

Common Name: BZ7638 TGUY BUTYL DEGREASER R31824 4/1G

Manufacturer: W.W. GRAINGER

SDS Revision Date: 7/30/2015

SDS Format: GHS-US

Grainger Item Number(s): 12M194

Manufacturer Model Number(s):

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SAFETY DATA SHEET

BZ7638 TGUY BUTYL DEGREASER R31824 4/1G

VERSION: 1.1

REVISION DATE: 07/30/2015

PRINT DATE: 07/31/2015

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION



MATERIAL NAME: BZ7638 TGUY BUTYL DEGREASER R31824 4/1G

MATERIAL NUMBER: 00000000001044971

MANUFACTURER OR SUPPLIER'S DETAILS:

COMPANY: W.W. GRAINGER, INC.

ADDRESS:
100 GRAINGER PARKWAY

LAKE FOREST, IL
USA

TELEPHONE: 800-472-4643

EMERGENCY TELEPHONE NUMBERS:
FOR SDS INFORMATION: 800-255-3320
FOR A MEDICAL EMERGENCY: 800-255-3320
FOR A TRANSPORTATION EMERGENCY: 800-255-3320

SECTION 2. HAZARDS IDENTIFICATION



EMERGENCY OVERVIEW:

APPEARANCE: LIQUID

COLOUR: BLUE

ODOUR: SOLVENT-LIKE

GHS CLASSIFICATION:
SKIN CORROSION: CATEGORY 1A
SERIOUS EYE DAMAGE: CATEGORY 1

GHS LABEL ELEMENT:

HAZARD PICTOGRAMS: CORROSION

SIGNAL WORD: DANGER

HAZARD STATEMENTS:
H314: CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.

PRECAUTIONARY STATEMENTS:

PREVENTION:
P264: WASH SKIN THOROUGHLY AFTER HANDLING.

P280:
WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION.

RESPONSE:
P301 + P330 + P331:
IF SWALLOWED: RINSE MOUTH. DO NOT INDUCE VOMITING.

P303 + P361 + P353:
IF ON SKIN (OR HAIR):
REMOVE/TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH
WATER/SHOWER.

P304 + P340 + P310:
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.

P305 + P351 + P338 + P310:
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.

P363: WASH CONTAMINATED CLOTHING BEFORE REUSE.

STORAGE:

P405: STORE LOCKED UP.

DISPOSAL:

DISPOSE OF CONTENTS/CONTAINER IN ACCORDANCE WITH LOCAL REGULATION.

POTENTIAL HEALTH EFFECTS:

CARCINOGENICITY:

IARC:

NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS PROBABLE, POSSIBLE OR CONFIRMED HUMAN CARCINOGEN BY IARC.

ACGIH:

CONFIRMED ANIMAL CARCINOGEN WITH UNKNOWN RELEVANCE TO HUMANS

2-BUTOXYETHANOL

111-76-2

OSHA:

NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS A CARCINOGEN OR POTENTIAL CARCINOGEN BY OSHA.

NTP:

NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS A KNOWN OR ANTICIPATED CARCINOGEN BY NTP.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS



SUBSTANCE / MIXTURE: MIXTURE

HAZARDOUS COMPONENTS:

CHEMICAL NAME	CAS-NO.	CONCENTRATION [%]
2-(2-BUTOXYETHOXY)ETHANOL	112-34-5	>=5 - <10
SODIUM METASILICATE (DISODIUM SALT)	6834-92-0	>=1 - <5
2-BUTOXYETHANOL	111-76-2	>=1 - <5
SODIUM XYLENESULPHONATE	1300-72-7	>=1 - <5
ALCOHOLS, C10-14, ETHOXYLATED	66455-15-0	>=1 - <5

SECTION 4. FIRST AID MEASURES



GENERAL ADVICE:

MOVE OUT OF DANGEROUS AREA.

CONSULT A PHYSICIAN.

SHOW THIS SAFETY DATA SHEET TO THE DOCTOR IN ATTENDANCE.

DO NOT LEAVE THE VICTIM UNATTENDED.

IF INHALED:

IF UNCONSCIOUS PLACE IN RECOVERY POSITION AND SEEK MEDICAL ADVICE.

IF SYMPTOMS PERSIST, CALL A PHYSICIAN.

IN CASE OF SKIN CONTACT:
IMMEDIATE MEDICAL TREATMENT IS NECESSARY AS UNTREATED WOUNDS FROM CORROSION OF THE SKIN HEAL SLOWLY AND WITH DIFFICULTY.
IF ON SKIN, RINSE WELL WITH WATER.
IF ON CLOTHES, REMOVE CLOTHES.

IN CASE OF EYE CONTACT:

SMALL AMOUNTS SPLASHED INTO EYES CAN CAUSE IRREVERSIBLE TISSUE DAMAGE AND BLINDNESS.

IN THE CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.

CONTINUE RINSING EYES DURING TRANSPORT TO HOSPITAL. REMOVE CONTACT LENSES. PROTECT UNHARMED EYE.

KEEP EYE WIDE OPEN WHILE RINSING.

IF EYE IRRITATION PERSISTS, CONSULT A SPECIALIST.

IF SWALLOWED:
KEEP RESPIRATORY TRACT CLEAR.
DO NOT INDUCE VOMITING.
DO NOT GIVE MILK OR ALCOHOLIC BEVERAGES.
NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.
IF SYMPTOMS PERSIST, CALL A PHYSICIAN.
TAKE VICTIM IMMEDIATELY TO HOSPITAL.

SECTION 5. FIREFIGHTING MEASURES



SUITABLE EXTINGUISHING MEDIA:
USE WATER SPRAY, ALCOHOL-RESISTANT FOAM, DRY CHEMICAL OR CARBON DIOXIDE.

UNSUITABLE EXTINGUISHING MEDIA: HIGH VOLUME WATER JET

SPECIFIC HAZARDS DURING FIREFIGHTING:
DO NOT ALLOW RUN-OFF FROM FIRE FIGHTING TO ENTER DRAINS OR WATER COURSES.

HAZARDOUS COMBUSTION PRODUCTS:
CARBON DIOXIDE (CO₂)
CARBON MONOXIDE
SMOKE
SULPHUR OXIDES

SPECIFIC EXTINGUISHING METHODS:
USE EXTINGUISHING MEASURES THAT ARE APPROPRIATE TO LOCAL CIRCUMSTANCES AND THE SURROUNDING ENVIRONMENT.

FURTHER INFORMATION:
COLLECT CONTAMINATED FIRE EXTINGUISHING WATER SEPARATELY. THIS MUST NOT BE DISCHARGED INTO DRAINS.

FIRE RESIDUES AND CONTAMINATED FIRE EXTINGUISHING WATER MUST BE DISPOSED OF IN ACCORDANCE WITH LOCAL REGULATIONS. FOR SAFETY REASONS IN CASE OF FIRE, CANS SHOULD BE STORED SEPARATELY IN CLOSED CONTAINMENTS. USE A WATER SPRAY TO COOL FULLY CLOSED CONTAINERS.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:
WEAR SELF-CONTAINED BREATHING APPARATUS FOR FIREFIGHTING IF NECESSARY.

SECTION 6. ACCIDENTAL RELEASE MEASURES



PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:
USE PERSONAL PROTECTIVE EQUIPMENT.

ENVIRONMENTAL PRECAUTIONS:

PREVENT PRODUCT FROM ENTERING DRAINS.

PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO DO SO.

IF THE PRODUCT CONTAMINATES RIVERS AND LAKES OR DRAINS INFORM RESPECTIVE
AUTHORITIES.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:

NEUTRALISE WITH ACID.

SOAK UP WITH INERT ABSORBENT MATERIAL (E.G. SAND, SILICA GEL, ACID BINDER,
UNIVERSAL BINDER, SAWDUST).

KEEP IN SUITABLE, CLOSED CONTAINERS FOR DISPOSAL.

SECTION 7. HANDLING AND STORAGE



ADVICE ON SAFE HANDLING:

DO NOT BREATHE VAPOURS/DUST.

AVOID CONTACT WITH SKIN AND EYES.

FOR PERSONAL PROTECTION SEE SECTION 8.

SMOKING, EATING AND DRINKING SHOULD BE PROHIBITED IN THE APPLICATION AREA.

TO AVOID SPILLS DURING HANDLING KEEP BOTTLE ON A METAL TRAY.

DISPOSE OF RINSE WATER IN ACCORDANCE WITH LOCAL AND NATIONAL REGULATIONS.

CONDITIONS FOR SAFE STORAGE:

KEEP CONTAINER TIGHTLY CLOSED IN A DRY AND WELL-VENTILATED PLACE.

OBSERVE LABEL PRECAUTIONS.

ELECTRICAL INSTALLATIONS / WORKING MATERIALS MUST COMPLY WITH THE
TECHNOLOGICAL SAFETY STANDARDS.

MATERIALS TO AVOID: STORE AND KEEP AWAY FROM, OXIDIZING AGENTS AND ACIDS.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION



COMPONENTS WITH WORKPLACE CONTROL PARAMETERS:

COMPONENTS	CAS-NO.	VALUE TYPE (FORM OF EXPOSURE)	CONTROL PARAMETERS / PERMISSIBLE CONCENTRATION	BASIS
2-BUTOXYETHANOL	111-76-2	TWA	20 PPM	ACGIH
		TWA	5 PPM	NIOSH REL

24 MG/M3

TWA 50 PPM OSHA Z-1
240 MG/M3

TWA 25 PPM OSHA P0
120 MG/M3

BIOLOGICAL OCCUPATIONAL EXPOSURE LIMITS:

COMPONENT	CAS-NO.	CONTROL PARAMETERS	BIOLOGICAL SPECIMEN	SAMPLING TIME	PERMISSIBLE CONCENTRATION	BASIS
2-BUTOXY-ETHANOL	111-76-2	BUTOXY-ACETIC ACID (BAA)	URINE	END OF SHIFT (AS SOON AS POSSIBLE AFTER EXPOSURE CEASES)	200 MG/G	ACGIH BEI

REMARKS: CREATININE

PERSONAL PROTECTIVE EQUIPMENT:

RESPIRATORY PROTECTION:

NO PERSONAL RESPIRATORY PROTECTIVE EQUIPMENT NORMALLY REQUIRED.
IN CASE OF INSUFFICIENT VENTILATION, WEAR SUITABLE RESPIRATORY EQUIPMENT.

HAND PROTECTION:

REMARKS:

THE SUITABILITY FOR A SPECIFIC WORKPLACE SHOULD BE DISCUSSED WITH THE PRODUCERS OF THE PROTECTIVE GLOVES.

EYE PROTECTION:

EYE WASH BOTTLE WITH PURE WATER
TIGHTLY FITTING SAFETY GOGGLES
WEAR FACE-SHIELD AND PROTECTIVE SUIT FOR ABNORMAL PROCESSING PROBLEMS.

SKIN AND BODY PROTECTION:

IMPERVIOUS CLOTHING
CHOOSE BODY PROTECTION ACCORDING TO THE AMOUNT AND CONCENTRATION OF THE DANGEROUS SUBSTANCE AT THE WORK PLACE.

HYGIENE MEASURES:

WHEN USING DO NOT EAT OR DRINK.
WHEN USING DO NOT SMOKE.
WASH HANDS BEFORE BREAKS AND AT THE END OF WORKDAY.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES



APPEARANCE: LIQUID

COLOUR: BLUE

ODOUR: SOLVENT-LIKE

ODOUR THRESHOLD: NO DATA AVAILABLE

PH: 12.5 - 13.5

MELTING POINT/FREEZING POINT: NO DATA AVAILABLE

BOILING POINT: 104.44 DEG. C

FLASH POINT: DOES NOT FLASH

EVAPORATION RATE: 1

UPPER EXPLOSION LIMIT: NO DATA AVAILABLE

LOWER EXPLOSION LIMIT: NO DATA AVAILABLE

VAPOUR PRESSURE: NO DATA AVAILABLE

RELATIVE VAPOUR DENSITY: NO DATA AVAILABLE

DENSITY: 1.03 G/CM3

SOLUBILITY (IES):

WATER SOLUBILITY: SOLUBLE IN COLD WATER, SOLUBLE IN HOT WATER

SOLUBILITY IN OTHER SOLVENTS: SOLUBLE

PARTITION COEFFICIENT N-OCTANOL/WATER: NO DATA AVAILABLE

AUTO-IGNITION TEMPERATURE: NOT DETERMINED

THERMAL DECOMPOSITION: NO DATA AVAILABLE

VISCOSITY:

VISCOSITY, KINEMATIC: NO DATA AVAILABLE

SECTION 10. STABILITY AND REACTIVITY



REACTIVITY: STABLE

CHEMICAL STABILITY: STABLE UNDER NORMAL CONDITIONS.

POSSIBILITY OF HAZARDOUS REACTIONS:
NO DECOMPOSITION IF STORED AND APPLIED AS DIRECTED.

CONDITIONS TO AVOID: NO DATA AVAILABLE

INCOMPATIBLE MATERIALS:

ACIDS

OXIDIZING AGENTS

HAZARDOUS DECOMPOSITION PRODUCTS:
CARBON MONOXIDE, CARBON DIOXIDE AND UNBURNED
HYDROCARBONS (SMOKE).

SECTION 11. TOXICOLOGICAL INFORMATION



ACUTE TOXICITY:

PRODUCT:

ACUTE ORAL TOXICITY:

ACUTE TOXICITY ESTIMATE: >5,000 MG/KG

METHOD: CALCULATION METHOD

ACUTE INHALATION TOXICITY:
ACUTE TOXICITY ESTIMATE: >40 MG/L
EXPOSURE TIME: 4 H
TEST ATMOSPHERE: VAPOUR
METHOD: CALCULATION METHOD

ACUTE DERMAL TOXICITY:
ACUTE TOXICITY ESTIMATE: >5,000 MG/KG
METHOD: CALCULATION METHOD

COMPONENTS:
SODIUM METASILICATE (DISODIUM SALT):
ACUTE ORAL TOXICITY:
LD50 RAT: 1,153 MG/KG

SKIN CORROSION/IRRITATION:
PRODUCT:
REMARKS: EXTREMELY CORROSIVE AND DESTRUCTIVE TO TISSUE.

SERIOUS EYE DAMAGE/EYE IRRITATION:
PRODUCT:
REMARKS: MAY CAUSE IRREVERSIBLE EYE DAMAGE.

RESPIRATORY OR SKIN SENSITISATION: NO DATA AVAILABLE

GERM CELL MUTAGENICITY: NO DATA AVAILABLE

CARCINOGENICITY: NO DATA AVAILABLE

REPRODUCTIVE TOXICITY: NO DATA AVAILABLE

2-(2-BUTOXYETHOXY)ETHANOL:
SODIUM METASILICATE (DISODIUM SALT):
2-BUTOXYETHANOL:
SODIUM XYLENESULPHONATE:
ALCOHOLS, C10-14, ETHOXYLATED:

STOT - SINGLE EXPOSURE: NO DATA AVAILABLE
STOT - REPEATED EXPOSURE: NO DATA AVAILABLE

ASPIRATION TOXICITY: NO DATA AVAILABLE

FURTHER INFORMATION:
PRODUCT:
REMARKS: NO DATA AVAILABLE

SECTION 12. ECOLOGICAL INFORMATION



ECOTOXICITY: NO DATA AVAILABLE

PERSISTENCE AND DEGRADABILITY: NO DATA AVAILABLE

BIOACCUMULATIVE POTENTIAL:
PRODUCT:
PARTITION COEFFICIENT N-OCTANOL/WATER:
REMARKS: NO DATA AVAILABLE

COMPONENTS:
2-(2-BUTOXYETHOXY)ETHANOL:
PARTITION COEFFICIENT N-OCTANOL/WATER:

POW: 1

MOBILITY IN SOIL: NO DATA AVAILABLE

OTHER ADVERSE EFFECTS: NO DATA AVAILABLE

PRODUCT:

REGULATION:

40 CFR PROTECTION OF ENVIRONMENT; PART 82 PROTECTION OF STRATOSPHERIC OZONE - CAA SECTION 602 CLASS I SUBSTANCES

REMARKS:

THIS PRODUCT NEITHER CONTAINS, NOR WAS MANUFACTURED WITH A CLASS I OR CLASS II ODS AS DEFINED BY THE U.S.

CLEAN AIR ACT SECTION 602 (40 CFR 82, SUBPT. A, APP.A + B).

ADDITIONAL ECOLOGICAL INFORMATION: NO DATA AVAILABLE

SECTION 13. DISPOSAL CONSIDERATIONS



DISPOSAL METHODS:

WASTE FROM RESIDUES:

DISPOSE OF IN ACCORDANCE WITH LOCAL REGULATIONS.

DO NOT DISPOSE OF WASTE INTO SEWER.

DO NOT CONTAMINATE PONDS, WATERWAYS OR DITCHES WITH CHEMICAL OR USED CONTAINER.

CONTAMINATED PACKAGING:

EMPTY REMAINING CONTENTS.

DISPOSE OF AS UNUSED PRODUCT.

DO NOT RE-USE EMPTY CONTAINERS.

SECTION 14. TRANSPORT INFORMATION



TRANSPORTATION REGULATION:

49 CFR (USA): NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

TRANSPORTATION REGULATION:

IMDG (VESSEL): NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

TRANSPORTATION REGULATION:

IATA (CARGO AIR): NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

TRANSPORTATION REGULATION:

IATA (PASSENGER AIR):

NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

TRANSPORTATION REGULATION:

TDG (CANADA): NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

SECTION 15. REGULATORY INFORMATION



EPCRA - EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT:

CERCLA REPORTABLE QUANTITY:

COMPONENTS	CAS-NO.	COMPONENT RQ (LBS)	CALCULATED PRODUCT RQ (LBS)
METHANOL	67-56-1	5000	*

*: CALCULATED RQ EXCEEDS REASONABLY ATTAINABLE UPPER LIMIT.

SARA 304 EXTREMELY HAZARDOUS SUBSTANCES REPORTABLE QUANTITY:
THIS MATERIAL DOES NOT CONTAIN ANY COMPONENTS WITH A SECTION 304 EHS RQ.

SARA 311/312 HAZARDS: ACUTE HEALTH HAZARD

SARA 302:
NO CHEMICALS IN THIS MATERIAL ARE SUBJECT TO THE REPORTING REQUIREMENTS OF
SARA TITLE III, SECTION 302.

SARA 313:
THIS MATERIAL DOES NOT CONTAIN ANY CHEMICAL COMPONENTS WITH KNOWN CAS
NUMBERS THAT EXCEED THE THRESHOLD (DE MINIMIS) REPORTING LEVELS ESTABLISHED
BY SARA TITLE III, SECTION 313.

CALIFORNIA PROP 65:
WARNING:
THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE
BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

METHANOL 67-56-1

THE COMPONENTS OF THIS PRODUCT ARE REPORTED IN THE FOLLOWING INVENTORIES:
TSCA: ON TSCA INVENTORY
DSL: ALL COMPONENTS OF THIS PRODUCT ARE ON THE CANADIAN DSL
AICS: ON THE INVENTORY, OR IN COMPLIANCE WITH THE INVENTORY
NZIOC: NOT IN COMPLIANCE WITH THE INVENTORY
PICCS: ON THE INVENTORY, OR IN COMPLIANCE WITH THE INVENTORY
IECSC: ON THE INVENTORY, OR IN COMPLIANCE WITH THE INVENTORY

INVENTORY ACRONYM AND VALIDITY AREA LEGEND:
AICS (AUSTRALIA), DSL (CANADA), IECSC (CHINA), REACH (EUROPEAN UNION),
ENCS (JAPAN), ISHL (JAPAN), KECI (KOREA), NZIOC (NEW ZEALAND), PICCS
(PHILIPPINES), TCSI (TAIWAN), TSCA (USA)

SECTION 16. OTHER INFORMATION



FURTHER INFORMATION:

NFPA:
HEALTH 3
FLAMMABILITY 1
INSTABILITY 0
SPECIAL HAZARD.

HMIS III:
HEALTH 3
FLAMMABILITY 0
PHYSICAL HAZARD 0

0 = NOT SIGNIFICANT
1 = SLIGHT

2 = MODERATE
3 = HIGH
4 = EXTREME
* = CHRONIC

OSHA GHS LABEL INFORMATION:

HAZARD PICTOGRAMS: CORROSION

SIGNAL WORD: DANGER

HAZARD STATEMENTS: CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.

PRECAUTIONARY STATEMENTS:

PREVENTION:

WASH SKIN THOROUGHLY AFTER HANDLING. WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION.

RESPONSE:

IF SWALLOWED: RINSE MOUTH. DO NOT INDUCE VOMITING.

IF ON SKIN (OR HAIR):

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

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 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. WASH CONTAMINATED CLOTHING BEFORE REUSE.

STORAGE: STORE LOCKED UP.

DISPOSAL:

DISPOSE OF CONTENTS/CONTAINER IN ACCORDANCE WITH LOCAL REGULATION.

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