILITY: STABLE

INCOMPATIBILITY (MATERIALS TO AVOID): STRONG OXIDIZERS

SECTION 11: TOXICOLOGICAL INFORMATION



NO DATA

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 (D001) WASTE 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:
COMPRESSED GAS, FLAMMABLE, N.O.S. (ISOBUTANE, PROPANE)

HAZARD CLASS: 2.1

IDENTIFICATION NUMBER: UN 1954

PACKING GROUP: NONE

WATER TRANSPORTATION:

PROPER SHIPPING DESCRIPTION:

COMPRESSED GAS, FLAMMABLE, N.O.S. (ISOBUTANE, PROPANE)

HAZARD CLASS: 2

IDENTIFICATION NUMBER: UN 1954

PACKING GROUP: NONE

AIR TRANSPORTATION (CARGO AIR CRAFT ONLY):

PROPER SHIPPING DESCRIPTION:

COMPRESSED GAS, FLAMMABLE, N.O.S. (ISOBUTANE, PROPANE)

HAZARD CLASS: 2.1

IDENTIFICATION NUMBER: UN 1954

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 LISTED

SARA 313 COMPONENTS - 40 CFR 372.65: NONE

STATE AND LOCAL REGULATIONS:

CALIFORNIA PROPOSITION 65: NONE

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.