



# ThermaBarrier™

## Technical Data Sheet

### Thermal Insulation Seaming Tapes



#### DC-M194A

##### All Weather Double Sided Polyester Tape

Use for lap seals on laminated insulation and reflective insulation

1.41 in x 60 yd | 36 mm x 55 m  
1.41 in x 360 yd | 36 mm x 329 m  
1.89 in x 60 yd | 48 mm x 55 m

**STEEL ADHESION** 40 oz/in

**TOTAL THICKNESS** 3.6 mil

**SERVICE TEMPERATURE** -40°F to 176°F  
-40°C to 80°C



#### PE-M4535

##### All Weather Construction Seaming Tape

Use to seam and seal housewrap, insulated sheathing products and polyethylene vapor barriers

Colors: white, silver and red

1.89 in x 54.6 yd | 48 mm x 50 m

**STEEL ADHESION** 60 oz/in

**TOTAL THICKNESS** 3.38 mil

**SERVICE TEMPERATURE** -40°F to 148°F  
-40°C to 120°C



## Product Description:

**ThermaBarrier™** Thermal Insulation Seaming Tapes by EchoTape are available in three (3) varieties: Double-sided polyester film tape, White Polyethylene, and Metalized (Silver) Polyethylene.

Used extensively in commercial construction including metal building insulation applications, it is versatile enough to work in many other applications due to its cold weather performance features. Formulated with a proprietary cold weather adhesive, it is engineered to adhere to a wide range of building materials and surfaces including house wrap, exterior and rigid insulation, sheathing, vapor barriers and a variety of underlayments.

Using breakthrough technology, our exclusively formulated acrylic adhesives are engineered to meet the rigid requirements of contractors and builders working on residential and commercial buildings. Whether you're working in extreme weather conditions or simply need maximum performance, our specialty tapes combine exceptionally high shear strength with both high tack and cold weather properties, ensuring a secure, weather tight seal in virtually any environmental condition.

These specialty tapes exceed the highest standards for reliability, precision and superior results. From air sealing to patching, bonding or seaming our full line of tapes are designed for insulation applications for today's construction professionals.

## Application

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**Start with a clean surface.** Dust, dirt, oil, and debris will keep any tape from sticking, including double-sided and seaming tapes.

**Affix the Double-sided Tape.**

**Apply Pressure.** See below.

**Peel back the release liner.**

**Press the thermal insulation barrier / housewrap overlap into place using a squeegee or roller.**

**Seal the seams.** Ensure that the tape is wide enough to sufficiently cover the seam.

**Apply Pressure.** Pressure sensitive adhesive tape needs pressure to form a proper bond. Without it, the tape may gap, wrinkle or lift, all of which will allow unwanted air or water incursions.

Using a squeegee, roller or J-roller, apply firm pressure to the tape in upward and downward strokes, making sure to smooth any wrinkles or gaps. The appropriate amount of pressure will cause the aggressive adhesive on the seam tape to form a permanent bond within 72 hours.

**Consider Using a Tape Gun:** A tape gun allows you to apply the seaming tape more easily, quickly and evenly than by hand.

*Don't make the mistake of thinking that a tape gun replaces a roller or squeegee. It doesn't. You still need that additional pressure to really seal the overlap. It's a step most contractors skip, and it's almost always a costly or even litigious mistake.*

**Cut to appropriate length.**

## **DC-M194A**

# **All Weather/Cold Weather Double Sided Polyester Tape**

DC-M194A is a high performance double-sided polyester film (PET) adhesive tape, coated with a specially engineered acrylic adhesive designed to work exceptionally well in cold weather temperatures. Used extensively in commercial construction including metal building insulation applications, it is versatile enough to work in many other applications due to its cold weather performance features.

### **Application**

- Use for lap seals on laminated, reflective and pipe jacketing insulation
- Use to mount smooth surface substrates in freezers
- Use for permanently bonding foams, plastics, metals and composite materials.
- Use for insulation mounting

### **Features & Benefits**

- Hand tearable
- Hand or machine applied
- Excellent holding power
- Specially formulated cold weather adhesive
- Bonds well to a variety of surfaces
- PET carrier allows for UV resistance
- Performs well under a broad range of environmental conditions

## Storage & Usage Conditions

Store tape in its original packaging away from direct sunlight and in a cool and dry area. For optimum performance, tape should be used within 12 months of date of shipment. Tape works best when applied to a surface that is clean, dry and free of grease, oil or other contaminants.

## Sizes

1.41 in x 60 yd. | 36 mm x 55 m

1.41 in x 180 yd. | 36 mm x 165 m

1.41 in x 360 yd. | 36 mm x 330 m

## Technical Data

|                               |                                |
|-------------------------------|--------------------------------|
| Carrier                       | Polyester Film                 |
| Adhesive                      | Acrylic                        |
| Release Liner                 | Siliconized Paper              |
| Total Thickness               | 3.6 mils                       |
| Tensile                       | 7.7 lbs/in                     |
| Adhesion                      | 40 oz/in                       |
| Application Temperature Range | -4°F to 176°F (-20°C to 90°C)  |
| Service Temperature Range     | -40°F to 176°F (-40°C to 80°C) |
| Elongation                    | 75%                            |
| Color                         | Transparent                    |



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The information cited is in good faith and has been established from sources held to be secure and reliable. The values listed are typical properties. Individual rolls may vary slightly from these values. All ECHOtape products are warranted to be free of defects at time of shipment. Many factors can affect the use and performance of a product in a particular application and the user must, by test or otherwise, determine suitability for purpose; Edelstein makes no representation or warranty, express or implied, concerning any application and usage of its products. If ECHOtape product is proved to be defective, the exclusive remedy, shall be for Edelstein to replace the defective product. ECHOtape shall not otherwise be liable for loss or damages, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including but not limited to, contract, negligence, warranty or strict liability.



# DC-M155A, DC-M194A Tape

## Safety Data Sheet

|                                                                                                                                                                                                  |                                                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Company:</b><br>ECHOtape<br>1-800-461-8273                                                                                                                                                    | <b>Date:</b><br>May 22, 2015                                                                                                                                               |
| <b>SECTION 1: IDENTIFICATION</b>                                                                                                                                                                 |                                                                                                                                                                            |
| <b>Product Name</b>                                                                                                                                                                              | DC-M155A, DC-M194A                                                                                                                                                         |
| <b>Product Use</b>                                                                                                                                                                               | Bonding and Splicing a variety of Substrates                                                                                                                               |
| <b>SECTION 2: HAZARDS IDENTIFICATION</b>                                                                                                                                                         |                                                                                                                                                                            |
| Products should not represent a health or safety hazard under recommended or normal use. However misuse of these products may affect performance and present a potential health or safety hazard |                                                                                                                                                                            |
| <b>Hazard Designation</b>                                                                                                                                                                        | None Applicable                                                                                                                                                            |
| <b>Information pertaining to particular dangers for man and environment</b>                                                                                                                      | None Applicable                                                                                                                                                            |
| <b>Classification system</b>                                                                                                                                                                     | The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies. |
| <b>Additional Information</b>                                                                                                                                                                    | The product evidently does not contain any organically bonded halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.                                   |
| <b>SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS</b>                                                                                                                                         |                                                                                                                                                                            |
| <b>Backing</b>                                                                                                                                                                                   | Polyester                                                                                                                                                                  |
| <b>Adhesive</b>                                                                                                                                                                                  | Mixture of poly acrylic acid ester with terpen phenolic resin                                                                                                              |
| <b>Liner</b>                                                                                                                                                                                     | Double sided silicone coated paper                                                                                                                                         |
| <b>SECTION 4: FIRST AID MEASURES</b>                                                                                                                                                             |                                                                                                                                                                            |
| <b>General Information</b>                                                                                                                                                                       | No special measures required                                                                                                                                               |
| <b>Eye(s)</b>                                                                                                                                                                                    | No need for first aid is anticipated                                                                                                                                       |
| <b>Skin contact</b>                                                                                                                                                                              | No need for first aid is anticipated                                                                                                                                       |
| <b>Ingestion</b>                                                                                                                                                                                 | No need for first aid is anticipated                                                                                                                                       |
| <b>Inhalation</b>                                                                                                                                                                                | No need for first aid is anticipated                                                                                                                                       |
| <b>SECTION 5: FIRE HAZARDS</b>                                                                                                                                                                   |                                                                                                                                                                            |
| <b>Flash Point</b>                                                                                                                                                                               | Not applicable                                                                                                                                                             |
| <b>Suitable Extinguishing Agents</b>                                                                                                                                                             | CO <sub>2</sub> , extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam                                                           |
| <b>Special Hazards caused by Materials, its products of combustion or flue gases</b>                                                                                                             | Nitrogen Oxides (Nox)<br>Carbon monoxide (CO)                                                                                                                              |
| <b>Protective equipment</b>                                                                                                                                                                      | No special measures required                                                                                                                                               |
| <b>Additional information</b>                                                                                                                                                                    | None                                                                                                                                                                       |

# DC-M155A, DC-M194A Tape

## Safety Data Sheet

| SECTION 6: ACCIDENTAL RELEASE MEASURES                                   |                                                                                                                                    |
|--------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Person-related safety precautions                                        | Not required                                                                                                                       |
| Measures for environmental protection                                    | No special measures required                                                                                                       |
| Measures for cleaning / collecting                                       | Collect mechanically                                                                                                               |
| Additional information                                                   | No dangerous materials are released                                                                                                |
| SECTION 7: HANDLING AND STORAGE                                          |                                                                                                                                    |
| Information for safe handling                                            | No special measures required                                                                                                       |
| Information about protection against explosions and fires                | No special measures are required                                                                                                   |
| Requirements to be met by storerooms and containers                      | No special requirements                                                                                                            |
| Information about storage in one common storage facility                 | Not required                                                                                                                       |
| Further information about storage conditions                             | None                                                                                                                               |
| Storage class according to regulation on inflammable liquids             | None                                                                                                                               |
| SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION                         |                                                                                                                                    |
| Additional information about design of technical systems                 | No further data, see item 6                                                                                                        |
| Components with critical values that require monitoring at the workplace | The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. |
| Additional information                                                   | The lists that were valid during the compilation were used as a basis                                                              |
| General protective and hygienic measures                                 | The usual precautionary measures should be adhered to in handling the chemicals                                                    |
| Breathing Equipment                                                      | Not required                                                                                                                       |
| Eye Protection                                                           | Not required                                                                                                                       |
| Protections for hands                                                    | Not required                                                                                                                       |
| Body Protection                                                          | Not required                                                                                                                       |

# DC-M155A, DC-M194A Tape

## Safety Data Sheet

| SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES      |                                                                                                                                                                                                                                                                                                                                              |
|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Form                                             | Solid material                                                                                                                                                                                                                                                                                                                               |
| Colour                                           | Colourless                                                                                                                                                                                                                                                                                                                                   |
| Smell                                            | Odourless                                                                                                                                                                                                                                                                                                                                    |
| Melting Point / Melting Range                    | Not determined                                                                                                                                                                                                                                                                                                                               |
| Boiling Point / Boiling Range                    | Not determined                                                                                                                                                                                                                                                                                                                               |
| Flash Point                                      | Not applicable                                                                                                                                                                                                                                                                                                                               |
| In flammability (solid, gaseous)                 | Not applicable                                                                                                                                                                                                                                                                                                                               |
| Ignition Temperature                             | Not applicable                                                                                                                                                                                                                                                                                                                               |
| Self-In flammability                             | Product is not self igniting                                                                                                                                                                                                                                                                                                                 |
| Danger of Explosion                              | Product is not explosive                                                                                                                                                                                                                                                                                                                     |
| Density                                          | Not determined                                                                                                                                                                                                                                                                                                                               |
| Solubility in / Miscibility with water           | Unsoluble                                                                                                                                                                                                                                                                                                                                    |
| Organic Solvents                                 | <1%                                                                                                                                                                                                                                                                                                                                          |
| Solids Content                                   | 100%                                                                                                                                                                                                                                                                                                                                         |
| SECTION 10: STABILITY AND REACTIVITY             |                                                                                                                                                                                                                                                                                                                                              |
| Thermal decomposition / Conditions to be avoided | No decomposition if used accordingly                                                                                                                                                                                                                                                                                                         |
| Dangerous Reactions                              | No dangerous reactions known                                                                                                                                                                                                                                                                                                                 |
| Dangerous products of composition                | No dangerous decompositions products known                                                                                                                                                                                                                                                                                                   |
| SECTION 11: TOXICOLOGICAL INFORMATION            |                                                                                                                                                                                                                                                                                                                                              |
| Primary irritant on skin                         | No irritant effect                                                                                                                                                                                                                                                                                                                           |
| Primary irritant on eyes                         | No irritant effect                                                                                                                                                                                                                                                                                                                           |
| Sensitization                                    | No sensitizing effect known                                                                                                                                                                                                                                                                                                                  |
| Additional Toxicological Information             | The product is not subject to classification according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version: When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided us. |
| SECTION 12: ECOLOGICAL INFORMATION               |                                                                                                                                                                                                                                                                                                                                              |
| General Notes                                    | Water hazard class 0 (self-assessment): generally not hazardous for water                                                                                                                                                                                                                                                                    |



# DC-M155A, DC-M194A Tape

## Safety Data Sheet

| SECTION 13: DISPOSAL CONSIDERATIONS                                                                                                                                                               |                                                                                                                                                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Recommendation                                                                                                                                                                            | Smaller quantities can be disposed with household garbage                                                                                                                                        |
| Unclean Packaging Recommendation                                                                                                                                                                  | Disposal must be made according to official regulations                                                                                                                                          |
| SECTION 14: TRANSPORT INFORMATION                                                                                                                                                                 |                                                                                                                                                                                                  |
| Transport / Additional Information                                                                                                                                                                | Not Dangerous according to the above specifications                                                                                                                                              |
| SECTION 15: REGULATORY INFORMATION                                                                                                                                                                |                                                                                                                                                                                                  |
| Designation according to EC guidelines                                                                                                                                                            | Observe the normal safety regulations when handling chemicals. The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV) |
| SECTION 16: OTHER INFORMATION                                                                                                                                                                     |                                                                                                                                                                                                  |
| These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. |                                                                                                                                                                                                  |

### Warranty:

All ECHOtape products are warranted to be free of defects at the time of shipment from our plant. ECHOtape makes no warranty expressed or implied concerning the usage of its tapes. The user shall assume all risks and liability for any loss, damage or expense arising directly or indirectly as a result of the tapes.

## **PE-M4535**

# **All Weather Construction Seaming Tape**

PE-M4535 is a next generation seaming tape for the construction professional looking for superior performance. Formulated with a proprietary cold weather adhesive, it is engineered to adhere to a wide range of building materials and surfaces including house wrap, exterior and rigid insulation, sheathing, vapor barriers and a variety of underlayments. Made from an advanced polyester backing, it is extremely strong and easy to apply. Available in red, silver and white, it is a versatile product used in a wide variety of building envelope sealing applications.

## **Application**

- Use to seam the building envelope
- Use to seam house wrap
- Use to seam a variety of insulation including polyisocyanurate and reflective insulation
- Use to seam exterior sheathing
- Use to seam vapor barriers including polyethylene films
- Use to seam a variety of flooring and roofing underlayments

## **Features & Benefits**

- Tape is hand tearable and easy to use in the field
- Strong and durable holding power
- Excellent cold temperature adhesion to -4°F
- Minimum 90 day UV resistance
- Instant tack on a wide variety of materials that strengthens over time
- Made from an advanced polyester film (PET)

- Water and moisture resistant
- Good conformability to irregular surfaces
- Colors allow for easy inspection

## Storage & Usage Conditions

Store tape in its original packaging away from direct sunlight and in a cool and dry area. For optimum performance, tape should be used within 12 months of date of shipment. Tape works best when applied to a surface that is clean, dry and free of grease, oil or other contaminants.

## Sizes

1.89 in x 54.6 yd | 48 mm x 50 m

## Technical Data

|                         |                                 |
|-------------------------|---------------------------------|
| Carrier                 | PET Film                        |
| Adhesive                | Acrylic                         |
| Total Thickness         | 3.38 mils                       |
| Tensile                 | 20 lbs/in                       |
| Adhesion                | 60 oz/in                        |
| Application Temperature | -4°F to 105°F (-20°C to 40°C)   |
| Service Temperature     | -40°F to 148°F (-40°C to 120°C) |
| Color                   | White, silver, red              |



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The information cited is in good faith and has been established from sources held to be secure and reliable. The values listed are typical properties. Individual rolls may vary slightly from these values. All ECHOtape products are warranted to be free of defects at time of shipment. Many factors can affect the use and performance of a product in a particular application and the user must, by test or otherwise, determine suitability for purpose; Edelstein makes no representation or warranty, express or implied, concerning any application and usage of its products. If ECHOtape product is proved to be defective, the exclusive remedy, shall be for Edelstein to replace the defective product. ECHOtape shall not otherwise be liable for loss or damages, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including but not limited to, contract, negligence, warranty or strict liability.

|                                                                                                                                                                                                                                              |                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Company:<br>ECHOtape<br>1-800-461-8273                                                                                                                                                                                                       | Date:<br>October, 2018                                                                                                                                                     |
| <b>SECTION 1: IDENTIFICATION</b>                                                                                                                                                                                                             |                                                                                                                                                                            |
| Product Name                                                                                                                                                                                                                                 | PE-M4520, PE-M4530, PE-M4531,<br>PE-M4535, PE-M4538                                                                                                                        |
| Product Use                                                                                                                                                                                                                                  | Bonding a variety of substrates                                                                                                                                            |
| <b>SECTION 2: HAZARDS IDENTIFICATION</b><br>Products should not represent a health or safety hazard under recommended or normal use. However misuse of these products may affect performance and present a potential health or safety hazard |                                                                                                                                                                            |
| Hazard Designation                                                                                                                                                                                                                           | None Applicable                                                                                                                                                            |
| Information pertaining to particular dangers for man and environment                                                                                                                                                                         | None Applicable                                                                                                                                                            |
| Classification system                                                                                                                                                                                                                        | The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies. |
| Additional Information                                                                                                                                                                                                                       | The product evidently does not contain any organically bonded halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.                                   |
| <b>SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS</b>                                                                                                                                                                                     |                                                                                                                                                                            |
| Backing                                                                                                                                                                                                                                      | Polyester                                                                                                                                                                  |
| Adhesive                                                                                                                                                                                                                                     | Acrylic solvent                                                                                                                                                            |
| Liner                                                                                                                                                                                                                                        | N/A                                                                                                                                                                        |
| <b>SECTION 4: FIRST AID MEASURES</b>                                                                                                                                                                                                         |                                                                                                                                                                            |
| General Information                                                                                                                                                                                                                          | No special measures required                                                                                                                                               |
| Eye(s)                                                                                                                                                                                                                                       | No need for first aid is anticipated                                                                                                                                       |
| Skin contact                                                                                                                                                                                                                                 | No need for first aid is anticipated                                                                                                                                       |
| Ingestion                                                                                                                                                                                                                                    | No need for first aid is anticipated                                                                                                                                       |
| Inhalation                                                                                                                                                                                                                                   | No need for first aid is anticipated                                                                                                                                       |
| <b>SECTION 5: FIRE HAZARDS</b>                                                                                                                                                                                                               |                                                                                                                                                                            |
| Flash Point                                                                                                                                                                                                                                  | Not applicable                                                                                                                                                             |
| Suitable Extinguishing Agents                                                                                                                                                                                                                | CO <sub>2</sub> gas, sand/earth, regular foam, water                                                                                                                       |
| Special Hazards caused by Materials, its products of combustion or flue gases                                                                                                                                                                | Nitrogen oxides (NO <sub>x</sub> )<br>Carbon monoxide                                                                                                                      |
| Protective equipment                                                                                                                                                                                                                         | Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes                                                                      |
| Additional information                                                                                                                                                                                                                       | None                                                                                                                                                                       |

| SECTION 6: ACCIDENTAL RELEASE MEASURES                                   |                                                                                                                                    |
|--------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Person-related safety precautions                                        | Not required                                                                                                                       |
| Measures for environmental protection                                    | No special measures required                                                                                                       |
| Measures for cleaning / collecting                                       | Collect mechanically                                                                                                               |
| Additional information                                                   | No dangerous materials are released                                                                                                |
| SECTION 7: HANDLING AND STORAGE                                          |                                                                                                                                    |
| Information for safe handling                                            | No special measures required                                                                                                       |
| Information about protection against explosions and fires                | No special measures required                                                                                                       |
| Requirements to be met by storerooms and containers                      | No special requirements                                                                                                            |
| Information about storage in one common storage facility                 | Not required                                                                                                                       |
| Further information about storage conditions                             | None                                                                                                                               |
| Storage class according to regulation on inflammable liquids             | None                                                                                                                               |
| SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION                         |                                                                                                                                    |
| Additional information about design of technical systems                 | No further data, see item 6                                                                                                        |
| Components with critical values that require monitoring at the workplace | The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. |
| Additional information                                                   | The lists that were valid during the compilation were used as a basis                                                              |
| General protective and hygienic measures                                 | The usual precautionary measures should be adhered to in handling the chemicals                                                    |
| Breathing Equipment                                                      | Not required                                                                                                                       |
| Eye Protection                                                           | Not required                                                                                                                       |
| Protections for hands                                                    | Not required                                                                                                                       |
| Body Protection                                                          | Not required                                                                                                                       |

| SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES      |                                                                                                                                                                                                                                                                                                                                               |
|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Form                                             | Solid material                                                                                                                                                                                                                                                                                                                                |
| Colour                                           | Colourless                                                                                                                                                                                                                                                                                                                                    |
| Smell                                            | Odourless                                                                                                                                                                                                                                                                                                                                     |
| Melting Point / Melting Range                    | Not determined                                                                                                                                                                                                                                                                                                                                |
| Boiling Point / Boiling Range                    | Not determined                                                                                                                                                                                                                                                                                                                                |
| Flash Point                                      | Not applicable                                                                                                                                                                                                                                                                                                                                |
| In flammability (solid, gaseous)                 | Not applicable                                                                                                                                                                                                                                                                                                                                |
| Ignition Temperature                             | Not determined                                                                                                                                                                                                                                                                                                                                |
| Self-In flammability                             | Product is not self igniting                                                                                                                                                                                                                                                                                                                  |
| Danger of Explosion                              | Product is not explosive                                                                                                                                                                                                                                                                                                                      |
| Density                                          | Not determined                                                                                                                                                                                                                                                                                                                                |
| Solubility in / Miscibility with water           | Insoluble                                                                                                                                                                                                                                                                                                                                     |
| Organic Solvents                                 | <1%                                                                                                                                                                                                                                                                                                                                           |
| Solids Content                                   | 100%                                                                                                                                                                                                                                                                                                                                          |
| SECTION 10: STABILITY AND REACTIVITY             |                                                                                                                                                                                                                                                                                                                                               |
| Thermal decomposition / Conditions to be avoided | No decomposition if used accordingly                                                                                                                                                                                                                                                                                                          |
| Dangerous Reactions                              | No dangerous reactions known                                                                                                                                                                                                                                                                                                                  |
| Dangerous products of decomposition              | No dangerous decomposition products known                                                                                                                                                                                                                                                                                                     |
| SECTION 11: TOXICOLOGICAL INFORMATION            |                                                                                                                                                                                                                                                                                                                                               |
| Primary irritant on skin                         | No irritant effect                                                                                                                                                                                                                                                                                                                            |
| Primary irritant on eyes                         | No irritant effect                                                                                                                                                                                                                                                                                                                            |
| Sensitization                                    | No sensitizing effect known                                                                                                                                                                                                                                                                                                                   |
| Additional Toxicological Information             | This product is not subject to classification according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version: When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided us. |
| SECTION 12: ECOLOGICAL INFORMATION               |                                                                                                                                                                                                                                                                                                                                               |
| General Notes                                    | Water hazard class 0 (self-assessment):<br>generally not hazardous for water                                                                                                                                                                                                                                                                  |

**SECTION 13: DISPOSAL CONSIDERATIONS**

|                                         |                                                                  |
|-----------------------------------------|------------------------------------------------------------------|
| <b>Product Recommendation</b>           | <b>Smaller quantities can be disposed with household garbage</b> |
| <b>Unclean Packaging Recommendation</b> | <b>Disposal must be made according to official regulations</b>   |

**SECTION 14: TRANSPORT INFORMATION**

|                                           |                                                            |
|-------------------------------------------|------------------------------------------------------------|
| <b>Transport / Additional Information</b> | <b>Not Dangerous according to the above specifications</b> |
|-------------------------------------------|------------------------------------------------------------|

**SECTION 15: REGULATORY INFORMATION**

|                                               |                                                                                                                                                                                                         |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Designation according to EC guidelines</b> | <b>Observe the normal safety regulations when handling chemicals. The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV)</b> |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**SECTION 16: OTHER INFORMATION**

**These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.**