

WHIRLWIND Cleaner & Degreaser

Version Number: 2

Preparation date: 2009-03-30

1. PRODUCT AND COMPANY IDENTIFICATION

Product name:	WHIRLWIND Cleaner & Degreaser
MSDS #:	MS0600082
Product Code:	U22635, U22637, U22638, U22636
Recommended use:	Industrial/Institutional.
Manufacturer, importer, supplier: Unisource Worldwide, Inc. 6600 Governors Lake Parkway Norcross, GA 30071 Phone: 770-447-9000 MSDS Internet Address: www.unisourcelink.com	
Emergency telephone number:	1-800-535-5053

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW	
<ul style="list-style-type: none"> • DANGER • CORROSIVE • CAUSES EYE AND SKIN BURNS • HARMFUL OR FATAL IF SWALLOWED • NEVER USE OR MIX WITH ACIDS, AMMONIA OR ANY OTHER CHEMICAL 	
Principle routes of exposure:	<ul style="list-style-type: none"> • Eye contact • Skin contact • Inhalation • Ingestion
Eye contact:	<ul style="list-style-type: none"> • Corrosive • Causes permanent eye damage, including blindness
Skin contact:	<ul style="list-style-type: none"> • Corrosive • May cause permanent damage
Inhalation:	<ul style="list-style-type: none"> • May cause irritation and corrosive effects to nose, throat and respiratory tract
Ingestion:	<ul style="list-style-type: none"> • Corrosive • Causes burns to mouth, throat and stomach

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredients

Ingredient(s)	CAS #	Weight %
2-butoxyethanol	111-76-2	5 - 10%
Ethyl alcohol	64-17-5	0.1 - 1.5%
Sodium hydroxide	1310-73-2	1 - 5 %

Hazardous ingredients

Ingredient(s)	LD50 Oral - Rat (mg/kg)	LD50 Dermal - Rabbit	LC50 Inhalation - Rat
2-butoxyethanol	470	220 mg/kg	2.21 mg/L (4 h); 450 ppm (4 h)
Ethyl alcohol	7060	Not available	Not available
Sodium hydroxide	140	1350 mg/kg	Not available

4. FIRST AID MEASURES

Eye contact:	<ul style="list-style-type: none"> Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open Get medical attention immediately
Skin contact:	<ul style="list-style-type: none"> Flush immediately with plenty of water for at least 15 minutes Get medical attention immediately
Inhalation:	<ul style="list-style-type: none"> If breathing is affected, remove to fresh air Get medical attention immediately
Ingestion:	<ul style="list-style-type: none"> Do not induce vomiting Immediately drink one cupful of water or milk Never give anything by mouth to an unconscious person Get medical attention immediately
Aggravated Medical Conditions:	<ul style="list-style-type: none"> Individuals with chronic respiratory disorders such as asthma, chronic bronchitis, emphysema, etc., may be more susceptible to irritating effects

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	<ul style="list-style-type: none"> The product is not flammable Extinguish fire using agent suitable for surrounding fire
Specific hazards:	<ul style="list-style-type: none"> Not applicable
Unusual hazards:	<ul style="list-style-type: none"> Corrosive material (See sections 8 and 10)
Specific methods:	<ul style="list-style-type: none"> No special methods required
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

Personal precautions:	<ul style="list-style-type: none"> Put on appropriate personal protective equipment (see Section 8.)
Environmental precautions and clean-up methods:	<ul style="list-style-type: none"> Use appropriate containment to avoid environmental contamination Soak up with inert absorbent material Shovel into suitable container for disposal

7. HANDLING AND STORAGE

Handling:	<ul style="list-style-type: none"> Avoid contact with skin, eyes and clothing Do not taste or swallow Avoid breathing vapors or mists Use only with adequate ventilation Remove and wash contaminated clothing and footwear before re-use Wash thoroughly after handling Product residue may remain on/in empty containers All precautions for handling the product must be used in handling the empty container and residue
FOR COMMERCIAL AND INDUSTRIAL USE ONLY.	
Storage:	<ul style="list-style-type: none"> Keep tightly closed in a dry, cool and well-ventilated place Protect from freezing Keep out of the reach of children

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures to reduce exposure:

- Good general ventilation should be sufficient to control airborne levels
- Respiratory protection is not required if good ventilation is maintained

Personal Protective Equipment

Eye protection:	<ul style="list-style-type: none"> • Chemical-splash goggles
Hand protection:	<ul style="list-style-type: none"> • Chemical-resistant gloves • Includes neoprene gloves
Skin and body protection:	<ul style="list-style-type: none"> • If major exposure is possible, wear suitable protective clothing and footwear
Respiratory protection:	<ul style="list-style-type: none"> • In case of insufficient ventilation wear suitable respiratory equipment • A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use
Hygiene measures:	<ul style="list-style-type: none"> • Keep away from food, drink and animal feeding stuffs • Handle in accordance with good industrial hygiene and safety practice

Personal protective equipment



Ingredient(s)	CAS #	ACGIH	OSHA	Mexico
2-butoxyethanol	111-76-2	20 ppm (TWA)	Skin 240 mg/m ³ (TWA) 50 ppm (TWA)	75 ppm (STEL) 360 mg/m ³ (STEL) 26 ppm (TWA) 120 mg/m ³ (TWA)
Ethyl alcohol	64-17-5	1000 ppm (TWA)	1900 mg/m ³ (TWA) 1000 ppm (TWA)	1000 ppm (TWA) 1900 mg/m ³ (TWA)
Sodium hydroxide	1310-73-2	2 mg/m ³ (Ceiling)	2 mg/m ³ (TWA)	2 mg/m ³ (Ceiling)

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid	Appearance:	Aqueous solution
Specific gravity:	1.05	pH:	10.5
Dilution pH:	No information available.	Elemental Phosphorus:	0% by wt.
Density:	8.75	Bulk density:	No information available
Vapor density:	No information available	Evaporation Rate	No information available
Solubility:	Completely Soluble	VOC:	0% *
Viscosity:	No information available		
Solubility in other solvents:			No information available
Partition coefficient (n-octanol/water):			No information available
Color:			Red Orange
Odor:			Aromatic
Boiling point/range:			Not determined
Melting point/range:			Not determined
Flash point:			>200°F >93.4°C
Decomposition temperature:			Not determined
Autoignition temperature:			No information available

* - Title 17, California Code of Regulations, Division 3, Chapter 1, Subchapter 8.5, Article 2, Consumer Products, Sections 94508

10. STABILITY AND REACTIVITY

Stability:	<ul style="list-style-type: none"> The product is stable
Polymerization:	<ul style="list-style-type: none"> Hazardous polymerization does not occur
Hazardous decomposition products:	<ul style="list-style-type: none"> None reasonably foreseeable.
Materials to avoid:	<ul style="list-style-type: none"> Strong oxidising agents Strong exothermic reaction with acids

11. TOXICOLOGICAL INFORMATION

Acute toxicity:	Corrosive
Component Information:	<ul style="list-style-type: none"> See Section 3
Chronic toxicity:	<ul style="list-style-type: none"> None known
Specific effects	
Carcinogenic effects:	<ul style="list-style-type: none"> None known
Mutagenic effects:	<ul style="list-style-type: none"> None known
Reproductive toxicity:	<ul style="list-style-type: none"> None known
Target organ effects:	<ul style="list-style-type: none"> None known

Hazardous ingredients

Ingredient(s)	CAS #	NTP	IARC	OSHA
2-butoxyethanol	111-76-2		3	
Ethyl alcohol	64-17-5	X		X

12. ECOLOGICAL INFORMATION

Environmental Information:	<ul style="list-style-type: none"> No data available
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13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:	<ul style="list-style-type: none"> Undiluted product is regulated under environmental and transportation laws as a corrosive waste Dispose of in compliance with all Federal, state, provincial, and local laws and regulations. Incineration is the preferred method. Relatively small quantities of product may be neutralized as stated above, and if in accordance with local laws and the operators of the local sewage treatment plant, the neutralized material may be discharged into the sewer system
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14. TRANSPORT INFORMATION

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

Canada

WHMIS hazard class:	Not for sale in Canada.
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STATE RIGHT TO KNOW

Ingredient(s)	CAS #	NJRTK:	MARTK:	PARTK:	RIRTK:
Sodium xylene sulfonate	1300-72-7	-	-	-	-
Water	7732-18-5	-	-	-	-
Linear alcohol alkoxyate	68987-81-5	-	-	-	-
Sodium lauryl ether sulfate	9004-82-4	-	-	-	-
2-butoxyethanol	111-76-2	X	X	X	X
Ethyl alcohol	64-17-5	X	X	X	X
Sodium hydroxide	1310-73-2	X	X	X	X

CERCLA/ SARA

Ingredient(s)	CAS #	Weight %	CERCLA/SARA RQ (lbs)	Section 302 TPQ (lbs)	Section 313
2-butoxyethanol	111-76-2	5 - 10%			X
Sodium hydroxide	1310-73-2	1 - 5 %	1000		

Ingredient(s)	CAA HAP	CAA ODS	CWA Priority Pollutants
2-butoxyethanol	X		

16. OTHER INFORMATION

HMIS	Health	3	Fire Hazard	0	Reactivity	0
NFPA	Health:	3	Flammability:	0	Instability:	0

Reason for revision: Not applicable

Prepared by: NAPRAC

Additional advice: None

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