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## Material Safety Data Sheet

### 1. PRODUCT IDENTIFICATION

**Product Name:** Orange Lightning Cleaner 946 ml  
**Product Type:** Multi-Purpose Germicidal Cleaner  
**Item Number:** C47946

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight%	ACGIH; TLV-TWA	OSHA PEL
2-BUTOXYETHANOL 111-76-2	1-5	20 ppm	50 ppm; 240 mg/m <sup>3</sup>
ETHOXYLATED C9-C11 ALCOHOLS 68439-46-3	1-5	NA	NA

### 3. HAZARDS IDENTIFICATION

**Effects of Acute Exposure:** Product may cause reversible eye and skin irritation.  
May cause respiratory irritation

**Primary Routes of Entry:** Eyes, Skin, Inhalation

**Signs and Symptoms of Exposure:** Overexposure may cause eye and skin redness. Irritating to mucous membranes. Ingestion may cause nausea and vomiting.

**Aggravated Medical Condition:** Preexisting eye, skin and respiratory disorders may be aggravated by overexposure to this product.

**Chronic Health Hazard** None known

### 4. FIRST AID MEASURES

**Eye Contact:** Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Contact a physician if irritation persists.

**Skin Contact:** Flush with water. Wash off with soap and water. Remove contaminated clothing and launder before reuse. If skin irritation persists, call a physician.

**Ingestion:** If swallowed, DO NOT induce vomiting. Give victim water, call a physician immediately. Never give anything by mouth to an unconscious person

**Inhalation:** Move to fresh air. If symptoms persist, call a physician.

**Notes to Physician:** Treat symptomatically

### 5. FIRE FIGHTING MEASURES

**Flash Point °F(C°):** 182°F/83°C TCC

**Recommended Extinguishing Media:** Carbon dioxide, Dry chemical, Foam

**Special Fire-Fighting Procedures:** Wear suitable protective equipment. Use water spray to cool exposed containers.

**Hazardous Products of Combustion:** Oxides of carbon, Oxides of nitrogen

**Unusual Fire/Explosion Hazards:** Does not sustain combustion (ASTM D4206).

**Sensitivity to Static Discharge:** Sensitivity to static discharge is not expected

**Mechanical Sensitivity:** None reasonably foreseeable

**Product Name:** Orange Lightning Cleaner 946 ml

## 5. FIRE FIGHTING MEASURES

**Lower Explosive Limit:** Not determined  
**Upper Explosive Limit:** Not determined

## 6. ACCIDENTAL RELEASE MEASURES

Prevent from entering waterways or sewers. Contact the proper local authorities. Clean up spills thoroughly as residue is slippery.

## 7. HANDLING AND STORAGE

Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Store below 100°F. Do not freeze.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Eyes:** Safety glasses  
**Skin:** Chemical resistant gloves  
**Ventilation:** Use only in well ventilated area.  
**Respiratory Protection:** Not required under normal use

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Clear, colorless to slightly colored solution	<b>Odor:</b>	Citrus
<b>Boiling Point:</b>	~212°F/~100°C	<b>Freezing Point:</b>	~32°F/ ~0°C
<b>pH:</b>	~12.6	<b>Solubility in Water:</b>	Completely soluble
<b>Specific Gravity:</b>	~1.022 g/ml	<b>Vapor Pressure:</b>	~18 mm Hg
<b>Vapor Density (Air=1):</b>	>1	<b>% Volatile:</b>	~95
<b>VOC(Wt.%):</b>	<4%	<b>Evaporation Rate:</b>	<1 (butyl acetate = 1)

## 10. STABILITY AND REACTIVITY

**Chemical Stability:** Stable  
**Hazardous Polymerization:** Will not occur.  
**Incompatibilities:** Strong oxidizers  
**Conditions to Avoid:** Avoid temperatures greater than 100°F. Freezing conditions.  
**Hazardous Products of Combustion:** Oxides of carbon, Oxides of nitrogen

## 11. TOXICOLOGICAL INFORMATION

### Product Toxicity

<b>Eyes:</b> Draize Test: 27.3 out of 110	<b>Skin:</b> Draize Test 2.5 out of 10 LD50: >5,000 mg/kg (Rat)	<b>Inhalation LC50:</b> >200 g/L (Rat)	<b>Oral LD50:</b> >5,000 mg/kg (Rat)
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## 12. ECOLOGICAL INFORMATION

No data available

## 13. DISPOSAL CONSIDERATIONS

Disposal should be made in accordance with federal, state and local regulations

## 14. TRANSPORTATION INFORMATION

### U.S. Department of Transportation - DOT - 49 CFR (Ground)

<b>DOT Shipping Name:</b>	Not regulated
<b>Hazard Class:</b>	None
<b>UN/ID Number:</b>	None

### TDG(Transport of Dangerous Goods) Canada

<b>Proper Shipping Name:</b>	Not regulated
<b>Hazard Class:</b>	None
<b>UN/ID No:</b>	None

## 15. REGULATORY INFORMATION

**SARA 302 Extremely Hazardous Substances:** None  
**SARA 313 Toxic Chemicals:** 2-butoxyethanol (Glycol ethers)

**Product Name:** Orange Lightning Cleaner 946 ml

## 15. REGULATORY INFORMATION

**SARA (311, 312) Hazard Class:** Acute health hazard

**TSCA Inventory Status:** All components of this product are listed (or exempt) on the EPA TSCA inventory.

**California Proposition 65:** No California Prop 65 chemicals are known to be present.

**WHMIS Hazard Class:** Exempt

## 16. OTHER INFORMATION

### Estimated HMIS Classification:

HEALTH 1, FLAMMABILITY 0, PHYSICAL HAZARD 0, PERSONAL PROTECTION B  
HMIS is a registered trademark of the National Paint and Coatings Association

### Estimated NFPA Rating:

HEALTH 1, FLAMMABILITY 0, REACTIVITY 0  
(NFPA is a registered trademark of the National Fire Protection Association)

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