



Material Safety Data Sheet

Section 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name/ Trade Name: Orange Clean Multipurpose Degreaser (RTU) HMIS codes H F R P
0 0 0 A

Supplier: Orange Glo International
PO Box 3998
Littleton, CO 80110 USA

MSDS preparation date: October 2, 2001
By: L. Brown

MSDS Revision date: June 13, 2002

MSDS Reviewed: June 13, 2002

Emergency Phone: 303-740-1909
Poison Control (US): 1-800-222-1222
Transportation emergencies: ChemTrec 800-424-9300

Information Phone: 303-740-1909

Section 2: COMPOSITION/INFORMATION ON INGREDIENTS

General Description: Ready to use citrus based degreaser and cleaner for hard surfaces

Hazardous Ingredients:

Ingredients not precisely identified are proprietary or nonhazardous

CAS #	Chemical name	%'age range
8028-48-6	Orange Oil	0.5-3%
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Section 3: HAZARDS IDENTIFICATION

This product is a consumer product. To the extent the product is used in a fashion typical to that of a consumer, protective measures, with the exception of those indicated on the label, are not normally necessary. Where use conditions and/or extent and duration of exposure differ from typical consumer use, however, appropriate protective measures to prevent eye and prolonged skin contact (glasses, goggles, rubber gloves, protective clothing) and minimize inhalation exposure (engineering controls, NIOSH-approved respiratory protection appropriate for the hazard presented) are recommended.

General: Eye Irritant
Emergency: --
Primary Route(s) of Entry: Eye, skin contact
Effects of Overexposure-
Inhalation: Not expected to be an inhalation hazard
Effects of Overexposure-
Ingestion: Not expected to be an ingestion hazard
Effects of Overexposure-Eyes: May cause irritation
Effects of Overexposure-Skin: Prolonged contact may cause slight irritation
Effects of Overexposure-Chronic: None known
Hazards:

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Section 4:	FIRST AID MEASURES
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- Skin: Wash with water. Call a doctor if irritation develops
- Eyes: Immediately flush with water for 14 minutes. Call a doctor if irritation persists
- Ingestion: Do not induce vomiting. Rinse mouth with water, then drink one glass of water. Contact a doctor immediately. Never give anything by mouth if victim is unconscious, is rapidly losing consciousness or convulsing.
- Inhalation: Remove to fresh air. If symptoms persist, call a doctor.

Section 5:	FIRE FIGHTING MEASURES
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Flashpoint and method used:	not flammable	Flammable limit: (LEL)	NA	Flammable limit: (UEL)	NA
Auto-ignition temperature:	N.A.				
Extinguishing media:	Treat for surrounding material				
Special fire-fighting protective equipment:	None known				
Unusual fire and explosion hazards:	None known				
Explosion data:	N.A.				

Section 6:	ACCIDENTAL RELEASE MEASURES
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Personal protective equipment:	Chemical splash goggles or safety glasses if exposure may occur
Material release or spill:	Before attempting clean up, refer to data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labeled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice.
Other:	None

Section 7:	HANDLING AND STORAGE
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Storage:	Store in closed container. Store away from incompatible materials
Precautions during handling and storage:	None

Section 8:	EXPOSURE CONTROLS/PERSONAL PROTECTION
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Exposure limits:	NE
Engineering controls:	General ventilation normally adequate



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Eye protection: Chemical splash goggles or safety glasses if exposure may occur
Protective clothing: As required by employer code
Respiratory protection: Not needed
Other PPE: None

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear colorless to pale yellow
Odor: Orange
Physical state: Liquid

Boiling point: 100 deg C
Vapor Pressure: ND
Solubility in water: Complete
pH: 7.5-8.5
Melting point: NA
% volatile by volume: 0.9-1.5%
Partition coefficient: ND
Coefficient of water/oil distribution: ND

Vapor density: Similar to air
Evaporation rate: Similar to water
Viscosity: Water thin
Specific Gravity: 1.0
Cloud point: ND
Freezing point: 0 deg C

Section 10: STABILITY AND REACTIVITY

Stability: Stable
Incompatibility: Strong oxidizing agents (e.g. sodium hypochlorite, hydrogen peroxide)
Conditions to avoid: High temperature and freezing
Hazardous decomposition: None known
Hazardous polymerization: None known

Section 11: TOXICOLOGICAL PROPERTIES

Acute oral toxicity >5000 mg/kg
Carcinogenicity: No components are listed as carcinogenic as per OSHA, IARC or NTP
Reproductive toxicity/ Contains no known components that have reproductive toxicity
Teratogenicity:
Mutagenicity: ND
Toxicologically synergistic products: None known

Section 12: ECOLOGICAL INFORMATION

Persistence and degradation: Not established, but contains components that are known to be biodegradable
Toxicity: NE
Other: --

Section 13: DISPOSAL CONSIDERATIONS

Disposal method: Review federal, state, and local government requirements prior to disposal
Container disposal: Review federal, state, and local government requirements prior to disposal



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Section 14:	TRANSPORT INFORMATION
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DOT proper shipping name:	Not regulated	DOT technical name:	NA
DOT Hazard class:	NA	Hazard subclass:	NA
UN Number, proper shipping name:	NA	Packing group:	NA
Other Transport information:	Non hazardous for transport		

Section 15:	REGULATORY INFORMATION
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TSCA:	All components are listed
DSL:	All components are listed
OSHA Haz Com 29 CFR 1910.1200:	MSDS prepared pursuant to the Hazard Communication Standard (29 CFR 1910.1200)
WHMIS Classification:	D2B - eye irritant
CERCLA and SARA:	Contains no listed components

Section 16:	OTHER INFORMATION
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% Volatile Organic Compounds (VOCs)	0.9-1.5%
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Legend:	N.D. Not Determined	N.E. Not Established	N.A. Not Applicable
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The information provided has been adapted from the manufacturer supplied MSDS. The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from use of MSDS information.



MSDS Addendum

Always follow label instructions and warnings. Typical use of product is a guideline only.

Typical Use of Product:	Ready to use from spary container to clean hard surfaces of dirt and grease. No dilution required.
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