

Safety Data Sheet
acc. to OSHA HCS

Printing date 10/21/2015

Reviewed on 10/21/2015

1 Identification

- **Product identifier**
- **Trade name: Epoxy Polyester**
- **Article number:**
UN-701780XXXXXX, UN-702780XXXXXX, UN-701380XXXXXX, UN-701746XXXXXX, UN-701750XXXXXX, UN-701781XXXXXX, UN-701785XXXXXX, UN-701791XXXXXX, UN-701831XXXXXX, UN-702750XXXXXX, UN-703734XXXXXX, UN-708799XXXXXX
- **Application of the substance / the mixture**
Coating powder for professional use
Powder application by electrostatic spraying
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Univercol
Hamelacha st. 6
Netanya industrial zone
P.O. Box 8161
Netanya 42505
ISRAEL
- **Information department:**
Product safety department: Israel Michal 054-2341336, Ira Yoavi 054-5660537
- **Emergency telephone number:** During normal opening times: +972-9-8637555

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS08 Health hazard

Carc. 2 H351 Suspected of causing cancer.

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



GHS08

- **Signal word** Warning
- **Hazard-determining components of labeling:**
Titanium Dioxide
- **Hazard statements**
H351 Suspected of causing cancer.
- **Precautionary statements**
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P405 Store locked up.

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P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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



Health = 1
Fire = 0
Reactivity = 0

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



Health = 1
Fire = 0
Reactivity = 0

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

3 Composition/information on ingredients

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

· **Dangerous components:**

	carboxylated polyester resin	25-50%
7727-43-7	barium sulphate, natural	25-50%
13463-67-7	Titanium Dioxide	2.5-<10%
112926-00-8	Precipitated silica (Silica-Amorphous)	0.1-≤2.5%

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:**
Foam, carbon dioxide blanket, dry powder, fine water spray.
For burning cartons, dry powder and foam are preferred extinguishing agents.

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- **For safety reasons unsuitable extinguishing agents:**
Strong water jets or inert gas under high pressure could cause burning powder to swirl up and prevent effective fire-fighting.
- **Special hazards arising from the substance or mixture**
Thick, black smoke is emitted when burning which should not be inhaled.
- **Advice for firefighters**
- **Protective equipment:** *Wear self-contained respiratory protective device.*

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Avoid dust formation and keep away from ignition sources. Do not inhale dust.
- **Environmental precautions:**
Do not allow to enter drains. In case of pollution of rivers, lakes or drains, notify the appropriate authorities.
- **Methods and material for containment and cleaning up:**
Clean up spilled dry material with an ex-proof vacuum cleaner or carefully with a broom. Dispose of spilled material according to local regulations.
- **Reference to other sections**
*No dangerous substances are released.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.*

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Do not eat, drink or smoke while working. Refer to section 8 concerning personal precaution.
- **Information about protection against explosions and fires:**
Keep away from all sources of ignition, heat and open fire. Dust can form an explosive mixture with air. Take precautions against build-up of electrostatic charge: Use earthened equipment when transferring powder between vessels. Wear antistatic footwear with conductive soles. The floor must be electrically conductive. Use non-sparking application equipment. Check the earthing of the spray booth periodically.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Smoking prohibited. Keep opened cartons properly closed carefully.
- **Information about storage in one common storage facility:** *Not required.*
- **Further information about storage conditions:**
Store at between 15 and 25°C in a dry and well ventilated place. Protect from heat and direct sunlight.
- **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.*

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· **Control parameters**

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

carboxylated polyester resin

OSHA Long-term value: 10 mg/m³

7727-43-7 barium sulphate, natural

PEL Long-term value: 15* 5** mg/m³
*total dust **respirable fraction

REL Long-term value: 10* 5** mg/m³
*total dust **respirable fraction

TLV Long-term value: 5* mg/m³
*inhalable fraction; E

112926-00-8 Precipitated silica (Silica-Amorphous)

PEL 20mppcf or 80mg/m³ /%SiO₂

REL Long-term value: 6 mg/m³
See Pocket Guide App. C

TLV TLV withdrawn

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:** Wash hands before breaks and at the end of work.

· **Breathing equipment:**

If dust concentration is greater than the TLV, a suitable dust mask must be worn.

· **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material 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:** If a high level of dust release is expected, a protective goggles should be worn.

9 Physical and chemical properties

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

· **General Information**

· **Appearance:**

Form: Finely divided powder

Color: Various colors

· **Odor:** Characteristic

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· Odour threshold:	Not determined.
· pH-value:	Not applicable.
· Change in condition Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	999 °C (1830 °F)
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	Not determined.
· Ignition temperature:	> 350 °C (> 662 °F)
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Air-dust mixtures may be explosive.
· Explosion limits:	
Lower:	20-70* mg/m ³
Upper:	Not determined.
· Vapor pressure at 20 °C (68 °F):	0.1 hPa
· Density at 20 °C (68 °F):	1.6 g/cm ³ (13.352 lbs/gal)
· Relative density	Not determined.
· Vapour density	Not applicable.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with Water:	Insoluble.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
· Solvent content:	
Organic solvents:	0.0 %
Solids content:	99.5 %
· Other information	* A value of 10 mg/m ³ must not be exceeded during system operation.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
Stable under the recommended storage and handling conditions, (see Section 7).
- **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:**
In a fire, hazardous decomposition products such as smoke, carbon monoxide, carbon dioxide and oxides of nitrogen may be produced.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

Oral	LD50	5000 mg/kg (rat)
Dermal	LD50	5000 mg/kg (rabbit)
Inhalative	LC50/4 h	10.8 mg/l

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**

- **Carcinogenic categories**

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

112926-00-8	Precipitated silica (Silica-Amorphous)	3
7631-86-9	silicon dioxide, chemically prepared	3

- **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 2 (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even 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.

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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, ADN, IMDG, IATA	Void
· UN proper shipping name	
· DOT, ADR, ADN, IMDG, IATA	Void
· Transport hazard class(es)	
· DOT, ADR, ADN, IMDG, IATA	
· Class	Void
· Packing group	
· DOT, ADR, IMDG, IATA	Void
· Environmental hazards:	
· Marine pollutant:	No
· 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":	Void

- **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):**

7727-43-7	barium sulphate, natural
1344-28-1	aluminium oxide

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

7727-43-7	barium sulphate, natural
25036-25-3	Epichlorhydrin/Bisphenol A Epoxy Resin (NAMW>700)
28064-14-4	reaction product of phenol-formaldehyde novolac with epichlorohydrin
21645-51-2	aluminium hydroxide
1344-28-1	aluminium oxide
7631-86-9	silicon dioxide, chemically prepared
119-53-9	benzoin

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· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

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

None of the ingredients is listed.

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

None of the ingredients is listed.

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

None of the ingredients is listed.

· **Carcinogeny categories**

· **EPA (Environmental Protection Agency)**

7727-43-7 barium sulphate, natural

D, CBD(inh), NL(oral)

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

1344-28-1 aluminium oxide

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 Warning**

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

Titanium Dioxide

· **Hazard statements**

H351 Suspected of causing cancer.

· **Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P405 Store locked up.

P501 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:** Product safety department

· **Contact:** Mrs. Ira Yoavi iray@nirlat.com

· **Date of preparation / last revision** 10/21/2015 / -

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· 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 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
vPvB: very Persistent and very Bioaccumulative
Carc. 2: Carcinogenicity, Hazard Category 2

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