

# Safety Data Sheet

## acc. to OSHA HCS

Printing date 01/06/2020

Reviewed on 01/06/2020

### 1 Identification

- **Product identifier**
- **Trade name: MXV Series**
- **Application of the substance / the mixture** Silicone Void and Cavity Filler
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Novagard Solutions Inc  
5109 Hamilton Avenue  
CLEVELAND, OH 44114  
USA
- **Information department:** R&D Department
- **Emergency telephone number:**  
CHEMTREC 1-800-424-9300 (USA)  
+1 703-741-5970 (International)

### 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS08 Health hazard

Repr. 1B H360 May damage fertility or the unborn child.

- **Label elements**
- **GHS label elements**  
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS08

- **Signal word** Danger
- **Hazard-determining components of labeling:**  
dibutyltin dilaurate
- **Hazard statements**  
May damage fertility or the unborn child.
- **Precautionary statements**  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Wear protective gloves/protective clothing/eye protection/face protection.  
IF exposed or concerned: Get medical advice/attention.  
Store locked up.  
Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



Health = 0  
Fire = 1  
Reactivity = 0

(Contd. on page 2)

US

# Safety Data Sheet

acc. to OSHA HCS

Printing date 01/06/2020

Reviewed on 01/06/2020

Trade name: MXV Series

(Contd. of page 1)

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

|            |   |                |
|------------|---|----------------|
| HEALTH     | 0 | Health = 0     |
| FIRE       | 1 | Fire = 1       |
| REACTIVITY | 0 | Reactivity = 0 |

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization: Mixture**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

|            |   |            |
|------------|---|------------|
| 22984-54-9 | butan-2-one O,O',O''-(methylsilylydyne)trioxime | 3.2–3.6%   |
| 556-67-2   | octamethylcyclotetrasiloxane                    | 0.45–0.55% |
| 77-58-7    | dibutyltin dilaurate                            | 0.1–0.3%   |

### 4 First-aid measures

- **Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.

(Contd. on page 3)

US

# Safety Data Sheet

## acc. to OSHA HCS

Printing date 01/06/2020

Reviewed on 01/06/2020

Trade name: MXV Series

(Contd. of page 2)

- **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

- **Protective Action Criteria for Chemicals**

- **PAC-1:**

|            |  |                       |
|------------|--|-----------------------|
| 70131-67-8 | Poly(dimethylsiloxane), hydroxy terminated | 190 mg/m <sup>3</sup> |
| 919-30-2   | 3-aminopropyltriethoxysilane               | 1.9 mg/m <sup>3</sup> |
| 13822-56-5 | 3-(trimethoxysilyl)propylamine             | 30 mg/m <sup>3</sup>  |
| 556-67-2   | octamethylcyclotetrasiloxane               | 30 ppm                |
| 77-58-7    | dibutyltin dilaurate                       | 1.1 mg/m <sup>3</sup> |

- **PAC-2:**

|            |  |                         |
|------------|--|-------------------------|
| 70131-67-8 | Poly(dimethylsiloxane), hydroxy terminated | 2,100 mg/m <sup>3</sup> |
| 919-30-2   | 3-aminopropyltriethoxysilane               | 21 mg/m <sup>3</sup>    |
| 13822-56-5 | 3-(trimethoxysilyl)propylamine             | 330 mg/m <sup>3</sup>   |
| 556-67-2   | octamethylcyclotetrasiloxane               | 68 ppm                  |
| 77-58-7    | dibutyltin dilaurate                       | 8 mg/m <sup>3</sup>     |

- **PAC-3:**

|            |  |                          |
|------------|--|--------------------------|
| 70131-67-8 | Poly(dimethylsiloxane), hydroxy terminated | 13,000 mg/m <sup>3</sup> |
| 919-30-2   | 3-aminopropyltriethoxysilane               | 350 mg/m <sup>3</sup>    |
| 13822-56-5 | 3-(trimethoxysilyl)propylamine             | 2,000 mg/m <sup>3</sup>  |
| 556-67-2   | octamethylcyclotetrasiloxane               | 130 ppm                  |
| 77-58-7    | dibutyltin dilaurate                       | 48 mg/m <sup>3</sup>     |

## 7 Handling and storage

- **Handling:**

- **Precautions for safe handling** Open and handle receptacle with care.

- **Information about protection against explosions and fires:**

Keep respiratory protective device available.

- **Conditions for safe storage, including any incompatibilities**

- **Storage:**

- **Requirements to be met by storerooms and receptacles:** No special requirements.

- **Information about storage in one common storage facility:** Not required.

- **Further information about storage conditions:** Keep receptacle tightly sealed.

- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

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

- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

(Contd. on page 4)

US

# Safety Data Sheet

acc. to OSHA HCS

Printing date 01/06/2020

Reviewed on 01/06/2020

Trade name: MXV Series

(Contd. of page 3)

At this time, the other constituents have no known exposure limits.

### 556-67-2 octamethylcyclotetrasiloxane

WEEL Long-term value: 10\* ppm  
\*OARS WEEL

### 77-58-7 dibutyltin dilaurate

PEL Long-term value: 0.1 mg/m<sup>3</sup>  
as Sn

REL Long-term value: 0.1 mg/m<sup>3</sup>  
as Sn, Skin

TLV Short-term value: 0.2 mg/m<sup>3</sup>  
Long-term value: 0.1 mg/m<sup>3</sup>  
as Sn; Skin

- **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.  
Wash hands before breaks and at the end of work.  
Store protective clothing separately.
- **Breathing equipment:** Not required.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Goggles recommended during refilling.

## 9 Physical and chemical properties

### · Information on basic physical and chemical properties

#### · General Information

#### · Appearance:

Form:

Pasty

Color:

According to product specification

#### · Odor:

Mild

#### · Odor threshold:

Not determined.

(Contd. on page 5)

US

# Safety Data Sheet

## acc. to OSHA HCS

Printing date 01/06/2020

Reviewed on 01/06/2020

Trade name: MXV Series

(Contd. of page 4)

|   |   |
|---|---|
| · <b>pH-value:</b>                                | Not determined.                               |
| · <b>Change in condition</b>                      |   |
| <b>Melting point/Melting range:</b>               | Undetermined.                                 |
| <b>Boiling point/Boiling range:</b>               | Undetermined.                                 |
| · <b>Flash point:</b>                             | Not applicable.                               |
| · <b>Flammability (solid, gaseous):</b>           | Not applicable.                               |
| · <b>Decomposition temperature:</b>               | Not determined.                               |
| · <b>Auto igniting:</b>                           | Product is not selfigniting.                  |
| · <b>Danger of explosion:</b>                     | Product does not present an explosion hazard. |
| · <b>Explosion limits:</b>                        |   |
| <b>Lower:</b>                                     | Not determined.                               |
| <b>Upper:</b>                                     | Not determined.                               |
| · <b>Vapor pressure:</b>                          | Not determined.                               |
| · <b>Density:</b>                                 | Not determined.                               |
| · <b>Relative density</b>                         | Not determined.                               |
| · <b>Vapor density</b>                            | Not determined.                               |
| · <b>Evaporation rate</b>                         | Not determined.                               |
| · <b>Solubility in / Miscibility with Water:</b>  | Not miscible or difficult to mix.             |
| · <b>Partition coefficient (n-octanol/water):</b> | Not determined.                               |
| · <b>Viscosity:</b>                               |   |
| <b>Dynamic:</b>                                   | Not determined.                               |
| <b>Kinematic:</b>                                 | Not determined.                               |
| · <b>Other information</b>                        | No further relevant information available.    |

## 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:**  
"Combustion may yield carbon monoxide, carbon dioxide, silicon dioxide and formaldehyde."

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**

**ATE (Acute Toxicity Estimate)**

|        |      |                   |
|--------|------|-------------------|
| Dermal | LD50 | 8,333–9,375 mg/kg |
|--------|------|-------------------|

(Contd. on page 6)

US

# Safety Data Sheet

acc. to OSHA HCS

Printing date 01/06/2020

Reviewed on 01/06/2020

Trade name: MXV Series

(Contd. of page 5)

**77-58-7 dibutyltin dilaurate**

Oral LD50 175 mg/kg (rat)

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:

· **Carcinogenic categories**· **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

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

None of the ingredients is listed.

**12 Ecological information**

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 3 (Self-assessment): extremely hazardous for water  
Do not allow product to reach ground water, water course or sewage system, even in small quantities.  
Danger to drinking water if even extremely small quantities leak into the ground.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **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.

US

(Contd. on page 7)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 01/06/2020

Reviewed on 01/06/2020

Trade name: MXV Series

(Contd. of page 6)

## 14 Transport information

|   |                 |
|---|-----------------|
| · UN-Number   |                 |
| · DOT, ADN, IMDG, IATA  | not regulated   |
| · UN proper shipping name   |                 |
| · DOT, ADN, IMDG, IATA  | not regulated   |
| · Transport hazard class(es)  |                 |
| · DOT, ADN, IMDG, IATA  |                 |
| · Class   | not regulated   |
| · Packing group   |                 |
| · DOT, IMDG, IATA   | not regulated   |
| · Environmental hazards:  | Not applicable. |
| · Special precautions for user  | Not applicable. |
| · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| · UN "Model Regulation":  | not regulated   |

## 15 Regulatory information

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

### · Section 355 (extremely hazardous substances):

None of the ingredients is listed.

### · Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

### · TSCA (Toxic Substances Control Act):

|            |   |        |
|------------|---|--------|
| 70131-67-8 | Poly(dimethylsiloxane), hydroxy terminated        | ACTIVE |
| 68611-44-9 | Silica, amorphous                                 | ACTIVE |
| 22984-54-9 | butan-2-one O,O',O''-(methylsilylidyne)trioxime   | ACTIVE |
| 919-30-2   | 3-aminopropyltriethoxysilane                      | ACTIVE |
| 13822-56-5 | 3-(trimethoxysilyl)propylamine                    | ACTIVE |
| 556-67-2   | octamethylcyclotetrasiloxane                      | ACTIVE |
| 34206-40-1 | butan-2-one O,O',O'',O'''-silanetetrayltetraoxime | ACTIVE |
| 77-58-7    | dibutyltin dilaurate                              | ACTIVE |

### · Hazardous Air Pollutants

None of the ingredients is listed.

### · Proposition 65

#### · Chemicals known to cause cancer:

None of the ingredients is listed.

#### · Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

#### · Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

(Contd. on page 8)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 01/06/2020

Reviewed on 01/06/2020

Trade name: MXV Series

(Contd. of page 7)

- **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

- **Carcinogenic categories**

- **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

- **TLV (Threshold Limit Value established by ACGIH)**

77-58-7 dibutyltin dilaurate

A4

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

None of the ingredients is listed.

- **GHS label elements**

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

- **Hazard pictograms**



GHS08

- **Signal word** Danger

- **Hazard-determining components of labeling:**

dibutyltin dilaurate

- **Hazard statements**

May damage fertility or the unborn child.

- **Precautionary statements**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Wear protective gloves/protective clothing/eye protection/face protection.

IF exposed or concerned: Get medical advice/attention.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 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.

- **Department issuing SDS:** Regulatory Compliance Department

- **Contact:** novagard@novagard.net

- **Date of preparation / last revision** 01/06/2020 / -

- **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

(Contd. on page 9)



# Safety Data Sheet

acc. to OSHA HCS

Printing date 01/06/2020

Reviewed on 01/06/2020

**Trade name: MXV Series**

(Contd. of page 8)

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety &amp; Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Repr. 1B: Reproductive toxicity – Category 1B

· **\* Data compared to the previous version altered.**

US