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Material Safety Data Sheet

SPI# 17023-AB/#17023-AA Microshield™ Remover

Section 01 Identification

Date Effective..... January 8, 2009
 (most recent revision)

Chemical Name/Synonyms. **Microshield Remover**

Chemical Family..... **Organic solvents, primarily ketones**

Emergencies Contacting CHEMTREC 24 Hour Emergency
 Use Only #'s..... Worldwide phone : 1-(703)-527-3887
 Worldwide FAX : 1-(703)-741-6090
 Toll-free phone : 1-(800)-424-9300 USA only

Product or Trade Name... **Microshield Remover**

CAS #..... **None assigned to formulated composition**
 (see below)

Chemical Formula..... **Chemical mixture of ketones and toluene**



Hazardous Material Information System USA	Health	3	National Fire Protection Association USA	
	Fire Hazard	3		
	Reactivity	0		
	Personal Protection			

Flammability classification:
 HMIS rating:
 Health Hazard: 3

Fire Hazard: 3
Reactivity: 0

Section 2 Composition

See below, Section 3.

Section 3: Hazard Identification

Chemical Names	CAS #	% Wt	TLV-TWA	PEL	Sec.313
Methyl ethyl ketone	78-93-3	15-15	200 ppm	200 ppm	Yes
Toluene	108-88-3	15-25	100 ppm	50 ppm	---
Tetrahydrofuran	109-99-9	25-35	750 ppm	750 ppm	---
Propylene oxide	75-56-9	25-35	200 ppm	200 ppm	Yes

This product contains components that are subject to reporting under SARA Title III, Section 313.

Emergency overview:

Material is highly volatile and flammable. Vapors are heavier than air and may travel along low areas to source of ignition.

Physical Health Hazards:

Can cause eye irritation on contact, inhalation can cause dizziness and ingestion can cause serious gastrointestinal difficulties including nausea and vomiting. Skin contact can cause defatting of the skin and solvents can penetrate the skin in to the body.

Physical state:

Liquid

Color:

Clear

Odor:

Ketone type

Odor threshold:

No data available

Potential Health Effects:

Routes of exposure

Eye contact, ingestion, skin contact, inhalation

Section 4: First Aid Measures

Take proper precautions to ensure your own health and safety before attempting to rescue and providing first aid. For specific information refer to the Emergency Overview in Section of this MSDS.

Inhalation: Remove to fresh air. Never give liquids to an unconscious person. Call medical assistance at once.

Eye Contact: Wash eyes with clean low-pressure water. Seek medical advice.

Skin Contact: Wash with soap and water.

Ingestion: Do not induce vomiting, seek medical attention at once.

Section 5: Fire Fighting Measures**Flash Point/Method:**

-17°C (1°F) TCC

Auto-Ignition Temperature:

Not determined

Flammable Limits (%V):

Lower: LEL: 2%

Upper: UEL: 10%

Hazardous Combustion Products:

Thermal decomposition may liberate carbon monoxide and carbon dioxide.

Special Conditions to Avoid:

Materials to avoid: Strong oxidizing agents

Conditions to avoid: Heat or ignition sources

Extinguishing Media:

Small fires: Use dry chemicals, CO2, alcohol type foam.

Fire Fighting Instructions:

Special exposure hazards: None known

Special protective equipment: Self contained breathing apparatus
and personal protective equipment.

Section 6: Accidental Release Measures**Release response:****Personal precautions:**

Spilled product constitutes a slip hazard.

Environmental precautions:

Try to keep liquid from getting into sewers or drainage of building.

Decontamination procedures:

Use absorbent materials, to soak up spilled liquid, which is then placed in containers for later disposal as a hazardous waste.

See paragraph 13 regarding disposal.

Section 7: Handling and Storage**Handling:**

Wear NIOSH approved respirator is point-of-use generates vapors above recommended limits.

Ventilation:

Local exhaust is required.

Protective clothing:

Long sleeve shirt, trousers, safety shoes, solvent resistant gloves.

Eye protection:

Chemical splash goggles

Other precautions:

Wash hands with soap and water before handling food. Material is flammable, store in a cool dry area away from heat sources.

Storage:

Keep cap tightly screwed on to protect integrity of the product and to keep vapors from escaping into the environment. Empty containers may contain residual vapors.

Section 8: Exposure Controls and Personal Protection

Engineering Controls:

Local exhaust ventilation

Personal Protection:**Inhalation:**

Wash hands after use, using soap and water to remove all residues of the product.

Skin:

Solvent resistant gloves

Eye:

Always use safety chemical goggles when handling this material.

Section 9: Physical and Chemical Properties

Physical State: Liquid
Odor: Ketone
Flash Point: > -17°C (1°F)
Boiling Point/Range
760 mm Hg: 63°C (145°F)
Explosive Limits: Not determined

Water Solubility: Not soluble
Color: Clear
Melting Point: Not known
Autoignition Point: Not determined

pH: Not applicable

Vapor Pressure: Not determined
Viscosity: Not applicable

Vapor density
(air = 1): 2.5

Octanol/Water Partition Coefficient in Kow:
Specific value not known

Evaporation Rate: Very low

Specific Gravity: 0.82

Evaporation Rate
(BuAc = 1): 6

Section 10: Stability and Reactivity

Chemical Stability:

The product is stable and will not polymerize.

Conditions to Avoid:

Elevated temperatures and ignition sources

Incompatibility with:

Strong oxidizing agents.

Hazardous Products of Deposition:

Thermal decomposition may liberate carbon monoxide and carbon dioxide.

Reactions with Air and Water:

Does not react with air, water or other common materials.

Section 11: Toxicological Information

Based on the product's components:**Acute Health Effects:****Eyes:**

May cause transient irritation from vapors, irritation and blurred vision from prolonged exposure to vapors or direct contact..

Inhalation:

Dizziness, nausea, headache, fatigue

Ingestion:

Gastrointestinal discomfort including irritation of gastrointestinal tract, nausea, and vomiting.

Chronic Health Effects:

Dizziness, fatigue, nausea, possible vomiting, possible skin irritation. Prolonged exposure may aggravate preexisting lung and skin disorders.

Chronic Effects/Carcinogenicity:

Not known about formulated composition, however exposure to toluene is thought to be carcinogenic.

Reproductive/Development Effects:

Not known

Section 12: Ecological Information**Environmental:**

When used and/or disposed of as indicated, no adverse environmental effects are foreseen.

Mobility:

Non-volatile/Insoluble in water.

Degradability:

Not known.

Section 13: Disposal Considerations

Product and packaging must be disposed of in accordance with local and national regulations. Maybe incinerated.

This material IS classified as a hazardous waste. It must be disposed of in accordance with all federal, state, and local regulations. Use only licensed transporters and permitted disposal facilities and conform to all laws.

Section 14: Transport Information

Material is classified as hazardous for transport by air, sea, or road.

Proper Shipping Name:

Flammable Liquid Class 3

DOT Hazard Class:

Flammable Liquid Class 3, UN #1123

Packing Group:

II

Labels:

Flammable

Marine Pollutant:

Not known

NAER Guidebook:

Not known

DOT Status:

Flammable

Section 15: Regulatory Information

TSCA:

All components of this product are listed on the TSCA 8(b) inventory. If identified components of this product are listed under the TSCA 12(b) Export Notification Rule, they will be listed below.

TSCA 12(b) Component	Listed under TSCA Section
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SARA-Section 313 Emissions Reporting:

Component	Reporting Threshold
Methyl ethyl ketone	
Toluene	
Propylene Oxide	
Orange pigment solvent Yellow 14	

SARA-Section 311/312: Not determined yet

CERCLA Hazardous Substances and their Reportable Quantities:

Component	Reportable Quantity
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Section 16: Other Information

Disclaimer of Liability:

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