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MSDS

Common Name: LIQUID OVEN CLEANER**Manufacturer:** W.W. GRAINGER**MSDS Revision Date:** 10/15/2007**Grainger Item Number(s):** 2CXT1**Manufacturer Model Number(s):**

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TOUGH GUY

MATERIAL SAFETY DATA SHEET

LIQUID OVEN CLEANER

VERSION NUMBER: 1

PREPARATION DATE: 2007-10-15

1. PRODUCT AND COMPANY IDENTIFICATION



PRODUCT NAME: LIQUID OVEN CLEANER

MSDS #: MS0600416

PRODUCT CODE: 2CXT1

RECOMMENDED USE: OVEN AND GRILL CLEANER.

MANUFACTURER, IMPORTER, SUPPLIER:

MANUFACTURED FOR:
W. W. GRAINGER, INC.
100 GRAINGER PARKWAY
LAKE FOREST, IL 60045-5201

PHONE: 1-847-535-1000

TECHNICAL SERVICE: 1-847-535-5400

EMERGENCY TELEPHONE NUMBER: 1-800-983-4582

2. HAZARDS IDENTIFICATION



EMERGENCY OVERVIEW:

DANGER

CORROSIVE

CAUSES SKIN AND EYE BURNS

HARMFUL OR FATAL IF SWALLOWED

PRINCIPLE ROUTES OF EXPOSURE:

EYE CONTACT

SKIN CONTACT

INHALATION

EYE CONTACT:

CORROSIVE

CAUSES PERMANENT EYE DAMAGE, INCLUDING BLINDNESS

SKIN CONTACT:

CORROSIVE

CAUSES PERMANENT DAMAGE

INHALATION:

MAY CAUSE IRRITATION AND CORROSIVE EFFECTS TO NOSE, THROAT AND RESPIRATORY TRACT

INGESTION:

CORROSIVE

CAUSES BURNS TO MOUTH, THROAT AND STOMACH

3. COMPOSITION/INFORMATION ON INGREDIENTS



HAZARDOUS COMPONENTS:

INGREDIENT(S)	CAS #	WEIGHT %
POTASSIUM HYDROXIDE	1310-58-3	5 - 10%
DIPROPYLENE GLYCOL METHYL ETHER	34590-94-8	5 - 10%

HAZARDOUS COMPONENTS:

INGREDIENT(S)	LD50 ORAL - RAT (MG/KG)	LD50 DERMAL - RABBIT	LC50 INHALATION - RAT
POTASSIUM HYDROXIDE	275	NOT AVAILABLE	NOT AVAILABLE
DIPROPYLENE GLYCOL METHYL ETHER	5135	9500 MG/KG	NOT AVAILABLE

4. FIRST AID MEASURES



EYE CONTACT:

IMMEDIATELY FLUSH EYES WITH RUNNING WATER FOR 15-20 MINUTES, KEEPING EYELIDS OPEN
GET MEDICAL ATTENTION IMMEDIATELY

SKIN CONTACT:

IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR 15-20 MINUTES
GET MEDICAL ATTENTION IMMEDIATELY

INHALATION:

IF BREATHING IS AFFECTED, REMOVE TO FRESH AIR
GET MEDICAL ATTENTION IMMEDIATELY

INGESTION:

IF SWALLOWED, RINSE MOUTH
GIVE A CUPFUL OF WATER OR MILK
THEN IMMEDIATELY CONTACT A PHYSICIAN OR POISON CENTER
DO NOT INDUCE VOMITING UNLESS DIRECTED TO DO SO BY MEDICAL PERSONNEL
NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON

AGGRAVATED MEDICAL CONDITIONS:

INDIVIDUALS WITH CHRONIC RESPIRATORY DISORDERS SUCH AS ASTHMA, CHRONIC BRONCHITIS, EMPHYSEMA, ETC., MAY BE MORE SUSCEPTIBLE TO IRRITATING EFFECTS

5. FIRE-FIGHTING MEASURES



SUITABLE EXTINGUISHING MEDIA: NOT APPLICABLE

SPECIFIC HAZARDS: NOT APPLICABLE

UNUSUAL HAZARDS: NONE KNOWN

SPECIFIC METHODS: NO SPECIAL METHODS REQUIRED

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:

AS IN ANY FIRE, WEAR SELF-CONTAINED BREATHING APPARATUS PRESSURE-DEMAND, MSHA/NIOSH (APPROVED OR EQUIVALENT) AND FULL PROTECTIVE GEAR

EXTINGUISHING MEDIA WHICH MUST NOT BE USED FOR SAFETY REASONS:

NO INFORMATION AVAILABLE

6. ACCIDENTAL RELEASE MEASURES



PERSONAL PRECAUTIONS: USE PERSONAL PROTECTIVE EQUIPMENT

ENVIRONMENTAL PRECAUTIONS AND CLEAN-UP METHODS: NO INFORMATION AVAILABLE

7. HANDLING AND STORAGE



HANDLING:

AVOID CONTACT WITH SKIN, EYES AND CLOTHING
DO NOT TASTE OR SWALLOW
AVOID BREATHING VAPORS OR MISTS

USE ONLY WITH ADEQUATE VENTILATION
 REMOVE AND WASH CONTAMINATED CLOTHING AND FOOTWEAR BEFORE RE-USE
 WASH THOROUGHLY AFTER HANDLING
 PRODUCT RESIDUE MAY REMAIN ON/IN EMPTY CONTAINERS

ALL PRECAUTIONS FOR HANDLING THE PRODUCT MUST BE USED IN HANDLING THE
 EMPTY CONTAINER AND RESIDUE

DO NOT MIX WITH ANY OTHER PRODUCT OR CHEMICAL

FOR COMMERCIAL AND INDUSTRIAL USE ONLY:

STORAGE:

PROTECT FROM FREEZING

KEEP TIGHTLY CLOSED IN A DRY, COOL AND WELL-VENTILATED PLACE

KEEP OUT OF REACH OF CHILDREN

8. EXPOSURE CONTROLS / PERSONAL PROTECTION



ENGINEERING MEASURES TO REDUCE EXPOSURE:

GOOD GENERAL VENTILATION SHOULD BE SUFFICIENT TO CONTROL AIRBORNE LEVELS
 RESPIRATORY PROTECTION IS NOT REQUIRED IF GOOD VENTILATION IS MAINTAINED

PERSONAL PROTECTIVE EQUIPMENT:

EYE PROTECTION: CHEMICAL-SPLASH GOGGLES

HAND PROTECTION: CHEMICAL-RESISTANT GLOVES

SKIN AND BODY PROTECTION:

PROTECTIVE FOOTWEAR

IF MAJOR EXPOSURE IS POSSIBLE, WEAR SUITABLE PROTECTIVE CLOTHING AND
 FOOTWEAR

RESPIRATORY PROTECTION:

IN CASE OF INSUFFICIENT VENTILATION WEAR SUITABLE RESPIRATORY EQUIPMENT

A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA'S 29 CFR 1910.134 AND
 ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS
 WARRANT A RESPIRATOR'S USE

HYGIENE MEASURES:

HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICE

PERSONAL PROTECTIVE EQUIPMENT:

CHEMICAL GOGGLES

GLOVES

BOOTS

INGREDIENT(S)	CAS #	ACGIH	OSHA	MEXICO
POTASSIUM HYDROXIDE	1310-58-3	2 MG/M3 (CEILING)		
DIPROPYLENE GLYCOL	34590-94-8	150 PPM (STEL)	SKIN 100 PPM	150 PPM (STEL)
METHYL ETHER		100 PPM (TWA)	(TWA) 600 MG/M3 (TWA)	900 MG/M3 (STEL) 60 MG/M3 (TWA) 100 PPM

9. PHYSICAL AND CHEMICAL PROPERTIES



PHYSICAL STATE: LIQUID

APPEARANCE: AQUEOUS SOLUTION

SPECIFIC GRAVITY: 1.064

pH: 13

DILUTION pH: NO INFORMATION AVAILABLE.

ELEMENTAL PHOSPHORUS: 0.19%P

DENSITY: 8.86 LBS/GAL

BULK DENSITY: NO INFORMATION AVAILABLE

VAPOR DENSITY: NO INFORMATION AVAILABLE

EVAPORATION RATE: NO INFORMATION AVAILABLE

SOLUBILITY: COMPLETELY SOLUBLE

VOC: 5.0% *

VISCOSITY: NO INFORMATION AVAILABLE

SOLUBILITY IN OTHER SOLVENTS: NO INFORMATION AVAILABLE

PARTITION COEFFICIENT (n-OCTANOL/WATER): NO INFORMATION AVAILABLE

COLOR: AMBER

ODOR: LEMON

BOILING POINT/RANGE: NOT DETERMINED

MELTING POINT/RANGE: NOT DETERMINED

FLASH POINT:

>200 DEG. F

>93.3 DEG. C

DECOMPOSITION TEMPERATURE: NOT DETERMINED

AUTOIGNITION TEMPERATURE: NO INFORMATION AVAILABLE

* - TITLE 17, CALIFORNIA CODE OF REGULATIONS, DIVISION 3, CHAPTER 1,
SUBCHAPTER 8.5, ARTICLE 2, CONSUMER PRODUCTS, SECTIONS 94508

10. STABILITY AND REACTIVITY



STABILITY: THE PRODUCT IS STABLE

POLYMERIZATION: HAZARDOUS POLYMERIZATION DOES NOT OCCUR

HAZARDOUS DECOMPOSITION PRODUCTS: NONE REASONABLY FORESEEABLE.

MATERIALS TO AVOID:

ACIDS

DO NOT MIX WITH ANY OTHER PRODUCT OR CHEMICAL

11. TOXICOLOGICAL INFORMATION



ACUTE TOXICITY:

CORROSIVE ORAL LD50: ESTIMATED TO BE 3000 - 4000 MG/KG

DERMAL LD50: ESTIMATED TO BE >2000 MG/KG

COMPONENT INFORMATION: SEE SECTION 3

CHRONIC TOXICITY: NONE KNOWN

SPECIFIC EFFECTS:

CARCINOGENIC EFFECTS: NONE KNOWN

MUTAGENIC EFFECTS: NONE KNOWN

REPRODUCTIVE TOXICITY: NONE KNOWN

TARGET ORGAN EFFECTS: NONE KNOWN

12. ECOLOGICAL INFORMATION



ENVIRONMENTAL INFORMATION: NO DATA AVAILABLE

13. DISPOSAL CONSIDERATIONS



WASTE FROM RESIDUES / UNUSED PRODUCTS:

UNDILUTED PRODUCT IS REGULATED UNDER ENVIRONMENTAL AND TRANSPORTATION LAWS
AS A CORROSIVE WASTE

DISPOSE OF ACCORDING TO ALL FEDERAL, STATE AND LOCAL APPLICABLE REGULATIONS

RCRA HAZARD CLASS: D002

14. TRANSPORT INFORMATION



DOT/TDG:

PLEASE REFER TO THE BILL OF LADING/RECEIVING DOCUMENTS FOR UP TO DATE
SHIPPING INFORMATION

15. REGULATORY INFORMATION



INTERNATIONAL INVENTORIES:

ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON THE FOLLOWING INVENTORIES:
U.S.A. (TSCA).

U.S. REGULATIONS:

CALIFORNIA PROPOSITION 65:

THIS PRODUCT IS NOT SUBJECT TO THE REPORTING REQUIREMENTS UNDER
CALIFORNIA'S PROPOSITION 65

SARA 311/312 HAZARD CATEGORIES:

IMMEDIATE (X)
DELAYED ()
FIRE ()
REACTIVITY ()
SUDDEN RELEASE OF PRESSURE ()

CANADA:

WHMIS HAZARD CLASS: NOT FOR SALE IN CANADA.

STATE RIGHT TO KNOW:

INGREDIENT(S)	CAS#	NJRTK	MARTK	PARTK	RIRTK
POTASSIUM HYDROXIDE	1310-58-3	X	X	X	X
WATER	7732-18-5				
DIPROPYLENE GLYCOL METHYL ETHER	34590-94-8	X	X	X	X
ORGANIC PHOSPHATE ESTER	68130-47-2				

CERCLA / SARA:

INGREDIENT(S)	CAS #	WEIGHT %	CERCLA/SARA RQ (LBS)	SECTION 302 TPQ (LBS)	SECTION 313
POTASSIUM HYDROXIDE	1310-58-3	5 - 10%	1000		

16. OTHER INFORMATION

HMIS:

HEALTH 3
FIRE HAZARD 0
REACTIVITY 1

NFPA:

HEALTH 3
FLAMMABILITY 0
INSTABILITY 1

REASON FOR REVISION: NOT APPLICABLE

PREPARED BY: NAPRAC

ADDITIONAL ADVICE: NONE

NOTICE TO READER:

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