

MATERIAL SAFETY DATA SHEET

Date: 02/16/2010

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION**Product Name:** Dilution D'Orange**Product Number:** 6971

Manufactured under license for

Griffin Chemical Co., LLC

W.O.W! Brand Products

Tonawanda, NY 14150

1-877-792-8389

24 hr/7 day Emergency: INFOTRAC 1-800-535-5053**SECTION 2 – COMPOSITION INFORMATION ON INGREDIENTS**

CHEMICAL NAME/COMMON NAME	CAS NO.	Weight %	Exposure standards	
Potassium Hydroxide	1310-58-3	.01 - 0.40	OSHA (PEL) N/A	ACGIH (TLV) 2mg/m ³ (ceiling)
Chelating Agent	144538-83-0	.05 - 1.0	OSHA (PEL) N/A	ACGIH(TLV) N/A
Surfactant	68412-54-4	.05 - 1.0	OSHA (PEL) N/A	ACGIH(TLV) N/A
Citrus Solvent surfactant blend	Prop	.02 - 10	OSHA (PEL) N/A	ACGIH(TLV) N/A
Water	7732-18-5	96.5 - 99.9	OSHA (PEL) N/A	ACGIH(TLV) N/A

Other ingredients in this product are: Trade Secret

SECTION 3 – HAZARD IDENTIFICATION

HMIS III Ratings:

Health - 1 Flammability - 0 Physical Hazard - 0

Personal Protection - B

**Principle routes of exposure:** Eye contact, skin contact**Eye Contact:** Irritating to eyes**Skin Contact:** Skin irritation may occur**Inhalation:** Inhalation of mist can cause irritation and damage to respiratory tract and lung tissue**Ingestion:** Swallowing may cause damage to mucous membranes and other tissue.**SECTION 4 – FIRST AID MEASURES****Eyes:** Remove contact lenses and flush with plenty of water. If irritation persists, seek medical attention.**Skin:** Wash with water. Call doctor if irritation persists.**Ingestion:** Do not administer water to an unconscious person. If conscious, give two glasses of water. Keep head lower than hips. **Do not induce vomiting.** Seek medical attention.**Inhalation:** Move to fresh air. If unconscious give CPR. If breathing is difficult, have trained personnel administer oxygen and seek medical attention.**SECTION 5 – FIRE FIGHTING MEASURES****Flash point (T.C.C.):** None to boiling **Flammable Limits:** Upper n/a Lower n/a**Extinguishing Media:** Dry chemical, CO₂, water spray, foam, water mist/fog for cooling**Special Firefighting Procedures:** Enter area with proper protection, fight fire from a safe distance or location. Heat may build enough to rupture closed containers, increasing risk. Remove if possible.**Unusual Fire and Explosion Hazards:** None

SECTION 6 – ACCIDENTAL RELEASE

Steps to be taken if spilled or released: Soak up with oil dry absorbent or other inert material. Sweep up and containerize. Rinse area thoroughly with water. Wear and use appropriate protective clothing, and proceed according to Federal, State & Local regulations. There are no special methods of disposal. Observe and follow local regulations regarding disposal of non-hazardous materials. Waste from normal product use may be removed to a public-owned treatment works (POTW) facility in compliance with Federal, State and local pretreatment requirements.

SECTION 7 – HANDLING AND STORAGE

Handling

Emergency showers and eye wash stations should be readily accessible. Adhere to work practice rules established by government regulations. Use only in well ventilated areas. Avoid contact with eyes. Avoid breathing vapors or mists. Product residue may remain on or in empty container.

Storage

Keep containers tightly closed and store in a cool dry place with adequate ventilation. Keep from freezing. Do not store near acids.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation Requirements: 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: If major exposure is possible, wear suitable protective clothing and slip resistant footwear.

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety practices.

SECTION 9 - PHYSICAL DATA

Form: Liquid

Appearance and color: Emerald green

Odor: Citrusy

Boiling point: 212F (100C)

pH: Dilution D: 10.4 – 11.4

Specific gravity: 1.00 – 1.03

Water solubility: Complete

Flash point: None to boiling

SECTION 10 – STABILITY AND REACTIVITY

Stability: Stable under normal conditions of use and storage.

Incompatibility: Strong acids and oxidizers.

Hazardous decomposition products: Carbon monoxide and carbon dioxide.

SECTION 11- TOXICOLOGICAL INFORMATION

Product Number: 6971

Data is for various components in the formulation.

The chemicals in this product are not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP or EPA.

Potassium hydroxide

Eye: Corrosive to the rabbit

Skin: Corrosive to the rabbit

Ingestion: LD50 (oral-rat) 140-340 mg/kg

Chelating Agent

Eye: Not irritating to the rabbit

Skin: Not irritating in the rabbit. Dermal LD50 >2000 mg/kg (rabbit)

Ingestion: LD50 (oral-rat) > 2000 mg/kg

Inhalation: Rat TCLO = 500 ppm/28-days

Surfactant

Eye: Slightly irritating to the rabbit

Skin: Not irritating in the rabbit. Dermal LD50 >2000m g/kg (rabbit)

Ingestion: Non toxic. LD50 (oral-rat) > 5.00 g/kg

Inhalation: Not determined

SECTION 12 – ECOLOGICAL INFORMATION

Bioaccumulation of this product is not likely. Data is for the various components in the formulation.

Chelating Agent

Fish toxicity: Zebra fish, LC50 >82.6 mg/L 96 hours

Biodegradation: Zahn-Wellens Test, 89-99%

Persistence/Degradability: COD = 510 mg/g, BOD = 278 mg/g, 7-days

Surfactant

Fish toxicity: Not determined

Biodegradation: Not determined

Persistence/Degradability: Not determined

SECTION 13 – DISPOSAL CONSIDERATIONS

Dispose of in accordance with Federal State and local regulations. Do not dump outside or into storm sewers. Empty containers should be washed and recycled or returned for refilling.

SECTION 14 – TRANSPORTATION INFORMATION

Not regulated

SECTION 15 – REGULATORY INFORMATION

All components of this product are listed on the TSCA (USA) and DSL (Canada) inventories. There are no ingredients subject to the reporting requirements under California's Proposition 65.

SECTION 16 – OTHER INFORMATION

The hazards on this MSDS apply to the product as supplied in concentrate form. Hazards may differ significantly at use dilution. The signs and symptoms of overexposure apply only to negligence in handling or misuse of the concentrated product and not to the routine exposure to the diluted product under conditions of ordinary use.