
THE MICROSEAL COMPANY
DIVISION OF MICROLEAK-SEAL IMPREGNANT, INC.
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MATERIAL SAFETY DATA SHEET ON MICROSEAL-AC &
MICROSEAL-DS-AC (both in liquid form)

SECTION 1 --- PRODUCT IDENTIFICATION

IDENTITY (AS USED ON LABEL AND LIST): MICROSEAL-AC
AND
MICROSEAL-DS-AC

MANUFACTURER'S NAME: MICROLEAK-SEAL IMPREGNANT, INC.
D.B.A. THE MICROSEAL COMPANY
ADDRESS: P.O.BOX 541, ROME, NY , U.S.A. 13442-0541

EMERGENCY TELEPHONE NUMBER: CHEM.TEL.INC. 1-800-255-3924 or 813-248-0585
TELEPHONE NUMBER FOR INFORMATION: 315-337-2720

HAZARD RATING: FIRE- - - - - 3
HEALTH- - - - 2
REACTIVITY- - 0

DATE PREPARED: MAY 10, 2000 , revised July 2006. Reviewed Nov 2007 - no changes required.

SECTION 2A -- HAZARDOUS COMPONENTS

Ingredient	UN#	%	C.A.S.	ACGIH-TLV	OSHA-PEL
ACETONE	UN1090	90 (for regular)	67.64.1	500 ppm TWA	1000 ppm TWA
		80 (for DS)	67.64.1	750 ppm STEL	

SECTION 2B -- NON-HAZARDOUS COMPONENTS

BAKELITE-TYPE RESINS (which contain less than 1 ppm of Vinylchloride Monomer and less than 0.5% of Vinyl Acetate)

SECTION 3 -- PHYSICAL/CHEMICAL CHARACTERISTICS

APPEARANCE: Clear liquid
BOILING POINT: 133 DEG F (56 DEG C)

ENVIRONMENTAL PRECAUTIONS: Do not flush into surface water or sanitary sewer system. Non-toxic to aquatic life. Readily biodegradable.

EVAPORATION RATE(butyl acetate-1.0): 6.0
FREEZING/MELTING POINT: -139 deg. F (-95 deg.C)
ODOR: Pungent
ODOR THRESHOLD (ppm) 20 ppm
SOLUBILITY IN WATER: Precipitates in water.
SPECIFIC GRAVITY (water=1.0) .820-.830(regular)/.840-.850(DS)
VAPOR DENSITY (AIR = 1): 2.0

VAPOR PRESSURE mm/hg(20 degC): 180.0

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VOLATILES % VOLUME: 90 for regular Microseal ; 80 (for Microseal-DS)

SECTION 4 -- FIRE FIGHTING MEASURES

FLASH POINT(P-M closed cup) -4 deg F (-20 deg C)
IGNITION TEMPERATURE: 869 deg F (465 deg C)
FLAMMABLE LIMITS IN AIR %by volume: Lower explosion limit : 2.6% (V)
Upper explosion limit: 12.8 % (V)
SENSITIVITY TO MECHANICAL IMPACT: No
SENSITIVITY TO STATIC DISCHARGE: Yes
FIRE AND EXPLOSION: Vapours may form explosive mixture with air. Flash back is possible over considerable distance. Use water spray to disperse the vapors. NFPA Class 1B flammable liquid
EXTINGUISHING MEDIA: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
FIRE FIGHTING INSTRUCTIONS: Self-contained breathing apparatus (SCBA) and structural firefighter'Xs protective clothing will provide limited protection.
SPECIAL FIREFIGHTING PROCEDURES: Vapors are heavier than air and may travel a considerable distance to a source of ignition and flash back. Vapor-air mixtures are explosive. Consider evacuation downwind. Wear appropriate protection equipment.
If possible, move containers from fire area, apply cooling water to sides of containers ensuring that you stay away from the ends of large containers.
Evacuate immediately if tanks are discolored or if rising sound is emitted from drums. For massive fire use unmanned hose holders or monitor nozzles.
Water may be ineffective if flow of flammable liquid is not stopped.
FLAMMABILITY CLASS (OSHA): I B
FURTHER INFORMATION: Keep containers and surroundings cool with water spray. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

SECTION 5 –X STABILITY AND REACTIVITY

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

HAZARDOUS THERMAL DECOMPOSITION/
COMBUSTION PRODUCTS: Oxides of Carbon

INCOMPATIBILITY (MATERIALS TO AVOID): Acids, Aliphatic Amines, Bromine, Bromine Trifluoride, Bromoform, Chloroform, Chromium Trioxide, Chromyl Chloride, Dioxygen Difluoride

SECTION 7 –X FIRST AID MEASURES

EYE CONTACT:	Immediately flush eyes with plenty of water for at least 15 minutes and consult a physician.
SKIN CONTACT:	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. When symptoms persist or in all cases of doubt seek medical advise. Wash contaminated clothing before re-use.
INHALATION:	Remove to fresh air. If breathing is irregular or stopped administer artificial respiration. If breathing is difficult, give oxygen. Call a physician immediately.
INGESTION:	If swallowed, call a physician or poison control center immediately. Do not induce vomiting without medical advise. Never give anything by mouth to an unconscious person.

SECTION 8 -- SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE OF SPILL OR LEAK:

Evacuate personnel to safe areas. Remove all sources of ignition. Contain and collect spillage with non-combustible absorbent material (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations (see Section 13). Do not flush into surface water or sanitary sewer system.

SECTION 9 –X HANDLING AND STORAGE

SAFE HANDLING ADVICE: Ensure all equipment is electrically grounded before beginning transfer operations.

STORAGE/TRANSPORT PROCEDURES: Ambient.

FURTHER INFORMATION ON STORAGE CONDITIONS:

Keep away from heat and sources of ignition.

EMPTY CONTAINERS:

Containers of this material may be hazardous when emptied since emptied containers retain product residues (vapor, liquid and/or solid). All hazard precautions given in the data sheet must be observed.

SECTION 10 – EXPOSURE CONTROLS/PERSONAL PROTECTION

PERSONAL PROTECTION CODE: G

EXPOSURE GUIDELINES: Components Exposure limit(s)

Acetone OSHA PEL 1,000 ppm
ACGIH TLV (6-hour) 600 ppm
ACGIH STEL 750 ppm

PROTECTIVE CLOTHES: Impervious gloves and clothing to prevent skin contact.
Recommended are solvent resistant gloves, such as natural rubber or neoprene gloves.

EYE AND FACE PROTECTION: Safety goggles and/or a face shield.

OTHER PROTECTIVE EQUIPMENT: Where there is any possibility that an employee's eyes may be exposed to this substance, the employer should provide an eye wash fountain within the immediate work area for emergency use.
Where there is any possibility that an employee's skin may be exposed to this substance, the employer should provide a quick drench shower within the immediate work area for emergency use.

VENTILATION: Provide local exhaust ventilation to meet published exposure limits. Ventilation equipment should be explosion-proof if explosive concentrations of dust, vapor or fume are present.

SECTION 11 - ECOLOGICAL INFORMATION

AQUATIC TOXICITY: Non-toxic to aquatic life.
(Trout) 96 hours 5,540 mg/l.
(Goldfish) 24 hours 5,000 mg/l
(Bluegill sunfish) 96 hours 6,300 mg/l.
(Shrimp) 24 hours 2,100 mg/l.
(Daphnia) 46 hours 10 mg/l.

BIODEGRATION: Readily biodegradable.

SECTION 12 –X DISPOSAL CONSIDERATIONS.

WASTE CODE: F003 (RQ 5,000 Lbs)

DISPOSAL METHODS: Dispose of only in accordance with local , state, and federal regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil.

EMPTY CONTAINERS: Empty containers retain product residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut , weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty drums should be completely drained, triple-rinsed, properly bunged and promptly returned to a drum reconditioner or properly disposed.

SECTION 13 –X TRANSPORT INFORMATION

DOT SHIPPING NAME: Acetone
DOT HAZARD CLASS: 3 (flammable liquid)
 Packaging Group II
UN NUMBER: UN1090
PLACARDS: In accordance with DOT 49CFR173 and 49CFR243
IATA DESCRIPTION: Acetone, 3, UN 1090, II
IMDG DESCRIPTION: Acetone, 3, UN 1090, II

TRANSPORT EMERGENCY PROCEDURES: Contact Chem Tel. 1-800-255-3924

SECTION 14 –X REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

OSHA classification Flammable liquid. Eye irritant

TSCA Inventory Listing

Components	CAS-No
=====	=====
ACETONE	67-64-1

SARA 302 Status

Components	CAS-No	Weight %
=====	=====	=====
Contains no chemicals subject to SARA 302 reporting		

SARA 311/312 Classification
 “XFire Hazard”X, “XImmediate (acute) health hazard”X

SARA 313 Chemical

Components	CAS-No	Weight %
=====	=====	=====
Contains no chemicals subject to SARA 313 reporting		

CERCLA Hazardous Substance

Components =====	CERCLA RQ =====	Weight % =====
Acetone	5,000 LB	90% (Microseal-AC) 80% (Microseal-DS-AC)

INTERNATIONAL REGULATIONS

Workplace Hazardous Materials Information Systems (WHMIS) Classification

- Class B, Division 2: Flammable Liquid
- Class D, Division 2, Subdiviison B: Toxic material

Australian Inventory of Chemical Substances (AICS) Listing

Listed on the AICS

Japanese Minister of International Trade and Industry (MITI) Inventory Listing

Listed on MITI

Canadian Domestic Substance List (DSL) Inventory Listing

Listed on the DSL

European Inventory of Existing Commercial Chemical Substances (EINECS) Listing

Listed on EINECS Inv. 200-662-2

Phillipines Inventory List (PICCS)

Listed on PICCS

Korean Inventory List

Listed on the ECL

China Inventory List

Listed on the China Inventory

STATE REGULATIONS

California Safe Drinking Water Act (Prop 65) Listing

Components	CAS-No.
Contains no chemical subject to California Prop. 65. EINEIS INV. 200-662-2	

SECTION 15 –X OTHER INFORMATION

HAZARD RATINGS:	Health	Flammability	Reactivity
HMIS	1	3	0
NFPA	1	3	0

SECTION 16 - ADDITIONAL INFORMATION

DISCLAIMER: The data and information contained herein are being furnished for informational purposes only, upon the express condition that

each customer shall make its own assessment of appropriate use and appropriate shipping, transfer and storage materials and procedures for The Microseal Co'Xs products. Although based on information sources which we consider accurate and reliable, The Microseal Co. makes no warranty, either express or implied, including any warranties of merchantability or fitness for a particular purpose, regarding the validity of this information, the information sources upon which the same are based, or the results to be obtained, and expressly disclaims liabilities for damages or injuries resulting from the use thereof.

ABBREVIATIONS USED:

Abbreviations used throughout this MSDS are:

ACGIH=American Conference of Governmental Industrial Hygienists

TWA = Time Weighted Average (Exposure Values)

STEL = Short Term Exposure Limits

OSHA = Occupational Safety and Health Administration

PEL = Permitted Exposure Limits

ppm = Parts per Million

mg = Milligrams

NIOSH = National Institute for Occupational Health & Safety

MSHA = Mine Safety and Health Administration

lb = Pounds

m3 = per Cubed Meter

NTP = National Toxicological Program

g = Gram

ml = Milliliter

RTECS = Registry of Toxic Effects of Chemical Substances (NIOSH)

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*** End of Data Sheet ***