

MasterSil 151Med Master Bond Polymer System

Two component, biocompatible silicone compound for potting and encapsulation

Key Features

- ✓ Meets USP Class VI specifications
- ✓ Passes ISO 10993-5 for cytotoxicity
- ✓ High flexibility
- ✓ Optically clear
- ✓ Electrically insulative
- ✓ Low viscosity

Product Description

Master Bond MasterSil 151Med is a two component, low viscosity silicone compound for high performance potting and encapsulation. MasterSil 151Med is an addition cured system and does not require exposure to air for complete cross-linking. It has a convenient ten to one mix ratio by weight, and will not outgas while curing. It is 100% solids and contains no solvents. MasterSil 151Med has an exceptionally low viscosity enabling it to be highly desirable for potting and encapsulation. First and foremost, MasterSil 151Med, as is true with silicones in general, offers remarkable flexibility and high temperature resistance. It has superb electrical insulation properties. The system's flexibility allows it to withstand severe thermal cycling and resist vibration and shock. MasterSil 151Med resists gamma radiation, ETO and various chemical sterilants. These properties enable this system to be well suited for medical applications involving optical and electrical components. It can also be used for encapsulating electronic circuitry,

LEDs, optical fibers and other optical components in a wide array of medical devices. MasterSil 151Med is transparent and has a service temperature range of -65°F to +400°F. It fully passes USP Class VI testing for biocompatibility.

Product Advantages

- Addition cured; no by-products released during cure; does not require air for curing
- Low exotherm; very long pot life; low viscosity ideal for potting and encapsulation
- Readily cures at ambient temperatures or faster cure at elevated temperatures
- Can cure in thicknesses beyond 1 inch
- Very low shrinkage upon cure
- Excellent optical clarity and transmission properties
- Meets USP Class VI specification
- Superior electrical insulation properties; highly resistant to water

Typical Properties

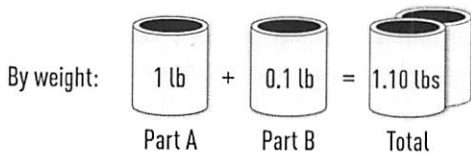
Bond shear strength, aluminum to aluminum, 75°F	>50 psi
Tensile strength, 75°F	800-900 psi
Elongation, 75°F	120-150%
Hardness, 75°F	40-50 Shore A
Dielectric constant, 75°F, 100Hz	2.7
Dielectric strength, 75°F (1/8 inch thick test specimen)	450 volts/mil
Volume resistivity, 75°F	10 ¹⁴ ohm-cm
Refractive index, 75°F	1.43
Coefficient of thermal expansion, 75°F	220-240 in/in x 10 ⁻⁶ /°C
Service temperature range	-65°F to +400°F [-54°C to 204°C]

Mixing and Curing

Shelf life at 75°F, in original unopened containers	6 months
Mixing ratio, Parts A to B	10:1 by weight
Viscosity of Part A, 75°F	2,000-4,000 cps
Viscosity of Part B, 75°F	50-150 cps
Working life after mixing, 75°F; 100 gram batch	2-4 hours
Cure schedule options	
75°F	24-48 hours
200°F	1-2 hours

Preparation of Adhesive & Bonding Surfaces

MasterSil 151Med is prepared by thoroughly mixing Part A with Part B in a ten to one mix ratio by weight.



Mixing should be done slowly to avoid entrapping air. The working life of a mixed 100 gram batch is approximately 2-4 hours. All bonding surfaces should be roughened carefully cleaned, degreased and dried to obtain maximum bond strength.

Adhesive Application

MasterSil 151Med is most often used as a potting and encapsulation system. Its low viscosity allows it to flow into very small openings. It can cure in up to and beyond 1 inch in thickness. It is usually not necessary to vacuum degas this system because bubbles typically come to the surface. If degassing is employed it should be cyclical in nature with pulling and relaxing of the vacuum until frothing ceases. When bonding and sealing, the system should be pressed together with just enough pressure to maintain intimate contact during cure. Care should be taken not to squeeze out the adhesive during fixturing.

Cure

MasterSil 151Med can be cured at room temperature or at elevated temperatures as desired. At room temperature, MasterSil 151Med will cure in 24-48 hours. Faster cures can be realized at elevated temperatures, e.g. 1-2 hours at 200°F. To optimize the properties and ensure biocompatibility, the recommended cure schedule is overnight at room temperature, followed by 1 hour at 150-200°F. Remove excess adhesive promptly before it hardens with a spatula. Then wipe with a rag and solvent, such as

toluene or acetone. It will fully cure without exposure to air.

Cure Inhibition

There are substrates and chemicals that will inhibit the cure of the MasterSil 151Med system. These include the following:

- Silicone RTVs cured with metallic salts
- PVC plasticizers
- Butyl elastomers
- Chlorinated rubber compounds
- Sulfur containing materials
- Amines

A lack of cure at the interface of the MasterSil 151Med and the substrate is an indication of cure inhibition. If inhibition is observed after the recommended cure cycle, the substrate may require a barrier coating to prevent inhibition.

Packaging

Product available in:

- 1/2 Pint kits
- Pint kits
- Quart kits
- Gallon kits
- 5 Gallon kits



Specialty packaging is also available in gun kits.

Handling and Storage

All silicones should be used with good ventilation and skin contact should be avoided. For safe handling details, please consult the product MSDS. Optimum storage is at or below 75°F in closed containers. No special storage conditions are necessary. Containers should, however, be kept closed when not in use to avoid contamination. Cleanup of spills and equipment is readily achieved with aromatic or ketone solvents employing proper precautions of ventilation and flammability.

Certifications



Not to Be Used for Specification Purposes

The values contained herein are considered typical properties only and are not intended to be used as specification limits. For assistance in preparing specifications, please contact Master Bond technical support for further details.

Notice

Master Bond believes the information on the data sheets is reliable and accurate as is technical advice provided by the company. Master Bond makes no warranties, expressed or implied, regarding the accuracy of the information, and assumes no liability regarding the handling and use of this product.

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/09/2022

Reviewed on 03/09/2022

1 Identification

- **Product identifier**
- **Trade name:** *MasterSil 151MED (Part-A)*
- **Article number:** *Silicone elastomer resin*
- **Relevant identified uses of the substance or mixture and uses advised against**
Recommended use - Adhesives, Sealants, Coatings
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
*Master Bond Inc.
154 Hobart Street
USA-Hackensack, NJ 07601
Phone: 201-343-8983*
- **Information department:**
Product safety department
- **Emergency phone number :** *(CHEMTREC)
(North America) : 800-424-9300
(International) : 703-527-3887*



2 Hazard(s) identification

- **Classification of the substance or mixture**
Acute Tox. 4 H302 Harmful if swallowed.
- **Label elements**
- **GHS label elements**
The substance is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS07

- **Signal word** *Warning*
- **Hazard statements**
Harmful if swallowed.
- **Precautionary statements**
*Avoid breathing mist/vapours/spray.
Do not get in eyes, on skin, or on clothing.
Wash thoroughly after handling.
Wash contaminated clothing thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves / eye protection / face protection.
If swallowed: Call a poison center/doctor if you feel unwell.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Take off contaminated clothing.
Store in a closed container.*

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Safety Data Sheet

acc. to OSHA HCS

Printing date 03/09/2022

Reviewed on 03/09/2022

Trade name: MasterSil 151MED (Part-A)

(Contd. of page 1)

- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



Health = 1
Fire = 0
Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**

HEALTH	1
FIRE	0
REACTIVITY	0

Health = 1
Fire = 0
Reactivity = 0

3 Composition/information on ingredients

- **Chemical characterization: Substances**
- **CAS No. Description**
Organopolysiloxane mixture (CAS no. Trade secret) (60-100%)
- **Identification number(s)** -

4 First-aid measures

- **Description of first aid measures**
- **After inhalation:**
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
Seek medical treatment.
- **After skin contact:**
Seek medical treatment.
Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
Seek medical treatment.
- **After swallowing:**
Drink copious amounts of water and provide fresh air. Immediately call a doctor.
Seek medical treatment.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Advice for firefighters**
- **Protective equipment:**
Wear fully protective suit.
Mouth respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Wear protective clothing.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

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Safety Data Sheet

acc. to OSHA HCS

Printing date 03/09/2022

Reviewed on 03/09/2022

Trade name: MasterSil 151MED (Part-A)

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- **Methods and material for containment and cleaning up:**
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No information available.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
- **Breathing equipment:** Use suitable respiratory protective device in case of insufficient ventilation.
- **Protection of hands:**



Protective gloves

- **Material of gloves** Chemical resistant gloves.
- **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**



Safety glasses recommended.

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Safety Data Sheet

acc. to OSHA HCS

Printing date 03/09/2022

Reviewed on 03/09/2022

Trade name: MasterSil 151MED (Part-A)

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9 Physical and chemical properties

· *Information on basic physical and chemical properties*

· *General Information*

· *Appearance:*

Form:	Liquid
Color:	Colorless
Odor:	Odorless
Odor threshold:	Not available

· *pH-value:* Not available.

· *Change in condition*

Melting point/Melting range:	Not available
Boiling point/Boiling range:	Not available

· *Flash point:* 105 °C (221 °F)

· *Flammability (solid, gaseous):* Not available

· *Ignition temperature:* Not available

· *Decomposition temperature:* Not available

· *Auto igniting:* Not available

· *Danger of explosion:* Not available

· *Explosion limits:*

Lower:	Not available
Upper:	Not available

· *Vapor pressure:* Not available

· *Density:*

Relative density at 20 °C (68 °F)	0.97 g/cm ³
Vapor density	Not available
Evaporation rate	Not available

· *Solubility in / Miscibility with*

Water: Insoluble.

· *Partition coefficient (n-octanol/water):* Not available

· *Viscosity:*

Dynamic:	Not available
Kinematic:	Not available

10 Stability and reactivity

- *Reactivity* No further relevant information available.
- *Conditions to avoid* No further relevant information available.
- *Incompatible materials:* No further relevant information available.
- *Hazardous decomposition products:* Carbon monoxide

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acc. to OSHA HCS

Printing date 03/09/2022

Reviewed on 03/09/2022

Trade name: MasterSil 151MED (Part-A)

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11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No information available
- **on the eye:** No information available
- **Sensitization:** Sensitization possible through inhalation and contact with skin.
- **Additional toxicological information:**
- **Carcinogenic categories**

· IARC (International Agency for Research on Cancer)

Substance is not listed.

· NTP (National Toxicology Program)
--

Substance is not listed.

· OSHA-Ca (Occupational Safety & Health Administration)
--

Substance is not listed.

12 Ecological information

- **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.**
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
- **Must not be disposed of together with household garbage. Do not allow product to reach sewage system.**
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- | |
|---|
| · UN-Number |
| · DOT, ADR, IMDG, IATA : Not regulated |
| · UN proper shipping name |
| · DOT, ADR, IMDG, IATA : Not regulated |
| · Transport hazard class(es) |
| · DOT, ADR, IMDG, IATA : Not regulated |
| · Packing group |
| · DOT, ADR, IMDG, IATA : Not regulated |

US

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Reviewed on 03/09/2022

Trade name: MasterSil 151MED (Part-A)

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15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

- Section 355 (extremely hazardous substances):

Substance is not listed.

- Section 313 (Specific toxic chemical listings):

Substance is not listed.

- TSCA (Toxic Substances Control Act):

Substance is listed.

Active

- Proposition 65

- Chemicals known to cause cancer:

Substance is not listed.

- Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

- Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

- Chemicals known to cause developmental toxicity:

Substance is not listed.

- Carcinogenic categories

- EPA (Environmental Protection Agency)

Substance is not listed.

- TLV (Threshold Limit Value)

Substance is not listed.

- NIOSH-Ca (National Institute for Occupational Safety and Health)

Substance is not listed.

- GHS label elements

The substance is classified and labeled according to the Globally Harmonized System (GHS).

- Hazard pictograms



GHS07

- Signal word Warning

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.

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acc. to OSHA HCS

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Trade name: MasterSil 151MED (Part-A)

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· **Department issuing SDS:** Product safety department

· **Contact:** Master Bond Inc.

· **Date of preparation / last revision** 03/09/2022 / -

· **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Acute Tox. 4: Acute toxicity – Category 4

US

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/09/2022

Reviewed on 03/09/2022

1 Identification

- **Product identifier**

- **Trade name:** *MasterSil 151MED (Part-B)*



- **Article number:** *Silicone elastomer curing agent*

- **Relevant identified uses of the substance or mixture and uses advised against**
Recommended use - Adhesives, Sealants, Coatings

- **Details of the supplier of the safety data sheet**

- **Manufacturer/Supplier:**

*Master Bond Inc.
154 Hobart Street
USA-Hackensack, NJ 07601
Phone: 201-343-8983*

- **Information department:**

Product safety department

Emergency phone number : (CHEMTREC)

(North America) : 800-424-9300

(International) : 703-527-3887

2 Hazard(s) identification

- **Classification of the substance or mixture**

Acute Tox. 4 H302 Harmful if swallowed.

Acute Tox. 4 H312 Harmful in contact with skin.

- **Label elements**

- **GHS label elements**

The substance is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS07

- **Signal word** *Warning*

- **Hazard statements**

Harmful if swallowed or in contact with skin.

- **Precautionary statements**

Avoid breathing mist/vapours/spray.

Do not get in eyes, on skin, or on clothing.

Wash thoroughly after handling.

Wash hands thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Wear protective gloves / eye protection / face protection.

If swallowed: Call a poison center/doctor if you feel unwell.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

If skin irritation or rash occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

Store in a closed container.

(Contd. on page 2)

US

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/09/2022

Reviewed on 03/09/2022

Trade name: MasterSil 151MED (Part-B)

(Contd. of page 1)

- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**

HEALTH	1	Health = 1
FIRE	1	Fire = 1
REACTIVITY	1	Reactivity = 1

3 Composition/information on ingredients

- **Chemical characterization: Substances**
- **CAS No. Description**
Organopolysiloxane mixture (CAS no. Trade secret) (60-100%)
- **Identification number(s) -**

4 First-aid measures

- **Description of first aid measures**
- **After inhalation:**
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
Seek medical treatment.
- **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
Seek medical treatment.
- **After eye contact:**
Rinse opened eye for several minutes under running water. Then consult a doctor.
Seek medical treatment.
- **After swallowing:**
Do not induce vomiting; immediately call for medical help.
Seek medical treatment.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Advice for firefighters**
- **Protective equipment:** Wear personal protective equipments.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Do not allow product to reach sewage system or any water course.

(Contd. on page 3)

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/09/2022

Reviewed on 03/09/2022

Trade name: MasterSil 151MED (Part-B)

(Contd. of page 2)

- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No information available.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
- **Breathing equipment:** Use suitable respiratory protective device in case of insufficient ventilation.
- **Protection of hands:**



Protective gloves

- **Material of gloves** Chemical resistant gloves.
- **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**



Safety glasses recommended.

US

(Contd. on page 4)

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/09/2022

Reviewed on 03/09/2022

Trade name: MasterSil 151MED (Part-B)

(Contd. of page 3)

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form:	Liquid
Color:	Colorless
Odor:	Odorless
Odor threshold:	Not available

· **pH-value:** Not available.

· **Change in condition**

Melting point/Melting range:	Not available
Boiling point/Boiling range:	Not available

· **Flash point:** 94 °C (201.2 °F)

· **Flammability (solid, gaseous):** Not available

· **Ignition temperature:** Not available

· **Decomposition temperature:** Not available

· **Auto igniting:** Not available

· **Danger of explosion:** Not available

· **Explosion limits:**

Lower:	Not available
Upper:	Not available

· **Vapor pressure:** Not available

· **Density:**

Relative density at 20 °C (68 °F)	0.98 g/cm ³
Vapor density	Not available
Evaporation rate	Not available

· **Solubility in / Miscibility with**

Water: Not miscible or difficult to mix.

· **Partition coefficient (n-octanol/water):** Not available

· **Viscosity:**

Dynamic:	Not available
Kinematic:	Not available

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** Acidic, basic or oxidizing materials.

US

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Safety Data Sheet

acc. to OSHA HCS

Printing date 03/09/2022

Reviewed on 03/09/2022

Trade name: MasterSil 151MED (Part-B)

(Contd. of page 4)

11 Toxicological information

- Information on toxicological effects
- Acute toxicity:
- Primary irritant effect:
- on the skin: No information available
- on the eye: No information available
- Sensitization: No data available
- Additional toxicological information:
- Carcinogenic categories

· IARC (International Agency for Research on Cancer)
--

Substance is not listed.

· NTP (National Toxicology Program)

Substance is not listed.

· OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

12 Ecological information

- 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.
- Other adverse effects No further relevant information available.

13 Disposal considerations

- Waste treatment methods
- Recommendation:
- Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.

14 Transport information

· UN-Number
· DOT, ADR, IMDG, IATA : Not regulated

· UN proper shipping name
· DOT, ADR, IMDG, IATA : Not regulated

· Transport hazard class(es)
· DOT, ADR, IMDG, IATA : Not regulated

· Packing group
· DOT, ADR, IMDG, IATA : Not regulated

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Trade name: MasterSil 151MED (Part-B)

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15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

- Section 355 (extremely hazardous substances):

Substance is not listed.

- Section 313 (Specific toxic chemical listings):

Substance is not listed.

- TSCA (Toxic Substances Control Act):

Substance is listed.

Active

- Proposition 65

- Chemicals known to cause cancer:

Substance is not listed.

- Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

- Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

- Chemicals known to cause developmental toxicity:

Substance is not listed.

- Carcinogenic categories

- EPA (Environmental Protection Agency)

Substance is not listed.

- TLV (Threshold Limit Value)

Substance is not listed.

- NIOSH-Ca (National Institute for Occupational Safety and Health)

Substance is not listed.

- GHS label elements

The substance is classified and labeled according to the Globally Harmonized System (GHS).

- Hazard pictograms



GHS07

- Signal word Warning

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.

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Trade name: MasterSil 151MED (Part-B)

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· **Department issuing SDS:** Product safety department

· **Contact:** Master Bond Inc.

· **Date of preparation / last revision** 03/09/2022 / -

· **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Acute Tox. 4: Acute toxicity – Category 4

US