

**TWISTER POWER Cleaner/Degreaser**

Version Number: 1

Preparation date: 2005-08-28

1. PRODUCT AND COMPANY IDENTIFICATION	
<b>Product name:</b>	TWISTER POWER Cleaner/Degreaser
<b>MSDS #:</b>	MS0600080
<b>Product code:</b>	U22645, U22646, U22647, U22648
<b>Recommended use:</b>	Industrial .
<b>Manufacturer, importer, supplier:</b> Unisource Worldwide, Inc. 6600 Governors Lake Parkway Norcross, GA 30071 Phone: 770-447-9000 MSDS Internet Address: www.unisourcelink.com	
<b>Emergency telephone number:</b>	1-800-535-5053

2. HAZARDS IDENTIFICATION	
<b>EMERGENCY OVERVIEW</b>	
<ul style="list-style-type: none"> <li>• WARNING</li> <li>• CAUSES EYE AND SKIN IRRITATION</li> <li>• MAY BE HARMFUL IF SWALLOWED</li> </ul>	
<b>Principle routes of exposure:</b>	<ul style="list-style-type: none"> <li>• Eyes</li> <li>• Skin</li> <li>• Inhalation</li> </ul>
<b>Inhalation:</b>	• May be irritating to nose, throat, and respiratory tract
<b>Ingestion:</b>	• May be irritating to mouth, throat and stomach
<b>Skin contact:</b>	• Severe skin irritation
<b>Eye contact:</b>	• Severe eye irritation

**3. COMPOSITION/INFORMATION ON INGREDIENTS**
**HAZARDOUS COMPONENTS**

Ingredient	CAS #	Weight %
Sodium hydroxide	1310-73-2	0.1 - 1.5%
Sodium silicate	1344-09-8	1 - 5 %
2-butoxyethanol	111-76-2	1 - 5 %
Sodium dodecylbenzene sulfonate	25155-30-0	1 - 5 %
Ethyl alcohol	64-17-5	0.1 - 1.5%

**HAZARDOUS COMPONENTS**

Ingredient	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium hydroxide	140 mg/kg (rat)	Not available	Not available
Sodium silicate	1960 mg/kg (rat)	4640 mg/kg (rabbit)	Not available
2-butoxyethanol	470 mg/kg (rat)	220 mg/kg (rabbit)	450 ppm (rat)
Sodium dodecylbenzene sulfonate	438 mg/kg (rat)	Not available	Not available
Ethyl alcohol	7060 mg/kg (rat)	Not available	20 g/kg/10H (rat)

**4. FIRST AID MEASURES**

<b>Eye contact:</b>	<ul style="list-style-type: none"> <li>• Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open</li> <li>• Get medical attention</li> </ul>
<b>Skin contact:</b>	<ul style="list-style-type: none"> <li>• Flush immediately with plenty of water for at least 15 minutes</li> <li>• Get medical attention</li> </ul>
<b>Inhalation:</b>	<ul style="list-style-type: none"> <li>• If breathing is affected, remove to fresh air</li> <li>• Get medical attention</li> </ul>

<b>Ingestion:</b>	<ul style="list-style-type: none"> <li>• Immediately drink one cupful of water or milk</li> <li>• Never give anything by mouth to an unconscious person</li> <li>• Get medical attention</li> </ul>
<b>Aggravated Medical Conditions:</b>	<ul style="list-style-type: none"> <li>• Persons with pre-existing skin disorders may be more susceptible to irritating effects</li> </ul>

### 5. FIRE-FIGHTING MEASURES

<b>Suitable extinguishing media:</b>	<ul style="list-style-type: none"> <li>• Use dry chemical, CO2, water spray or "alcohol" foam</li> </ul>
<b>Specific hazards:</b>	<ul style="list-style-type: none"> <li>• Not applicable</li> </ul>
<b>Unusual hazards:</b>	<ul style="list-style-type: none"> <li>• None known</li> </ul>
<b>Specific methods:</b>	<ul style="list-style-type: none"> <li>• No special methods required</li> </ul>

#### 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

#### Extinguishing media which must not be used for safety reasons:

No information available

### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions:</b>	<ul style="list-style-type: none"> <li>• Put on appropriate personal protective equipment (see Section 8.)</li> </ul>
<b>Environmental precautions and clean-up methods:</b>	<ul style="list-style-type: none"> <li>• Clean-up methods - large spillage</li> <li>• Prevent product from entering drains</li> <li>• Soak up with inert absorbent material</li> <li>• Sweep up and shovel into suitable containers for disposal</li> <li>• Use a water rinse for final clean-up</li> </ul>

### 7. HANDLING AND STORAGE

<b>Handling:</b>	<ul style="list-style-type: none"> <li>• Avoid contact with skin, eyes and clothing</li> <li>• Wash thoroughly after handling</li> </ul>
FOR COMMERCIAL AND INDUSTRIAL USE ONLY	
<b>Storage:</b>	<ul style="list-style-type: none"> <li>• Protect from freezing</li> <li>• Keep tightly closed in a dry, cool and well-ventilated place</li> <li>• Keep out of the reach of children</li> </ul>

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Engineering measures to reduce exposure:

- No special ventilation requirements
- General room ventilation is adequate

#### Personal Protective Equipment

<b>Eye protection:</b>	<ul style="list-style-type: none"> <li>• Safety glasses with side-shields</li> </ul>
<b>Hand protection:</b>	<ul style="list-style-type: none"> <li>• Chemical resistant gloves</li> <li>• Includes</li> <li>• Neoprene gloves</li> </ul>
<b>Skin and body protection:</b>	<ul style="list-style-type: none"> <li>• No special requirements under normal use conditions</li> <li>• If major exposure is possible, wear suitable protective clothing and footwear</li> </ul>
<b>Respiratory protection:</b>	<ul style="list-style-type: none"> <li>• No special requirements under normal use conditions</li> </ul>
<b>Hygiene measures:</b>	<ul style="list-style-type: none"> <li>• Handle in accordance with good industrial hygiene and safety practice</li> </ul>



Ingredient	CAS #	ACGIH	OSHA	Mexico
Sodium hydroxide	1310-73-2	2 mg/m <sup>3</sup> (Ceiling)	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup> (Ceiling)
2-butoxyethanol	111-76-2	20 ppm (TWA)	240 mg/m <sup>3</sup> 50 ppm Can be absorbed through the skin.	360 mg/m <sup>3</sup> (STEL) 120 mg/m <sup>3</sup> (TWA)
Ethyl alcohol	64-17-5	1000 ppm (TWA)	1900 mg/m <sup>3</sup> 1000 ppm	1900 mg/m <sup>3</sup> (TWA)

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid	Appearance:	Aqueous solution
Color:	Clear Green	Odor:	Mild
Specific gravity:	1.035	pH:	12.5
Dilution pH:	No information available	Density:	8.62
Bulk density:	No information available	Vapor density:	No information available
Evaporation rate:	No information available	Solubility:	Soluble
VOC:	3.15%	Viscosity:	No information available
Solubility in other solvents:	No information available		
Partition coefficient (n-octanol/water):	No information available		
Boiling point/range:	Not determined		
Melting point/range:	Not determined		
Flash point:	>200 (°F)>93.3 (°C)		
Decomposition temperature:	Not determined		
Autoignition temperature:	No information available		

### 10. STABILITY AND REACTIVITY

Stability:	<ul style="list-style-type: none"> <li>The product is stable</li> </ul>
Polymerization:	<ul style="list-style-type: none"> <li>Hazardous polymerisation does not occur</li> </ul>
Hazardous decomposition products:	<ul style="list-style-type: none"> <li>None reasonably foreseeable</li> </ul>

### 11. TOXICOLOGICAL INFORMATION

Acute toxicity	<ul style="list-style-type: none"> <li>Oral</li> <li>LD50 Estimated to be between 2000 - 5000 mg/kg</li> </ul>
Component Information:	<ul style="list-style-type: none"> <li>See Section 3</li> </ul>
Chronic toxicity:	<ul style="list-style-type: none"> <li>None known</li> </ul>
<b>Specific effects</b>	
Carcinogenic effects:	<ul style="list-style-type: none"> <li>None known</li> </ul>
Mutagenic effects:	<ul style="list-style-type: none"> <li>None known</li> </ul>
Reproductive toxicity:	<ul style="list-style-type: none"> <li>None known</li> </ul>
Target organ effects:	<ul style="list-style-type: none"> <li>None known</li> </ul>

#### HAZARDOUS COMPONENTS

Ingredient	CAS #	NTP	IARC	OSHA
Ethyl alcohol	64-17-5	Listed.		

### 12. ECOLOGICAL INFORMATION

Environmental Information:	<ul style="list-style-type: none"> <li>no data available</li> </ul>
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### 13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:	<ul style="list-style-type: none"> <li>Undiluted product is regulated under environmental and transportation laws as a corrosive waste</li> </ul>
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### 14. TRANSPORT INFORMATION

DOT/TDG:	<ul style="list-style-type: none"> <li>Please refer to the Bill of Lading/receiving documents for up to date shipping information</li> </ul>
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## 15. REGULATORY INFORMATION

### International Inventories

All components of this product are listed on the following inventories: U.S.A. (TSCA).

### U.S. Regulations

**California Proposition 65:** This product is not subject to the reporting requirements under California's Proposition 65

### SARA 311/312 Hazard Categories

Immediate:	Y
Delayed:	N
Fire:	N
Reactivity:	N
Sudden Release of Pressure:	N

### Canada

Ingredient	CAS #	NPRI
2-butoxyethanol	111-76-2	Listed

WHMIS hazard class: Not for sale in Canada .

### STATE RIGHT TO KNOW

Ingredient	CAS #	NJRTK:	MARTK:	PARTK:	RIRTK:	ILRTK:	CTRTK:
Sodium hydroxide	1310-73-2	Listed	Listed	Listed	Listed	Listed	Listed
Water	7732-18-5	-	-	-	-	-	-
2-butoxyethanol	111-76-2	Listed	Listed	Listed	Listed	Listed	-
Sodium silicate	1344-09-8	-	-	-	-	-	-
Ethyl alcohol	64-17-5	Listed	Listed	Listed	Listed	Listed	Listed
Sodium dodecylbenzene sulfonate	25155-30-0	Listed	Listed	Listed	-	Listed	Listed

### CERCLA / SARA

Ingredient	CAS #	Weight %	CERCLA/SARA RQ (lbs)	Section 302 TPQ (lbs)	Section 313
Sodium hydroxide	1310-73-2	0.1 - 1.5%	1000		
2-butoxyethanol	111-76-2	1 - 5 %			Listed.
Ethyl alcohol	64-17-5	0.1 - 1.5%	100		
Sodium dodecylbenzene sulfonate	25155-30-0	1 - 5 %	1000		

## 16. OTHER INFORMATION

HMIS	Health	2	Fire Hazard	0	Reactivity	0
NFPA	Health:	2	Flammability:	0	Instability:	0

Reason for revision: Not applicable

Prepared by: NAPRAC

Additional advice: None

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