



Safety Data Sheet

acc. to OSHA HCS

Printing date 06/30/2016

Version 1

Reviewed on 06/30/2016

1 Identification

- **Product identifier**
- **Trade name:** ***MRC 03-1190 UNPIGMENTED DUAL***
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:** *Protavic America/Mereco Technologies*
8 Ricker Avenue
Londonderry NH 03053
USA *Phone +1 / 603-623-8626*
- **Information department:** *Technical department.*
email = info@mereco.com

2 Hazard(s) identification

- **Classification of the substance or mixture**



Carc. 1A H350 May cause cancer.

STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.



Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

- **Label elements**

- **GHS label elements**

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

- **Hazard pictograms**



GHS07 GHS08

- **Signal word**

Danger

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

Diglycidyl Ether Bisphenol-A epoxy resin
polyamide resin
Potassium aluminum silicate
Sodium Aluminum silicate

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<ul style="list-style-type: none"> · Hazard statements 	<p>H315 Causes skin irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H350 May cause cancer. H335 May cause respiratory irritation. H372 Causes damage to organs through prolonged or repeated exposure.</p>
<ul style="list-style-type: none"> · Precautionary statements 	<p>P260 Do not breathe dust/fume/gas/mist/vapors/spray. P280 Wear protective gloves. P280 Wear eye protection / face protection. P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P321 Specific treatment (see on this label). P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312 Call a POISON CENTER/doctor if you feel unwell. P363 Wash contaminated clothing before reuse. P308+P313 IF exposed or concerned: Get medical advice/attention. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.</p>
<ul style="list-style-type: none"> · Classification system: 	
<ul style="list-style-type: none"> · NFPA ratings (scale 0 - 4) 	<p>Health = 2 Fire = 0 Reactivity = 0</p>
<ul style="list-style-type: none"> · HMIS-ratings (scale 0 - 4) 	<p>Health = *2 Fire = 0 Reactivity = 0</p>
<ul style="list-style-type: none"> · Other hazards 	
<ul style="list-style-type: none"> · Results of PBT and vPvB assessment 	
<ul style="list-style-type: none"> · PBT: 	Not applicable.
<ul style="list-style-type: none"> · vPvB: 	Not applicable.

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with non-hazardous additions. Non-hazardous ingredients are not listed.

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Components:

	Diglycidyl Ether Bisphenol-A epoxy resin ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1B, H317	40-60%
	Polyamide resin ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	20-40%
	Inorganic filler ⚠ Eye Irrit. 2A, H319; STOT SE 3, H335	1-3%
CAS: 12001-26-2	Potassium aluminum silicate ⚠ STOT RE 1, H372; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2B, H320	3-10%
CAS: 112-24-3 EINECS: 203-950-6	triethylenetetramine (TETA) ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; ⚠ Acute Tox. 4, H312; Skin Sens. 1, H317	1-3%
	Sodium Aluminum silicate ⚠ Carc. 1A, H350; STOT RE 1, H372	< 1%

SVHC (Substances of Very High Concern - REACH)

None of the ingredients is listed.

Additional information:

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

4 First-aid measures

Description of first aid measures

- After inhalation:** Supply fresh air or oxygen; call for doctor.
In case of unconsciousness place patient in a stable side position for transportation.
- After skin contact:** 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.
- 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:** CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards arising from the substance or mixture** No further relevant information available.

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- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** No special measures required.
- **Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **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.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling** Store in cool, dry place in tightly closed receptacles.
Use only in well ventilated areas.
- **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 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 constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

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12001-26-2 Potassium aluminum silicate (3-10%)	
PEL	Long-term value: 20 mppcf ppm <1% crystalline silica
REL	Long-term value: 3* mg/m ³ *respirable dust; containing < 1% quartz
TLV	Long-term value: 3* mg/m ³ *as respirable fraction
112-24-3 triethylenetetramine (TETA) (1-3%)	
WEEL	Long-term value: 6 mg/m ³ , 1 ppm 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.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Avoid contact with the eyes and skin.*
- **Breathing equipment:** *In case of brief exposure or low pollution use respiratory filter device.
In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.*
- **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 is based on consideration of the penetration times, rates of diffusion and the degradation of the material.*
- **Material of gloves** *The selection of suitable gloves depends not only on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.*
- **Penetration time of glove material** *The exact penetration time has to be determined by the glove manufacturer and has to be observed.*
- **Eye protection:** *Tightly sealed goggles*

9 Physical and chemical properties

· Information on basic physical and chemical properties	
· General Information	
· Appearance:	
Form:	Not determined.
Color:	Off-white
· Odor:	Amine-like

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· Odour threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	
Decomposition temperature:	Not determined.
· Auto igniting:	Product is not self-igniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure:	Not determined.
· Density:	Not determined.
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	0.0 %
· Other information	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. |

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Hazardous decomposition products: Irritant gases/vapors

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11 Toxicological information

- Information on toxicological effects
- Acute toxicity:

- LD/LC50 values that are relevant for classification:

Diglycidyl Ether Bisphenol-A epoxy resin		
Oral	LD50	> 15000 mg/kg (rat)
Dermal	LD50	23000 mg/kg (rabbit)
polyamide resin		
Oral	LD50	16000 mg/kg (rat)
Dermal	LD50	6500 mg/kg (rabbit)
112-24-3 triethylenetetramine (TETA)		
Oral	LD50	1716.2 mg/kg (rat)
Dermal	LD50	1465.4 mg/kg (rabbit)
112945-52-5 silicon dioxide, chemically prepared		
Oral	LD50	> 5000 mg/kg (rat)

- Primary irritant effect:

- on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- Sensitization: Sensitization possible through skin contact.

- Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:
 Toxic
 Irritant
 Carcinogenic.

- Carcinogenic categories

IARC (International Agency for Research on Cancer)			
	Diglycidyl Ether Bisphenol-A epoxy resin	3	40-60%
14808-60-7	Quartz (SiO ₂)	1	<0.2%
NTP (National Toxicology Program)			
14808-60-7	Quartz (SiO ₂)	K	<0.2%
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.

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- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Not known to be hazardous to water.
- **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.

14 Transport information

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

15 Regulatory information

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

- **Section 302 (extremely hazardous substances):**

None of the ingredients is listed.

- **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed by CAS number.

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Sections 311/312 (Specific hazard chemical listings):

	Diglycidyl Ether Bisphenol-A epoxy resin
	polyamide resin
112-24-3	triethylenetetramine (TETA)

Sections 311/312 Hazard Categorizations:

	Diglycidyl Ether Bisphenol-A epoxy resin	A = Acute Health Hazard	40-60%
	polyamide resin	Category = A (Acute health hazard)	20-40%
112-24-3	triethylenetetramine (TETA)	A = Acute; C = Chronic (health hazards)	1-3%

TSCA (Toxic Substances Control Act):

	Diglycidyl Ether Bisphenol-A epoxy resin
	polyamide resin
112-24-3	triethylenetetramine (TETA)
1332-58-7	Kaolin
	Sodium Aluminum silicate
14808-60-7	Quartz (SiO ₂)

Proposition 65
Chemicals known to cause cancer:

14808-60-7	Quartz (SiO ₂)	*	<0.2%
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Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

Carcinogenic categories
EPA (Environmental Protection Agency)

None of the ingredients is listed.

TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

MAK (German Maximum Workplace Concentration)

	Diglycidyl Ether Bisphenol-A epoxy resin	3A	40-60%
14808-60-7	Quartz (SiO ₂)	1	<0.2%

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

14808-60-7	Quartz (SiO ₂)	<0.2%
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National regulations:
Additional classification according to Decree on Hazardous Materials:

Carcinogenic hazardous material group III (dangerous).

Information about limitation of use:

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

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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.

Relevant phrases

H302 Harmful if swallowed.
 H312 Harmful in contact with skin.
 H314 Causes severe skin burns and eye damage.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 H319 Causes serious eye irritation.
 H320 Causes eye irritation.
 H335 May cause respiratory irritation.
 H350 May cause cancer.
 H372 Causes damage to organs through prolonged or repeated exposure.

Department issuing SDS:

Technical department

Contact:

Dr. John F. Plummer

Date of preparation / previous revision

06/30/2016 / -

Abbreviations and acronyms:

ADR: Accord européen sur le transport 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
 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
 SVHC: Substances of Very High Concern
 vPvB: very Persistent and very Bioaccumulative
 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
 Skin Corr. 1B: Skin corrosion/irritation – Category 1B
 Skin Irrit. 2: Skin corrosion/irritation – Category 2
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1
 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
 Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B
 Skin Sens. 1: Skin sensitisation – Category 1
 Skin Sens. 1B: Skin sensitisation – Category 1B
 Carc. 1A: Carcinogenicity – Category 1A
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
 STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1