

Safety Data Sheet



Manufactured For:
W.W. GRAINGER, INC.
100 Grainger Pkwy.
Lake Forest, IL 60045-5201
1-847-535-1000
www.grainger.com

Section 1. Chemical Product and Company Identification

Product name TOUGH GUY LEMON QUAT 64
DISINFECTANT
Product use Cleaner.Disinfectant.
Product code 12M189 / 12M190
Date of issue 06/22/12 **Supersedes** 04/23/12

This product is a registered pesticide. EPA Registration Number: 1839-101-10367

Emergency Telephone Numbers

For MSDS Information:
Technical Services 1-847-535-5400

For Medical Emergency
(800) 983-4582 Toll Free

For Transportation Emergency
CHEMTREC: (800) 424-9300 - All Calls Recorded
In the District of Columbia (202) 483-7616

Prepared By
Compliance Services
1420 Seaboard Industrial Blvd.
Atlanta, GA 30318

Section 2. Hazards Identification

Emergency overview

DANGER!

*Hazard Determination System (HDS): Health, Flammability, Reactivity



CAUSES EYE AND SKIN BURNS. HARMFUL IF SWALLOWED.

NOTE: MSDS data pertains to the product as delivered in the original shipping container(s). Risk of adverse effects are lessened by following all prescribed safety precautions, including the use of proper personal protective equipment.

Acute Effects

Routes of Entry

Dermal contact. Eye contact.

Eyes Corrosive to eyes. Direct contact with the eyes can cause irreversible damage, including blindness.

Skin Causes skin burns. Irritating to skin. Skin inflammation is characterized by itching, scaling, reddening or, occasionally, blistering.

Inhalation Over-exposure by inhalation may cause respiratory irritation.

Ingestion Harmful if swallowed. May cause burns to mouth, throat and stomach.

Chronic effects Contains material which may cause damage to the following organs: kidneys.

Carcinogenicity

No known significant effects or critical hazards.

Product/ingredient name

Not available.

Additional Information: See Toxicological Information (Section 11)

Section 3. Composition/Information on Ingredients

Name of Hazardous Ingredients

CAS number

% by Weight

disodium metasilicate	6834-92-0	1 - 10
tetrapotassium pyrophosphate	7320-34-5	1 - 10
Nonylphenol, ethoxylated	9016-45-9	1 - 10
tetrasodium ethylene diamine tetraacetate	64-02-8	1 - 5

Section 4. First Aid Measures

Eye Contact Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Call medical attendant, medical doctor, or poison control center.

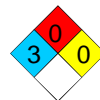
Skin Contact In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Call medical attendant, medical doctor, or poison control center.

Inhalation Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Call medical attendant, medical doctor, or poison control center.

Ingestion Call medical doctor or poison control center immediately. Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.
Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.

Section 5. Fire Fighting Measures

National Fire Protection Association (U.S.A.)



Flash Point Not applicable.

Flammable Limits Not available.

Flammability Non-combustible.

Fire hazard In a fire or if heated, a pressure increase will occur and the container may burst.

Fire-Fighting Procedures Use an extinguishing agent suitable for the surrounding fire.

Section 6. Accidental Release Measures

Spill Clean up Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and Storage

Handling Put on appropriate personal protective equipment (see section 8). Do not get in eyes or on skin or clothing. Do not ingest. Empty containers retain product residue and can be hazardous. Do not reuse container. Wash thoroughly after handling. Observe label precautions.

Storage Store in a dry, cool and well-ventilated area. Keep container tightly closed and sealed until ready for use. Do not store in unlabeled containers. Keep away from food, drink and animal feeding stuffs. Keep out of the reach of children.

Section 8. Exposure Controls/Personal Protection

Product name

Exposure limits

No exposure limit value known.

Personal Protective Equipment (PPE)

Eyes Chemical splash goggles or face shield.

Body Wear appropriate protective clothing to prevent skin contact.
Recommended: Rubber gloves. Wear apron or coverall if there is a risk of exposure to splashes.



Respiratory Use with adequate ventilation. No special protection is required.

Section 9. Physical and Chemical Properties

Physical State Liquid.

Color Blue. Green. Clear.

pH 12.5 to 13.5

Odor Lemon-like. Citrus

Boiling Point 101.67°C (215°F)

Vapor Pressure Not available.

Specific Gravity 1.08

Vapor Density Not available.

Solubility Easily soluble in the following materials: cold water and hot water.

Evaporation Rate 1 (Water = 1)

VOC (Consumer) 0.28 % (w/w) 0.0252 lbs/gal (3 g/l)

Section 10. Stability and Reactivity

Stability and Reactivity The product is stable.

Incompatibility Reactive or incompatible with the following materials: oxidizing materials.

Hazardous Polymerization Under normal conditions of storage and use, hazardous polymerization will not occur.

Hazardous Decomposition Products Ammonia., carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂ etc.)

Section 11. Toxicological Information

Acute Toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Nonylphenol, ethoxylated	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
disodium metasilicate	LD50 Oral	Rat	1153 mg/kg	-
tetrasodium ethylene diamine tetraacetate	LD50 Oral	Rat	10 g/kg	-

Section 12. Ecological Information**Environmental Effects**

Toxic to: Fish. Observe label precautions. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Aquatic Ecotoxicity


Product/ingredient name	Test	Result	Species	Exposure
Nonylphenol, ethoxylated	-	Acute EC50 12 mg/L Fresh water	Algae - Green algae - Pseudokirchneriella subcapitata	96 hours
	-	Acute LC50 1 to 2 ug/L Fresh water	Crustaceans - Fairy shrimp - Thamnocephalus platyurus - Nauplii - 24 hours	48 hours
	-	Acute LC50 4800 ug/L Fresh water	Daphnia - Water flea - Daphnia pulex - Larvae - <=24 hours	48 hours
	-	Acute LC50 1300 ug/L Fresh water	Fish - Bluegill - Lepomis macrochirus - 1 g	96 hours
	-	Chronic NOEC 35 ug/L Fresh water	Fish - Medaka, high-eyes - Oryzias latipes - Fry - 1 days post-hatch	100 days
disodium metasilicate	-	Acute EC50 33.53 mg/L Fresh water	Crustaceans - Water flea - Ceriodaphnia dubia - Neonate - <24 hours	48 hours
tetrasodium ethylene diamine tetraacetate	-	Acute EC50 610 mg/l	Daphnia	24 hours
	-	Acute LC50 486000 ug/L Fresh water	Fish - Bluegill - Lepomis macrochirus	96 hours

Section 13. Disposal Considerations**Waste Information**

Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your local or regional authorities for additional information.

Waste Stream Code: D002
Classification: Hazardous waste.
Origin: RCRA waste.

Section 14. Transport Information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label
DOT Classification	UN1760	Corrosive liquid, n.o.s. (Quaternary Ammonium Compounds)	8	III	

NOTE: DOT classification applies to most package sizes. For specific container size classifications or for size exceptions, refer to the Bill of Lading with your shipment.

PG* : Packing group

Section 15. Regulatory Information**U.S. Federal Regulations**

SARA 313 toxic chemical notification and release reporting:

No products were found.

Clean Water Act (CWA) 311: No products were found.

Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

All Components of this product are listed or exempt from listing on TSCA Inventory.

State Regulations

California Prop 65 No products were found.

Section 16. Other Information

*To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution.
Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.*

*NOTE: Hazard Determination System (HDS) ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although these ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HDS ratings are to be used with a fully implemented program to relay the meanings of this scale.