

MICRO CHEM
SAFETY DATA SHEET

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Rev. Date: 18 December 2008

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION -----

PRODUCT USE: Organic Solvent Solution
TRADE NAME: MCC Primer 80/20
PRODUCT #: P021020

SUPPLIER: MicroChem Corporation
90 Oak Street, PO Box 426
Newton, MA 02464-0002

TELEPHONE: (617) 965-5511
FAX: (617) 965-5818
CHEMTREC USA
EMERGENCY #: (800) 424-9300
CHEMTREC INTL
EMERGENCY #: (703) 527-3887
MSDS DATE: 18 December 2008

SECTION 2. HAZARDS IDENTIFICATION -----

Hazardous Classification

Acute hazards aquatic env – Category 3
Acute toxicity (dermal)- Category 5
Acute Toxicity (inhalation-gas/vapour) – Category 4
Acute toxicity (oral) – Category 3
Flammable liquids - Category 2
Serious eye damage/eye irritation - Category 2A
Skin corrosion/irritation - Category 1C
Target organ systemic toxicant single exp - Category 3
Target organ systemic toxicant repeat exp - Category 2



Signal Word: **DANGER!**

Hazards

Highly flammable liquid and vapour
Toxic if swallowed.
Causes serious eye irritation.
Causes severe skin burns and eye damage.
Harmful if inhaled.
Harmful to aquatic life.
May cause damage to organs through prolonged or repeated contact.
May cause drowsiness and dizziness.
May cause respiratory irritation.

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Precautions

Do not eat, drink or smoke when using this product.
Avoid release to the environment.
Use only outdoors or in well-ventilated areas.
Wear protective gloves/clothing and eye/face protection.
Wash hands after handling.
Avoid breathing mists and vapours.
Keep away from heat, sparks and open flame. - No smoking.
Use explosion-proof equipment.
Take precautionary measures against static discharge.
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Immediately call a POISON CENTRE or doctor/physician.
IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
Rinse mouth.
Wash contaminated clothing before reuse.
IF SWALLOWED: Rinse mouth. Do not induce vomiting.
Use extinguishing measures that are appropriate to local circumstances

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS -----

INGREDIENTS: 1-Methoxy-2-propanol acetate (CAS: 108-65-6), 75-85%
Synonym: propylene glycol monomethyl ether acetate
2-Methoxy-1-propanol acetate (CAS: 70657-70-4), <0.5%
1,1,1,3,3,3-hexamethyldisilazane (CAS: 999-97-3), 15-25%
Synonym: HMDS

SECTION 4. FIRST AID MEASURES-----

INHALATION: If overcome by exposure, remove victim to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain emergency medical attention. Prompt action is essential.

INGESTION: If large quantity swallowed, give lukewarm water if victim completely conscious/alert. Do not induce vomiting. Risk of damage to lungs exceeds poisoning risk. Obtain emergency medical attention.

SKIN CONTACT: Remove contaminated clothing as needed. Wash thoroughly with soap and water. Flush with lukewarm water for 15 minutes. Seek medical attention.

EYE CONTACT: Immediately flush the eyes with large amounts of clean low-pressure water for at least 15 minutes, occasionally lifting the upper and lower lids. Seek medical attention immediately.

SECTION 5. FIRE-FIGHTING MEASURES-----

EXTINGUISHING MEDIA: Dry chemical, carbon dioxide, or alcohol-resistant foam.

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**SPECIAL FIRE FIGHTING
PRECAUTIONS:**

Do not enter fire area without proper protection. Wear positive pressure self-contained breathing apparatus (SCBA). Fight fire from a safe distance/protected location.

**UNUSUAL FIRE OR
EXPLOSION HAZARDS:**

Heat may build enough pressure to rupture closed containers. Use water spray/fog for cooling. Under fire conditions may emit toxic and corrosive nitrogen oxide vapors and other toxic fumes.

SECTION 6. ACCIDENTAL RELEASE MEASURES

EVACUATION

PROCEDURES & SAFETY:

Wear appropriate protective gear for the situation. See Personal Protection information in Section 8.

**CLEANUP & DISPOSAL
OF SPILL:**

Absorb with an inert absorbent. Sweep up and place in an appropriate closed container (see Section 7). Clean up residual material by washing area with water. Collect washings for disposal.

ENVIRONMENTAL &

REGULATORY REPORTING:

Do not flush to drain. If required proper authorities should be notified.

SECTION 7. HANDLING AND STORAGE

PRECAUTIONS:

Store locked up. Store container tightly closed in well-ventilated place.

STORAGE:

Store in tightly closed, properly vented containers away from heat, sparks, open flame and strong oxidizing agents. Storage under nitrogen is recommended to minimize possible formation of highly reactive peroxides.

HANDLING:

Keep away from heat, sparks, open flames and strong oxidizing agents.

Avoid breathing vapors.

Use with adequate ventilation.

Avoid contact with skin, eyes, and clothing. Have available safety shower and eyewash. Wear recommended personal protective equipment.

Wash with soap and water after handling.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OCCUPATIONAL

EXPOSURE LIMITS:

Propylene glycol monomethyl ether acetate: None established.
AIHA WEEL is 100 ppm TWA.

1,1,1,3,3,3-hexamethyldisilazane: None established.

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RESPIRATORY PROTECTION: Where exposure through inhalation may occur from use, approved respiratory protection equipment is recommended.
VENTILATION: General mechanical ventilation or local exhaust is sufficient under normal conditions.
SKIN PROTECTION: Impervious butyl gloves are recommended.
EYE PROTECTION: Chemical splash goggles and/or face shields are recommended.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES-----

APPEARANCE: Clear, colorless liquid
ODOR: Characteristic Ammonia-like
BOILING POINT: 134 °C (273 °F), @ 760mm Hg
SPECIFIC GRAVITY: 0.95 @ 25 °C (77 °F)
VAPOR PRESSURE: 3.8 mm Hg @ 25 °C (77 °F)
H₂O SOLUBILITY: Appreciable (10% or more)
% VOLATILES: 100% by wt
EVAPORATION RATE: 0.3 (BuAc = 1)
FLASH POINT: 18 °C (64 °F) TCC
AUTOIGNITION TEMP: 380 °C (716 °F)
EXPLOSION LIMITS: 1.5% lower (vol%)
10% upper (vol%)

SECTION 10. STABILITY AND REACTIVITY-----

STABILITY: Stable
CONDITIONS TO AVOID: Oxidizing Agents, strong acids, alkaline materials, water. Alcohol. May react quickly with alcohols and water under some conditions with release of moderate amounts of heat.
INCOMPATIBILITY: Oxidizing Agents, strong acids, alkaline materials, moisture and humidity, alcohol
HAZARDOUS POLYMERIZATION: Not expected to occur
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS: Carbon Monoxide and other toxic vapors

SECTION 11. TOXICOLOGICAL INFORMATION-----

Routes of Entry: Inhalation, ingestion, eye and skin contact

Symptoms of Exposure: Causes severe eye irritation. Causes severe skin burns and eye damage. May cause upper respiratory tract irritation, central nervous system depression, shortness of breath, drowsiness and confusion. Harmful if inhaled or swallowed. Prolonged, repeated exposure to high concentrations can cause adverse effects to liver and kidney.

Acute Toxicity

Acute Oral Toxicity

Component: Propylene glycol monomethyl ether acetate
LD50 rat 8,532 mg/kg

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Component: 1,1,1,3,3,3-hexamethyldisilazane
LD50 rat 813 mg/kg

Acute Dermal Toxicity

Component: Propylene glycol monomethyl ether acetate
LD50 rat > 5,000 mg/kg

Component: 1,1,1,3,3,3-hexamethyldisilazane
LD50 rat 1350 mg/kg

Acute Inhalation Toxicity

Component: Propylene glycol monomethyl ether acetate
LC50 rat 23.49 mg/l, LC50 rat >4,345 ppm 6hr

Component: 1,1,1,3,3,3-hexamethyldisilazane
LD50 rat 8.7 mg/l (4 hour)

Specific Concentration Limits

The values listed below represent the percentages of ingredients of unknown toxicity:

0% Acute oral toxicity
0% Acute dermal toxicity
0% Acute inhalation toxicity

Skin corrosion/irritation

Component: Propylene glycol monomethyl ether acetate
Acute Skin Irritation: this substance is a mild skin irritant

Component: 1,1,1,3,3,3-hexamethyldisilazane
Acute Skin Irritation: this substance causes severe skin burns.

Serious eye damage/eye irritation

Component: Propylene glycol monomethyl ether acetate
Acute Eye Irritation: Liquid is not irritating to eye. Mild eye irritation reported with vapor.

Component: 1,1,1,3,3,3-hexamethyldisilazane
Acute Eye Irritation: This substance causes eye irritation.

Respiratory or Skin Sensitisation

Component: Propylene glycol monomethyl ether acetate
Skin sensitization - Does not induce skin sensitization

Carcinogenicity

Component: Propylene glycol monomethyl ether acetate
Studies in laboratory animals indicate that this substance is not carcinogenic.

Component: 1,1,1,3,3,3-hexamethyldisilazane
This substance is not listed as carcinogenic by NTP, IARC or OSHA

Germ Cell Mutagenicity

Component: Propylene glycol monomethyl ether acetate
No evidence of genotoxicity in standard bacterial and mammalian test systems in vitro.

Component: 1,1,1,3,3,3-hexamethyldisilazane
Ames Test – Negative with and without metabolic activation.

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Specific Target Organ Systemic Toxicity (single exposure)

Component: Propylene glycol monomethyl ether acetate
Central Nervous System

Specific Target Organ Systemic Toxicity (repeated exposure)

Component: Propylene glycol monomethyl ether acetate
Central Nervous System, Liver, Kidney

Toxicity to Reproduction

Component: Propylene glycol monomethyl ether acetate

This substance is not expected to cause adverse reproductive effects at dose levels that are not also toxic to the parent.

Component: 2-Methoxy-1-propanol acetate (CAS: 70657-70-4)

In laboratory animals, developmental effects were observed in the offspring.

Aspiration Hazards

No data found.

SECTION 12. ECOLOGICAL INFORMATION

Acute aquatic toxicity

Acute toxicity to fish

Component: Propylene glycol monomethyl ether acetate

96-h LC50 (Pimephales promelas): 161 mg/L

Component: 1,1,1,3,3,3-hexamethyldisilazane

96-h LC50 (Brachydanio rerio): 88 mg/l

Acute toxicity to aquatic invertebrates

Component: Propylene glycol monomethyl ether acetate

96-h EC50 Daphnia magna: >500 mg/L

Component: 1,1,1,3,3,3-hexamethyldisilazane

48-h ELC50 (daphnia magna): 80 mg/l

Acute toxicity to algae

Component: Propylene glycol monomethyl ether acetate

No data found

Component: 1,1,1,3,3,3-hexamethyldisilazane

72-h EC50 (Scenedesmus subspicatus): 19 mg/l

Specific concentration limits

The values listed below represent the percentages of ingredients of unknown toxicity.

0.1% Acute aquatic toxicity – fish

0.1% Acute aquatic toxicity – aquatic invertebrates

0.1% Acute aquatic toxicity - algae

Chronic aquatic toxicity

Chronic toxicity to fish

No data found

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Chronic toxicity to aquatic invertebrates

No data found

Chronic toxicity to algae

No data found

Persistence/Degradability

Component: Propylene glycol monomethyl ether acetate
This material is readily biodegradable.

Bioaccumulation

Component: Propylene glycol monomethyl ether acetate
Not expected to bioaccumulate in aquatic organisms. Log Pow: <3

Mobility

Component: Propylene glycol monomethyl ether acetate
Rapid dissipation in soil expected. Koc value between 0 and 50 indicating very high soil mobility.

SECTION 13. DISPOSAL CONSIDERATIONS

Precautions

CONTAINERS MAY BE HAZARDOUS WHEN EMPTY. Since emptied containers retain product residue follow all MSDS and label warnings even after container is emptied. Dispose of contents/container in accordance with local regulation.

Disposal

Comply with applicable local, state or international regulations regarding the proper disposal of this material and/or containers. Dispose of contents/container in accordance with local regulation.

SECTION 14. TRANSPORTATION INFORMATION

HAZARD CLASSIFICATION: Flammable, Corrosive
SHIPPING NAME: Flammable liquids, corrosive, nos (propylene glycol monomethyl ether acetate, hexamethydisilazae)
UN NUMBER: UN 2924
PACKING GROUP: II

SECTION 15. REGULATORY INFORMATION

US AND INTERNATIONAL INFORMATION

Chemical Inventories: TSCA (US) – Listed.
EINECS/ELINCS – Listed.
China – Listed.
Japan – Listed.
DSL/NDSL (Canada) – Listed.
AICS (Australia) – Listed.
Korea – Listed.
Philippines - Listed

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SARA Title III: This product IS NOT subject to SARA Title III,
Section 313 Reporting Requirements.
Calif. SCAQMD Rule 443.1 VOC's: 960 g/l; vapor pressure 3.8 mm Hg @ 25° C

SECTION 16. OTHER INFORMATION

National Fire Protection Association Hazard Ratings – NFPA:

- 3 Health Hazard Rating
- 3 Flammability Rating
- 1 Reactivity Rating

For additional information contact: productsafety@microchem.com

To the best of our knowledge, the above information is believed to be accurate but does not claim to be all-inclusive and is intended to be used only as a guide. The supplier makes no warranty of any kind, expressed or implied, concerning the use of this product and shall not be held liable for any damage resulting from handling or from contact with the above product. User assumes all risks incident to its use.

MSDS Revision Information: NEW