

Revision Date 27-Mar-2006

**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**Product code** DA7850  
**Product name** Boomerang Foaming Coil & Fin Cleaner  
**Recommended Use** Cleaner  
**Supplier** Drummond American Corporation  
 600 Corporate Woods Parkway  
 Vernon Hills, IL 60061  
 (847) 913-9313  
**Emergency telephone number** (888) 426-4851

**2. HAZARDS IDENTIFICATION**

**Emergency Overview**

Flammable. Vapors may be irritating to eyes, nose, throat, and lungs.

**Color** Yellow

**Odor** Pleasant

**Form** Aerosol

**Aggravated Medical Conditions** Pre-existing skin, eye, or respiratory conditions may be aggravated by exposure to this product. Pre-existing diseases of the central nervous system. Pre-existing kidney disorders. Impaired blood functions may be aggravated by use of this product.

**Principal Routes of Exposure** Eyes. Skin. Inhalation.

**Potential health effects**

**Eyes** Contact with eyes may cause irritation.

**Skin** May cause the following effects: . Mild irritation. Prolonged skin contact may cause skin irritation.

**Inhalation** May cause irritation of respiratory tract. Nasal irritation. Shortness of breath. Dizziness. Headaches. Loss of coordination.

**Ingestion** No hazard under normal industrial and institutional use. Swallowing substance may cause the following effects:. Nausea. Vomiting. Stomach distress. Loss of coordination.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS-No	Weight %
2-Butoxyethanol	111-76-2	1-10
EDTA	64-02-8	1-10
Propane/Isobutane/N-Butane	68476-86-8	1-10
Propane	74-98-6	48-55
N-Butane	106-97-8	45-49

#### 4. FIRST AID MEASURES

<b>Eye contact</b>	Flush with plenty of water for at least 15 minutes. Seek medical attention immediately.
<b>Skin contact</b>	Flush area with water for 15 minutes. Seek medical attention immediately.
<b>Ingestion</b>	Rinse mouth. Drink 1 or 2 glasses of water. Do not induce vomiting without medical advice. Seek medical attention immediately. Never give anything by mouth to an unconscious person.
<b>Inhalation</b>	Move to fresh air. If breathing is difficult, give oxygen. Administer artificial respiration if not breathing. Seek medical attention.

#### 5. FIRE FIGHTING MEASURES

<b>Flash point °C</b>	< -17
<b>Flash point °F</b>	< 0
<b>Method</b>	Closed cup
<b>Autoignition temperature °C</b>	Not Applicable
<b>Autoignition temperature °F</b>	Not Applicable
<b>Flammability Limits (% in Air)</b>	
Upper	9.5
Lower	1.9
<b>Specific Information for Aerosol Products</b>	
Flame extension	< 18"
Flashback	None

#### Suitable extinguishing media

Carbon dioxide. Water spray. Foam. Dry chemical.

#### Special protective equipment for firefighters

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

#### Special Fire-Fighting Procedures

Water should be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat. Keep containers cool. Use shielding to protect against bursting or venting containers.

#### Sensitivity to shock

No information available.

#### Sensitivity to static discharge

No information available.

#### 6. ACCIDENTAL RELEASE MEASURES

**Methods for cleaning up**

Eliminate all sources of ignition. Ventilate area to maintain exposure below permissible exposure limits. Soak up with inert absorbent material. Pick up and transfer to properly labelled containers.

## 7. HANDLING AND STORAGE

**Handling**

Ensure adequate ventilation. Avoid breathing vapors. Keep away from open flames, hot surfaces and sources of ignition. Do not puncture or incinerate.

**Storage**

Keep away from direct sunlight. Store in temperatures below 120 degrees F. Follow all label directions.

**NFPA Storage Code**

Store as Level 1 Aerosol (NFPA 30B)

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure limits**

Chemical Name	OSHA PEL (TWA)	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
N-Butane	-	-	1000 ppm 1000 ppm listed under aliphatic hydrocarbon gases alkane C1-C4	-
Propane	1000 ppm 1800 mg/m <sup>3</sup>	-	1000 ppm 1000 ppm listed under aliphatic hydrocarbon gases alkane C1-C4	-
2-Butoxyethanol	240 mg/m <sup>3</sup> 50 ppm	-	20 ppm	-
EDTA	-	-	-	-
Propane/Isobutane/N-Butane	-	-	-	N/D

**Ventilation and Environmental Controls**

Normal ventilation is adequate. Mechanical: optional.

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice.

**Personal protective equipment****Respiratory protection**

None required if adequate ventilation is provided. Use NIOSH approved respirator if TLV limit is exceeded.

**Hand Protection**

Chemical resistant gloves.

**Eye protection**

Safety glasses.

**Skin and body protection**

Impervious clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form</b>	Aerosol	<b>Color</b>	Yellow
<b>Odor</b>	Pleasant	<b>Odor Threshold</b>	Not Applicable
<b>pH</b>	12.86	<b>Specific Gravity</b>	0.9785
<b>Vapor pressure</b>	3448mmHg	<b>Vapor density</b>	Not Applicable
<b>Evaporation Rate</b>	Not Applicable	<b>VOC Content</b>	7.85 %
<b>Water solubility</b>	Moderately soluble	<b>Partition Coefficient (n-octanol/water)</b>	Not Applicable
<b>Boiling point/range °C</b>	Not Applicable	<b>Boiling point/range °F</b>	Not Applicable
<b>Melting point/range °C</b>	Not Applicable	<b>Melting point/range °F</b>	Not Applicable
<b>Flash point °C</b>	< -17	<b>Flash point °F</b>	< 0

## 10. STABILITY AND REACTIVITY

**Stability**

Stable.

**Conditions to avoid**

Avoid direct sunlight. Avoid heat, sparks, and other sources of ignition. Dropping of containers may cause bursting. Do not store above 120 degrees F.

**Incompatibility**

Strong oxidizing agents.

**Hazardous Decomposition Products**

Carbon monoxide. Hydrocarbons.

**Polymerization**

No information available.

## 11. TOXICOLOGICAL INFORMATION

**Component Information**

Chemical Name	LD50 (oral, rat)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat)
<i>N-Butane</i> 106-97-8	-	-	658 g/m <sup>3</sup>
<i>Propane</i> 74-98-6	-	658 mg/kg	-
<i>2-Butoxyethanol</i> 111-76-2	470 mg/kg	220 mg/kg 2270 mg/kg	2.21 mg/L 450 ppm
<i>EDTA</i> 64-02-8	1658 mg/kg	-	-
<i>Propane/Isobutane/N-Butane</i> 68476-86-8	-	-	-

**Synergistic Products**

None known

**Potential health effects****Sensitization**

None known

**Chronic toxicity**

See Section 2 .

**Mutagenic effects**

None known

**Teratogenic effects**

None known

**Reproductive toxicity**

None known

**Target Organ Effects**

None Known

**Carcinogenic effects**

See table below

Chemical Name	ACGIH OEL - Carcinogens	IARC	NTP - Known Carcinogens	NTP - Suspected Human Carcinogens	OSHA RTK Carcinogens
N-Butane	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Propane	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
2-Butoxyethanol	A3 - Confirmed animal carcinogen with unknown relevance to humans	Not Listed	Not Listed	Not Listed	Not Listed
EDTA	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Propane/Isobutane/N-Butane	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

## 12. ECOLOGICAL INFORMATION

2-Butoxyethanol

**Water Flea Data***water flea LC50=1720 mg/L (24 h)*

## 13. DISPOSAL CONSIDERATIONS

**Waste from residues / unused products**

Dispose in accordance with federal, state, and local regulations. Do not puncture or incinerate. When contents are depleted, depress button until all gas is expelled.

## 14. TRANSPORT INFORMATION

**DOT**

UN1950 Aerosols, flammable (Propane/n-Butane), Class 2.1

*Exception:* (Compressed Gas not more than 1.0L) Consumer Commodity ORM-D

**TDG**

UN1950 Aerosols, flammable (Propane/n-Butane) Class 2.1

**IMDG/IMO**

UN1950 AEROSOLS (Propane/n-Butane) Class 2.1

**IATA**

UN1950 Aerosols, flammable (Propane/n-Butane), Class 2.1

**MEX**

UN1950 Aerosols (Propane/n-Butane), 2.1

**15. REGULATORY INFORMATION**

Chemical Name	US EPA SARA 313 Emission Reporting
2-Butoxyethanol	Listed

Chemical Name	New Jersey - RTK	Pennsylvania - RTK	California Prop. 65
N-Butane	Not Listed	Listed	Not Listed
Propane	Listed	Listed	Not Listed
2-Butoxyethanol	Listed	Listed	Not Listed
EDTA	Not Listed	Not Listed	Not Listed
Propane/Isobutane/N-Butane	Not Listed	Not Listed	Not Listed

Chemical Name	EINECS	DSL	NDSL	TSCA
N-Butane	X	X	-	X
	X			
Propane	X	X	-	X
2-Butoxyethanol	X	X	-	X
EDTA	X	X	-	X
Propane/Isobutane/N-Butane	X	X	-	X

**CPRC**

This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all of the information required by the Controlled Product Regulations

**16. OTHER INFORMATION**

<b>NFPA</b>		<b>HMIS</b>	
<b>Health</b>	2	<b>Health</b>	2
<b>Flammability</b>	2	<b>Flammability</b>	2
<b>Reactivity</b>	0	<b>Physical Hazard</b>	0

**Prepared By**

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The information accumulated herein is believed to be accurate, but is not warranted to be, whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.