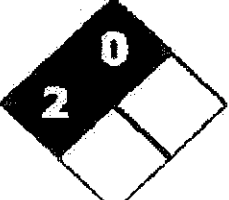



Material Safety Data Sheet

NFPA	HMIS	PPE	Transport Symbol						
	<table border="1"> <tr> <td>Health Hazard</td> <td>2*</td> </tr> <tr> <td>Fire Hazard</td> <td>0</td> </tr> <tr> <td>Reactivity</td> <td>0</td> </tr> </table>	Health Hazard	2*	Fire Hazard	0	Reactivity	0		
Health Hazard	2*								
Fire Hazard	0								
Reactivity	0								

Issuing Date 12-Feb-2009

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Revision Number 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Roll-Off

Recommended Use Degreaser.

Supplier Address

Bell Chemical Corp.
 1420 N.W. 2nd Ave. Suite 7
 Boca Raton, FL 33432
 Phone-561-391-8826
 FAX-561-391-3180
 Emergency Phone-561-389-0224

Roll-Off Gallon

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2. HAZARDS IDENTIFICATION

Emergency Overview

Severe eye irritation
 Irritating to skin
 May cause central nervous system depression
 May cause adverse effects on the bone marrow and blood-forming system
 May cause adverse kidney effects
 May cause adverse liver effects
 Contains a known or suspected reproductive toxin

Appearance Blue

Physical State Liquid.

Odor Slight

Potential Health Effects

Principle Routes of Exposure

Inhalation, Skin contact, Eye contact.

Acute Toxicity

Eyes

Severely irritating to eyes. May cause irreversible damage to eyes.

Skin

Irritating to skin.

Inhalation

May be harmful if inhaled.

Ingestion

May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic Effects

Avoid repeated exposure. Contains a known or suspected reproductive toxin.

Aggravated Medical Conditions

Central nervous system, Preexisting eye disorders, Blood disorders, Kidney disorders, Liver disorders, Overexposure may cause female and male reproductive disorder(s), Skin disorders, Respiratory disorders, Use of alcoholic beverages may enhance toxic effects.

Interactions with Other Chemicals

Use of alcoholic beverages may enhance toxic effects.

Environmental Hazard

See Section 12 for additional Ecological Information

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Water	558440-22-5	60 - 100
Surfactant	Mixture	1 - 5
Butoxyethanol	111-76-2	1 - 5
Sodium metasilicate	6834-92-0	0.1 - 1
Acid red 14	3567-69-9	< 0.1

4. FIRST AID MEASURES

Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

Skin Contact

Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician.

Inhalation

Move to fresh air. Remove from exposure, lie down. If symptoms persist, call a physician.

Ingestion

Rinse mouth. Drink plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician.

Notes to Physician

Treat symptomatically

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5. FIRE-FIGHTING MEASURES

Flammable Properties	Not flammable
Flash Point	Not applicable.
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment
Uniform Fire Code	<ul style="list-style-type: none"> • Irritant: Liquid • Other Health Hazard: Target Organ Toxin--Liquid
Hazardous Combustion Products	Carbon oxides
Explosion Data	
Sensitivity to Mechanical Impact	Not sensitive.
Sensitivity to Static Discharge	Not sensitive.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

NFPA **Health Hazard 2** **Flammability 0** **Stability 0** **Physical and Chemical Hazards -**

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Use personal protective equipment. Avoid contact with the skin and the eyes.
Environmental Precautions	Refer to protective measures listed in Sections 7 and 8
Methods for Containment	Dike to collect large liquid spills.
Methods for Cleaning Up	Dam up. Cover liquid spill with sand, earth or other noncombustible absorbent material. Take up mechanically and collect in suitable container for disposal. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Handling	Handle in accordance with good industrial hygiene and safety practice. Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe vapors or spray mist.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Butoxyethanol 111-78-2	TWA: 20 ppm	TWA: 240 mg/m ³ TWA: 50 ppm (vacated) TWA: 120 mg/m ³ (vacated) TWA: 25 ppm (vacated) S* S*	IDLH: 700 ppm TWA: 24 mg/m ³ TWA: 5 ppm

NIOSH IDLH: Immediately Dangerous to Life or Health

Engineering Measures Showers
 Eyewash stations
 Ventilation systems

Personal Protective Equipment
Eye/Face Protection Tightly fitting safety goggles.
Skin and Body Protection Long sleeved clothing. Protective gloves.
Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations.

Hygiene Measures Remove and wash contaminated clothing before re-use. Provide regular cleaning of equipment, work area and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Blue	Odor	Slight
Odor Threshold	No information available	Physical State	Liquid
pH	12	Autoignition Temperature	No information available
Fish Point	Not applicable.	Boiling Point/Range	99Â°C / 211Â°F
Decomposition Temperature	No information available	Explosion Limits	No information available
Melting Point/Range	No information available	Solubility	No information available
Flammability Limits in Air	No information available	Vapor Pressure	No data available
Water Solubility	Soluble in water	VOC Content	Not applicable
Evaporation Rate	No information available		
Vapor Density	No data available		
Partition Coefficient: n-octanol/water			

10. STABILITY AND REACTIVITY

Stability Stable under recommended storage conditions.

Incompatible Products Acids. Acid chlorides. Strong oxidizing agents. Strong reducing agents.

Conditions to Avoid Extremes of temperature and direct sunlight.

Hazardous Decomposition Products None known based on information supplied.

Hazardous Polymerization Hazardous polymerization does not occur

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

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Product Information May be harmful by inhalation, ingestion, or skin absorption.

Irritation May cause eye/skin irritation (based on pH). Severe eye irritant.

LD50 Oral VALUE (mg/kg) >13000 mg/kg (rat) estimated

LD50 Dermal VALUE >5000 mg/kg (rabbit) estimated

LC50 Inhalation (VAPOR) VALUE >7500 ppm (vapor) estimated

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Butoxyethanol	470 mg/kg (Rat)	220 mg/kg (Rabbit) 2270 mg/kg (Rat)	2.21 mg/L (Rat) 4 h 450 ppm (Rat) 4 h
Sodium metasilicate	600 mg/kg (Rat)	-	-
Surfactant	-	-	-
Water	-	-	-
Acid red 14	10 g/kg (Rat)	-	-

Chronic Toxicity

Chronic Toxicity Avoid repeated exposure. Contains a known or suspected reproductive toxin.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Butoxyethanol	A3			

ACGIH: (American Conference of Governmental Industrial Hygienists)
A3 - Animal Carcinogen

Target Organ Effects Blood, Central nervous system (CNS), Eyes, Hematopoietic System, Kidney, Liver, Respiratory system, Skin.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Large amounts will affect pH and harm aquatic organisms.

. Ecotoxicity effects of component substances.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Butoxyethanol		LC50= 2950 mg/L. Lepomis macrochirus 96 h		LC50 1698 - 1940 mg/L. 24 h EC50 = 1720 mg/L. 24 h
Sodium metasilicate		LC50= 210 mg/L. Brachydanio rerio 96 h		EC50 = 218 mg/L. 96 h

Mobility Will likely be mobile in the environment due to its water solubility.

Chemical Name	Log Pow
Butoxyethanol	25

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13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods	This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements
Contaminated Packaging	Dispose of in accordance with local regulations
California Hazardous Waste Codes	561

14. TRANSPORT INFORMATION

<u>DOT</u>	Not regulated
<u>TDG</u>	Not regulated
<u>MEX</u>	Not regulated
<u>ICAO</u>	Not regulated
<u>IATA</u>	Not regulated
<u>IMDG/IMO</u>	Not regulated
<u>RID</u>	Not regulated
<u>ADR</u>	Not regulated
<u>ADN</u>	Not regulated

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WHMIS Hazard Class
D2B Toxic materials

**16. OTHER INFORMATION**

Prepared By Product Stewardship
23 British American Blvd.
Latham, NY 12110
1-800-572-6501

Issuing Date 12-Feb-2009

Revision Date 12-Feb-2009

Revision Note No information available

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet