

MATERIAL SAFETY DATA SHEET

08/14/08

Product Name: TWIN CLEANER 463

HMIS Code: 200B

Manufacturer: TWIN SPECIALTIES CORP.
Address: 15 East Ridge Pike
Conshohoken, PA 19428Telephone No: (610) 834-7900
24 Hour Emergency (800) 255-3924-----
Hazardous Ingredients

Chemical Name	Exposure Limit	CAS No.	% by wt
SODIUM HYDROXIDE	2 MG/M3 CEILING	1310-73-2	< 5
NONIONIC SURFACTANT	NOT ESTABLISHED	PROPRIETARY	< 5
ETHYLENE GLYCOL BUTYL ETHER	25 ppm skin ACGIH	111-76-2	10-15

Physical and Chemical Characteristics

Boiling Point:	212 °F	Specific Gravity:	1.03
Vapor Pressure:	Not established	Vapor Density:	>1 (Air = 1)
Solubility:	Complete	pH:	13.10
Appearance:	Clear liquid, Mild solvent odor		

Fire and Explosion Data

Flash Point: None to Boiling Auto-ignition Temperature: none

Explosion Limits: (upper) none (lower) none

Extinguisher media:
Suitable for nearby combustible materialsSpecial Fire Fighting Procedures:
NoneUnusual Fire or Explosion Hazards:
None

Health Hazards

Skin Contact:

Contact with concentrated product can cause severe irritation or burns if not treated promptly.

Eye Contact:

Causes severe irritation and redness of the eyes. May cause permanent injury if not treated immediately.

Inhalation:

Inhalation is unlikely due to low vapor pressure. Inhalation of mists may cause respiratory irritation.

Ingestion:

Product has a low order of oral toxicity. Ingestion of concentrated product may cause digestive irritation and nausea.

Other Chronic Effects

Overexposure to ethylene glycol butyl ether has resulted in liver and kidney damage in laboratory animals.

Carcinogenicity: This product does not contain any materials known or suspected to be a carcinogen by NTP, IARC, or OSHA.

First Aid Procedures

Skin Contact:

Wash thoroughly with large amounts of cool water and remove contaminated clothing. Seek medical attention if irritation persists.

Eye Contact:

Flush eyes with clean water for 15 minutes. Seek medical attention if irritation persists.

Inhalation:

Move victim from exposure to fresh air. Seek medical attention if symptoms persist.

Ingestion:

Do not induce vomiting unless directed by a physician. Dilute with several glasses of water or milk. Never give anything to drink to an unconscious person. Seek medical attention.

Physical Hazards

Stability: Stable Conditions to Avoid: None known

Incompatibility

Avoid contact with strong acids or oxidizers such as bleach, chlorine sodium or calcium hypochlorite.

Hazardous Decomposition Products:

None Known

Hazardous Polymerization: Will not occur

Section 7 Special Precautions and Spill or Leak Procedures

Precautions for Handling and Storage

Full or empty drums should be stored in a cool, dry well ventilated area. Keep this and all other chemical materials in closed, properly labeled containers.

Spill or Leak Procedures

Absorb with sand or other suitable material and shovel into an appropriate container. Dike large spills to avoid discharge directly into fresh water systems. Small spills can be neutralized and flushed with water into most municipal systems.

Waste Disposal Method:

In accordance with local state and federal regulations

Section 8 Special Protection and Control Measures

Respiratory Protection

Not generally required when used as directed. Avoid breathing vapors from concentrated product.

Ventilation

Local mechanical exhaust or room ventilation is normally sufficient. Store concentrated product in closed containers.

Protective Gloves: Rubber

Eye Protection: Safety Glasses / Goggles

Other Protective Clothing or Equipment

Eye wash and safety shower should be present in the work area whenever chemicals are in use.

Special Work and Hygienic Practices

Observe good personal hygiene. Wash thoroughly after using all chemicals. Keep out of reach of children

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Title R & D Manager

Date August 14, 2008

Signature

Sean G Nichols