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THE MICROSEAL COMPANY

MATERIAL SAFETY DATA SHEET MICROSEAL-AC & -DS-AC

24 Hour Emergency Contact

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1. Product and Company Identification

Microleak-Seal Impregnant, Inc.

D.b.a.: THE MICROSEAL CO.

Mail: P.O.BOX 541
ROME, NY, USA 13442-0541

Office: 707 WEST BLOOMFIELD ST.
ROME, NY, USA 13440-3114

Tel: 315-337-2720

Plant: WEST ROME INDUSTRIAL PARK
ROME, NY, USA 13440

Substance: MICROSEAL-AC AND MICROSEAL-DS-AC containing Acetone as a solvent

Symbol of Solvent: C3-H6-O

Trade Names/Synonyms (of Solvent):

DIMETHYLKETAL, DIMETHYL KETONE, PROPANONE, 2-PROPANONE, UN1090

Chemical Family (Of Solvent): ketones, aliphatic

Date Prepared:

May 2000, Revised: 12 May 2010

2. Hazardous components and Hazard Identification

NFPA RATINGS (scale 1-4): Health-1, Fire-3, Reactivity-0

WHIMS CLASSIFICATION: BD2

EC CLASSIFICATION (assigned): F Highly flammable; Xi Irritant, R 11-36/37

EC classification may be inconsistent with independently researched data

EMERGENCY OVERVIEW:

Color: colorless

Physical Form: liquid

Odor: sweet odor, mint-like

Major health hazards: respiratory tract irritation, skin irritation, eye irritation,
central nervous system depression

Physical Hazards: Flammable liquid and vapor. Vapor may cause flash fire.

POTENTIAL HEALTH EFFECTS:

Inhalation:

Short term exposure: irritation, nausea, vomiting, difficulty breathing, headache, drowsiness,
symptoms of drunkenness, lung damage.

Long term exposure: convulsions

Skin Contact:

Short term exposure: irritation due to defatting action on skin. Causes redness. pain and cracking of
the skin.

Long term exposure: same as short term inhalation

Eye Contact

Short term exposure: irritation, eye damage

Long term exposure: same as effects in short term exposure

Ingestion

Short term exposure: vomiting, digestive disorders, difficulty breathing, irregular heartbeat, headache, symptoms of drunkenness, coma

Long term exposure: no information on significant adverse effects

Carcinogen Status:

OSHA: N ; NTP; N; IARC; N

Main Component:

	Acetone
CAS No:	67-64-1
UN No:	1090
Percentage:	90% for Microseal-AC 80% for Microseal-DS-AC

3. Non-hazardous components

Bakelite-type resins (which contain less than 1 ppm of Vinylchloride Monomer and less than 0.5% of Vinyl Acetate)

4. First Aid Measures

Inhalation

Remove from exposure and into fresh air immediately. If breathing is difficult administer oxygen. If breathing stopped give artificial respiration (can use a bag valve mask or similar device). Keep person warm, quiet and get medical attention.

Skin Contact

Remove contaminated clothing and shoes immediately. Wash area with soap or mild detergent and with large amounts of water for at least 15 minutes. Get medical attention if needed. Launder contaminated clothing before re-use.

Eye Contact

Flush eyes immediately with large quantities of water for 10-15 minutes. Occasionally lift upper and lower lids. Seek medical attention.

Ingestion

Contact the local poison control center and/or physician right away. Do not induce vomiting! (aspiration of material into the lungs due to vomiting can cause chemical pneumonia which can be fatal). When vomiting occurs, keep head lower than hips to help prevent aspiration and if person is unconscious, turn head to the side.

Note to Physician:

For ingestion, consider gastric lavage and a slurry of activated charcoal.

5. Fire Fighting Measures

Fire and Explosion Hazards:

Severe fire hazard. The vapor is heavier than air. Therefore, vapors or gases may ignite at distant ignition sources and flash back. Vapor/air mixtures are explosive above flash point.

6. Accidental Release Measures

Air Release:

Reduce vapors with water spray.

Soil Release:

Dig holding area such as pond or pit for containment. Absorb with sand or other non-combustible material.

Water Release:

Cover with absorbent sheets, spill-control packs or pillows. Remove trapped material with suction hoses.

Occupational Release:

Avoid heat, flames, sparks and other sources of ignition. Remove sources of ignition. Stop leak if possible without personal risk. Reduce vapors with water spray.

Small Spills: Absorb with sand, vermiculite or other non-combustible material. Collect spilled material in appropriate containers for disposal.

Large Spills: Wear suitable protective equipment. Dike for later disposal. Stop spill at source and prevent from entering drains, sewers, streams or other bodies of water. Prevent from spreading. Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind and keep out of low areas. Reportable Quantity (R.Q.): Notify Local Emergency Planning Committee and State Emergency Response Commission for release greater than or equal to R.Q. (U.S. Sarah Section 304). If release occurs in the U.S. And is reportable under CERCLA Section 103, notify the National Response Center at 800-424-8802 (USA) or 202-426-2675 (USA).

7. Handling and Storage

Store and handle in accordance with all current regulations and standards. Subject to storage regulations US OSHA29 CFR 1910.106. Grounding and bonding required. Keep separated from incompatible substances.

Keep away from heat, sparks and fire. Do not leave containers open. Use with adequate ventilation.

8. Exposure Controls, Personal Protection

Exposure Limits

ACETONE:

TWA: 500 STEL: 750 (ppm) from ACGIH (TLV) [United States]

TWA: 750 STEL: 1000 (ppm) from OSHA (PEL) [United States]

TWA: 500 STEL: 1000 [Australia]

TWA: 1185 STEL: 2375 (mg/m3) [Australia]

TWA: 750 STEL: 1500 (ppm) [United Kingdom]
TWA: 1810 STEL: 3620 (mg/m3) [United Kingdom]
TWA: 1800 STEL: 2400 from OSHA (PEL) [United States] Consult local authorities for acceptable exposure limits.

Ventilation:

Provide local exhaust ventilation. Ventilation equipment should be explosion-resistant if explosive concentrations of material are present. Ensure compliance with applicable exposure limits.

Eye Protection:

Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Clothing:

Wear appropriate chemical resistant clothing.

Gloves:

Wear appropriate solvent resistant gloves: Natural rubber or Neoprene

Respirator:

The following respirators and maximum use concentrations are drawn from NIOSH and /or OSHA

3000 Ppm:

Any supplied-air respirator
Any powered, air-purifying respirator with organic vapor cartridges
Any chemical cartridge respirator with a full face piece and organic vapor cartridges
Any air-purifying respirator with a full face piece and an organic vapor canister
Any self-contained breathing apparatus with a full face piece
Any supplied-air respirator with a full face piece.

Escape:

Any air-purifying respirator with a full face piece and an organic vapor canister
Any appropriate escape-type, self-contained breathing apparatus.

For Unknown Concentrations or Immediately Dangerous to Life or Health -
Any supplied air respirator with full face piece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply.
Any self-contained breathing apparatus with a full face piece.

9. Physical and Chemical Properties

Boiling Point:	176 F (80 C)
Color:	colorless, clear
Evaporation Rate:	2.7 (ether=1)
Freezing Point:	-123 F (-86 C)
Odor:	sweet like mint (non-residual)
Odor Threshold:	10 ppm
Ph:	not applicable

Physical State:	liquid
Specific Gravity:	.820-.830 (Microseal-AC); .840-.850 (Microseal-DS-AC)[water=1]
Vapor Density:	2.0 (water =1.0)
Vapor Pressure:	180.0 mm/Hg@ 20 deg. C
Viscosity:	4.00-6.00 cP for Microseal-AC 17.00-23.00 cP for Microseal-DS-AC
Volatile % volume:	90 for Microseal-AC; 80 for Microseal-DS-AC
Water Solubility:	precipitates in water

10. Stability and Reactivity

Stability: Material is stable at normal temperatures and pressure.

Conditions to Avoid: Avoid heat, flames, sparks and other sources of ignition.

Containers may rupture or explode if exposed to heat.

Never use welding or cutting torches on or near drums (even when empty)

Incompatibilities: Avoid contact with strong oxidizing agents, halo carbons, acids, combustible materials, peroxides and bases.

11. Toxicological Information

ACETONE:

Irritation Data:

350 ppm human eyes, 500 mg/24 hrs rabbit skin moderate, 402 mg/24hrs rabbit skin mild, 13780 gm/24hrs open rabbit skin, 80 mg rabbit eyes

Toxicity Data:

23500 mg/m³/8hrs inhalation by rat LC50; 6480 mg/kg rabbit skin LD50; 2737 mg/kg rat orally LD50

Local Effects:

irritant: inhalation, skin, eye

Acute Toxicity Level:

Moderately toxic: ingestion

Slightly toxic: inhalation and dermal absorption

Target Organs:

central nervous system

Medical Conditions Aggravated By Exposure:

Nervous system disorders, respiratory disorders, skin disorders and allergies

Mutagenic Data:

Available

Reproductive Effects Data:

Available

12 Ecological Information

Ecotoxicity Data:

Ecotoxicity in water (LC50): 5540 mg/l 96 hours [trout], 8300mg/l 96 hours [Bluegill], 7500 mg/l 96 hours ([Fathead Minnow], 0.1 ppm any hours [Water flea]

Environmental Summary:

Harmful to aquatic life

13. Disposal Considerations

Dispose in accordance with all applicable regulations. Hazardous Waste Number(s) D035.
Dispose of in accordance with U.S.EPA 40 CFR 262 for concentrations at or above the regulatory level.
Regulatory level- 200.0 mg/L. Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Numbers: U159.

14. Transport Information

U.S. Dot 49 Cfr 172.101.

In Order: SHIPPING NAME-UN NUMBER; HAZARD CLASS; PACKING GROUP; LABEL;

Shipping name = Acetone

UN number = UN1090

Hazard class = 3

Packing group = Roman numeral 2 or II

Label = flammable liquid

15. Regulatory Information

U.S. Regulations:

TSCA 8(b) inventory: Acetone

TSCA 4(a) final test rules: Acetone

TSCA 8(a) IUR: Acetone

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

Canadian Regulations:

WHMIS:

Class B-2: Flammable liquid with a flash point lower than 37.8 deg.C (100 deg.F)

Class D-2B: Material causing other toxic effects (TOXIC)

European Regulations:

EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances

HMIS (USA):

Health Hazard: 2
Fire Hazard: 3
Reactivity: 0
Personal Protection: h

National Fire Protection Association (USA):

Health: 1
Flammability: 3
Reactivity: 0

Protective Equipment:

Gloves

Lab Coat

Vapor Respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

Splash goggles

16. Other information

The information herein is believed to be accurate but is not warranted to be - whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable and suitable to their circumstances.