



Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 02/08/2011

Version 2

Reviewed on 02/08/2011

1 Identification of the substance/mixture and of the company/undertaking

· Product identifier

· Trade name: **Metasil 5002**

· Application of the substance / the preparation
Sealant

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier: Mereco Division
Metachem Resins Corporation
1505 Main Street
West Warwick, RI 02893
USA Phone +1 / 401 / 822-9300

· Information department: Technical department.
email = info@mereco.com

· Emergency telephone number: Telephone: (401) 822-9300

* 2 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: Mixture of the substances listed below with non-hazardous additions.

· Components:		
	inorganic filler	Xi R36/37
	acetoxysilane crosslinker	Xi R36
64-19-7	acetic acid	C R35 R10

· Additional information:

This material is non-hazardous.

This material releases acetic acid when it is undergoing moisture cure. Acetic acid is moderately toxic by ingestion and inhalation. Acetic acid is a severe skin, eye and mucous membrane irritant. Skin sensitization has been reported in some instances. Acetic acid may cause burns upon prolonged or repeated contact. Upon completion of the curing process, acetic acid is no longer released.

This material is a blend of silicone liquids and mineral or ceramic powders. These solid fillers do not pose airborne hazards to the user of this formulated product because they are completely encapsulated in the liquid material. If any of the powdered ingredients are hazardous in accordance with Section 313 of the Emergency Planning and Community Right-to-know Act (EPCRA) they are identified in section 15 of this MSDS (SARA Section 313).

(Contd. on page 2)

— USA —

Material Safety Data Sheet

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Reviewed on 02/08/2011

Trade name: **Metasil 5002**

(Contd. from page 1)

For the wording of the listed risk phrases refer to section 16.

* 3 Hazards identification

· Classification of the substance or mixture

· Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Not Applicable

This material is non-hazardous

· Information concerning particular hazards for human and environment:

The product does not have to be labelled due to the calculation procedure of international guidelines.

· Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

· Label elements

· Labelling according to EU guidelines:

Observe the general safety regulations when handling chemicals. The product is not subject to identification regulations according to directives on hazardous materials.

· Classification system:

· NFPA ratings (scale 0 - 4)

Health = 2

Fire = 1

Reactivity = 1

The substance demonstrates unusual reactivity with water.

· HMIS-ratings (scale 0 - 4)

Health = 2

Fire = 1

Reactivity = 1

4 First aid measures

· General information:

No special measures required.

· After inhalation:

Supply fresh air; consult doctor in case of complaints.

· After skin contact:

Generally the product does not irritate the skin.

· After eye contact:

Rinse opened eye for several minutes under running water.

· After swallowing:

If symptoms persist consult doctor.

* 5 Firefighting measures

· Suitable extinguishing agents:

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

(Contd. on page 3)

—USA—

Material Safety Data Sheet

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Printing date 02/08/2011

Version 2

Reviewed on 02/08/2011

Trade name: **Metasil 5002**

(Contd. from page 2)

- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Protective equipment:** No special measures required.

* 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **Reference to other sections** No dangerous substances are released.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

* 7 Handling and storage

- **Handling:**
 - **Precautions for safe handling** No special measures required.
Store in cool, dry place in tightly closed receptacles.
Use only in well ventilated areas.
 - **Information about protection against explosions and fires:** Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- **Storage:**
 - **Requirements to be met by storerooms and receptacles:** No special requirements.
 - **Information about storage in one common storage facility:** Not required.
 - **Further information about storage conditions:** None.
 - **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

(Contd. on page 4)

— USA —

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Trade name: **Metasil 5002**

(Contd. from page 3)

· Components with limit values that require monitoring at the workplace:	
64-19-7 acetic acid	
PEL	25 mg/m ³ , 10 ppm
REL	Short-term value: 37 mg/m ³ , 15 ppm Long-term value: 25 mg/m ³ , 10 ppm
TLV	Short-term value: 37 mg/m ³ , 15 ppm Long-term value: 25 mg/m ³ , 10 ppm
· Additional information:	The lists that were valid during the creation were used as basis.
· Personal protective equipment:	
· General protective and hygienic measures:	The usual precautionary measures for handling chemicals should be followed.
· Breathing equipment:	Not required.
· Protection of hands:	The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material is based on consideration of the penetration times, rates of diffusion and the degradation of the material.
· Material of gloves	The selection of suitable gloves depends not only on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
· Penetration time of glove material	The exact penetration time has to be determined by the glove manufacturer and has to be observed.
· Eye protection:	Goggles recommended during refilling.

* 9 Physical and chemical properties

· General Information	
· Appearance:	
· Form:	Pasty
· Color:	Clear
· Odor:	Acidic
· Odour threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
· Melting point/Melting range:	Undetermined.

(Contd. on page 5)

— USA —

Material Safety Data Sheet

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Version 2

Reviewed on 02/08/2011

Trade name: **Metasil 5002**

(Contd. from page 4)

· Boiling point/Boiling range:	Undetermined.
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not self-igniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
· Lower:	Not determined.
· Upper:	Not determined.
· Vapor pressure:	Not determined.
· Density at 20°C:	1.08 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
· Water:	Hydrolized. Not miscible or difficult to mix.
· Segregation coefficient (n-octanol/water):	Not determined.
· Viscosity:	
· Dynamic:	Not determined.
· Kinematic:	Not determined.
· Solvent content:	
· Organic solvents:	4.0 %
· Other information	No further relevant information available.

* 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** Protect from humidity and water.
- **Hazardous decomposition products:** No dangerous decomposition products known.

— USA —

(Contd. on page 6)

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 02/08/2011

Version 2

Reviewed on 02/08/2011

Trade name: **Metasil 5002**

(Contd. from page 5)

* 11 Toxicological information

· Acute toxicity:

· LD/LC50 values that are relevant for classification:		
64-19-7 acetic acid		
Oral	LD50	3310 mg/kg (rat)
Dermal	LD50	1060 mg/kg (rabbit)
7631-86-9 silicon dioxide, chemically prepared		
Oral	LD50	10000 mg/kg (rat)

· Primary irritant effect:

· on the skin:

No irritant effect.

· on the eye:

No irritating effect.

· Sensitization:

No sensitizing effects known.

· Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

* 12 Ecological information

· Aquatic toxicity:

No further relevant information available.

· Persistence and degradability

No further relevant information available.

· Behavior in environmental systems:

· Bioaccumulative potential

No further relevant information available.

· Additional ecological information:

· General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

· Waste treatment methods

· Recommendation:

Smaller quantities can be disposed of with household waste.

· Uncleaned packagings:

· Recommendation:

Disposal must be made according to official regulations.

— USA —

(Contd. on page 7)

Material Safety Data Sheet

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Printing date 02/08/2011

Version 2

Reviewed on 02/08/2011

Trade name: **Metasil 5002**

(Contd. from page 6)

14 Transport information

· DOT regulations:	
· Hazard class:	- Not Regulated
· Proper shipping name (technical name):	Not Regulated
· Land transport ADR/RID (cross-border):	
· ADR/RID class:	- Not Regulated
· Maritime transport IMDG:	
· IMDG Class:	- Not Regulated
· Marine pollutant:	No
· Air transport ICAO-TI and IATA-DGR:	
· ICAO/IATA Class:	- Not Regulated

* 15 Regulatory information

· Sara

· Section 302 (extremely hazardous substances):		
None of the ingredients is listed.		
· Section 313 (Specific toxic chemical listings):		
None of the ingredients is listed by CAS number.		
· Sections 311/312 (Specific hazard chemical listings):		
64-19-7	acetic acid	
· Sections 311/312 Hazard Categorizations:		
64-19-7	acetic acid	Acute, Chronic, Fire, Reactivity 3-10%
· TSCA (Toxic Substances Control Act):		
All ingredients are listed.		
· Proposition 65		
· Chemicals known to cause cancer:		
None of the ingredients is listed.		
· Chemicals known to cause reproductive toxicity for females:		
None of the ingredients is listed.		
· Chemicals known to cause reproductive toxicity for males:		
None of the ingredients is listed.		
· Chemicals known to cause developmental toxicity:		
None of the ingredients is listed.		

(Contd. on page 8)

— USA —

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Reviewed on 02/08/2011

Trade name: Metasil 5002

(Contd. from page 7)

- **Carcinogenic categories**

· EPA (Environmental Protection Agency)		
None of the ingredients is listed.		
· IARC (International Agency for Research on Cancer)		
7631-86-9	silicon dioxide, chemically prepared	3 3-10%
· NTP (National Toxicology Program)		
None of the ingredients is listed.		
· TLV (Threshold Limit Value established by ACGIH)		
None of the ingredients is listed.		
· MAK (German Maximum Workplace Concentration)		
None of the ingredients is listed.		
· NIOSH-Ca (National Institute for Occupational Safety and Health)		
None of the ingredients is listed.		
· OSHA-Ca (Occupational Safety & Health Administration)		
None of the ingredients is listed.		

* **16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**
 - R10 Flammable.
 - R35 Causes severe burns.
 - R36 Irritating to eyes.
 - R36/37 Irritating to eyes and respiratory system.
- **Department issuing MSDS:** Technical department
- **Contact:** Dr. John F. Plummer
- *** Data compared to the previous version altered.**