



1 Identification

- **Product identifier**
- **Trade name: 5180 Encapsulon Industrial Surface Tolerant Epoxy Mastic Primer**
- **Product code: 5180**
- **Recommended use and restriction on use**
- **Recommended use:** Epoxy coating
- **Restrictions on use:** Contact manufacturer/supplier
- **Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**
Florida Paints
78 3rd Street
Winter Garden, FL 34787
USA
(407) 986-1000
- **Emergency telephone number:**
ChemTel Inc.
(800)255-3924, +1 (813)248-0585

2 Hazard(s) identification

- **Classification of the substance or mixture**
Skin Irrit. 2 H315 Causes skin irritation.
Eye Dam. 1 H318 Causes serious eye damage.
STOT SE 1 H370 Causes damage to the stomach and the blood system. Route of exposure: Oral.
STOT RE 1 H372 Causes damage to the kidneys through prolonged or repeated exposure. Route of exposure: Oral.
- **Label elements**
- **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms:**

GHS05 GHS08
- **Signal word:** Danger
- **Hazard statements:**
H315 Causes skin irritation.
H318 Causes serious eye damage.
H370 Causes damage to the stomach and the blood system. Route of exposure: Oral.
H372 Causes damage to the kidneys through prolonged or repeated exposure. Route of exposure: Oral.
- **Precautionary statements:**
P260 Do not breathe mist/vapors/spray.
P264 Wash thoroughly after handling.
P280 Wear protective gloves and eye protection.
P270 Do not eat, drink or smoke when using this product.

(Cont'd. on page 2)



Printing date: 08/24/2018

Revision: 08/24/2018

Trade name: 5180 ENCAPSULON INDUSTRIAL SURFACE TOLERANT EPOXY MASTIC PRIMER

(Cont'd. of page 1)

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P302+P352 IF ON SKIN: Wash with plenty of water.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P314 Get medical advice/attention if you feel unwell.

P362+P364 Take off contaminated clothing and wash it before reuse.

P405 Store locked up.

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

· **Other hazards** There are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Components:**

	Trade Secret Aliphatic polyamine ⚠ STOT SE 1, H370; STOT RE 1, H372 ⚠ Eye Dam. 1, H318 ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Irrit. 2, H315 Flam. Liq. 4, H227	20-40%
2807-30-9	2-(propyloxy)ethanol ⚠ Flam. Liq. 3, H226 ⚠ Acute Tox. 4, H312; Eye Irrit. 2A, H319	5-<10%
1344-28-1	aluminium oxide	1-2.5%
7631-86-9	silicon dioxide	0.1-1%
1314-23-4	zirconium dioxide	0.1-1%
57-55-6	propylene glycol	0.1-1%
126-86-3	2,4,7,9-tetramethyldec-5-yne-4,7-diol ⚠ Eye Dam. 1, H318 ⚠ Skin Sens. 1B, H317	0.1-<1%

· **Additional information:**

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret.
For the wording of the listed Hazard Statements refer to section 16.

4 First-aid measures

· **Description of first aid measures**

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.
If skin irritation is experienced, consult a doctor.

· **After eye contact:**

Protect unharmed eye.
Remove contact lenses if worn.
Rinse opened eye for several minutes under running water. Then consult a doctor.

(Cont'd. on page 3)



Trade name: 5180 ENCAPSULON INDUSTRIAL SURFACE TOLERANT EPOXY MASTIC PRIMER

(Cont'd. of page 2)

- **After swallowing:**
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; immediately call for medical help.
- **Most important symptoms and effects, both acute and delayed:**
Irritant to skin and mucous membranes.
Strong irritant with the danger of severe eye injury.
Gastric or intestinal disorders when ingested.
Nausea in case of ingestion.
Diarrhea.
- **Danger:**
Causes serious eye damage.
Causes damage to the stomach and the blood system. Route of exposure: Oral.
Causes damage to the kidneys through prolonged or repeated exposure. Route of exposure: Oral.
May be harmful if swallowed.
May be harmful if inhaled.
- **Indication of any immediate medical attention and special treatment needed:**
Treat symptomatically.
If medical advice is needed, have product container or label at hand.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents:** None.
- **Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
- **Advice for firefighters**
- **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation.
Use personal protective equipment as required.
Particular danger of slipping on leaked/spilled product.
- **Environmental precautions**
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Methods and material for containment and cleaning up**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Do not allow to dry out
Send for recovery or disposal in suitable receptacles.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.

(Cont'd. on page 4)

Safety Data Sheet
acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 08/24/2018

Revision: 08/24/2018

Trade name: 5180 ENCAPSULON INDUSTRIAL SURFACE TOLERANT EPOXY MASTIC PRIMER

See Section 13 for disposal information.

(Cont'd. of page 3)

7 Handling and storage

- **Handling**
- **Precautions for safe handling:**
Open and handle receptacle with care.
Use only in well ventilated areas.
Keep out of reach of children.
- **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:** Store in a cool location.
- **Information about storage in one common storage facility:**
Store away from foodstuffs.
Do not store together with acids.
- **Further information about storage conditions:** Keep containers tightly sealed.
- **Specific end use(s)** No relevant information available.

8 Exposure controls/personal protection

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

2807-30-9 2-(propyloxy)ethanol

EV (Canada)	Long-term value: 110 mg/m ³ , 25 ppm Skin
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1344-28-1 aluminium oxide

PEL (USA)	Long-term value: 15* [*] ; 5** ^{**} mg/m ³ *Total dust; ** Respirable fraction
REL (USA)	Long-term value: 10* 5** mg/m ³ as Al*Total dust**Respirable/pyro powd./welding f.
TLV (USA)	Long-term value: 1* mg/m ³ as Al; *as respirable fraction
EL (Canada)	Long-term value: 1.0 mg/m ³ respirable, as Al
EV (Canada)	Long-term value: 10 mg/m ³ total dust
LMPE (Mexico)	Long-term value: 1* mg/m ³ A4, *fracciòn respirable

7631-86-9 silicon dioxide

NIOSH REL (USA)	Long-term value: 6 mg/m ³
OSHA PEL (USA)	Long-term value: 80 mg/m ³

(Cont'd. on page 5)



Trade name: 5180 ENCAPSULON INDUSTRIAL SURFACE TOLERANT EPOXY MASTIC PRIMER

(Cont'd. of page 4)

1314-23-4 zirconium dioxide

PEL (USA)	Long-term value: 5 mg/m ³ as Zr
REL (USA)	Short-term value: 10 mg/m ³ Long-term value: 5 mg/m ³ as Zr
TLV (USA)	Short-term value: 10 mg/m ³ Long-term value: 5 mg/m ³ as Zr
EL (Canada)	Short-term value: 10 mg/m ³ Long-term value: 5 mg/m ³ as Zr
LMPE (Mexico)	Short-term value: 10 mg/m ³ Long-term value: 5 mg/m ³ A4; como Zr

57-55-6 propylene glycol

WEEL (USA)	Long-term value: 10 mg/m ³
EV (Canada)	Long-term value: 155* 10** mg/m ³ , 50* ppm *vapour and aerosol;**aerosol only

13463-67-7 titanium dioxide

PEL (USA)	Long-term value: 15* mg/m ³ *total dust
REL (USA)	See Pocket Guide App. A
TLV (USA)	Long-term value: 10 mg/m ³ withdrawn from NIC
EL (Canada)	Long-term value: 10* 3** mg/m ³ *total dust;**respirable fraction; IARC 2B
EV (Canada)	Long-term value: 10 mg/m ³ total dust
LMPE (Mexico)	Long-term value: 10 mg/m ³ A4

• **Exposure controls**

• **Personal protective equipment:**

• **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

• **Engineering controls:** Provide adequate ventilation.

• **Breathing equipment:**

Not required under normal conditions of use.

Wear appropriate NIOSH respirator when ventilation is inadequate and occupational exposure limits are exceeded.

(Cont'd. on page 6)

Trade name: 5180 ENCAPSULON INDUSTRIAL SURFACE TOLERANT EPOXY MASTIC PRIMER

(Cont'd. of page 5)

· **Protection of hands:**



Protective gloves

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

· **Material of gloves**

- Neoprene gloves
- Nitrile rubber, NBR
- Butyl rubber, BR
- Natural rubber, NR
- Laminated film gloves.

· **Not suitable are gloves made of the following materials:**

- PVA gloves
- PVC gloves

· **Eye protection:**

Contact lenses should not be worn.



Safety glasses

· **Body protection:** Protective work clothing

· **Limitation and supervision of exposure into the environment**

Avoid release to the environment.

9 Physical and chemical properties

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

· **Appearance:**

Form: Liquid

Color: White

· **Odor:** Mild

· **Odor threshold:** Not determined.

· **pH-value at 20 °C (68 °F):** 8.8

· **Melting point/Melting range:** Not determined.

· **Boiling point/Boiling range:** 260 °C (500 °F)

· **Flash point:** 253 °C (487 °F)

· **Flammability (solid, gaseous):** Not applicable.

· **Auto-ignition temperature:** Not determined.

· **Decomposition temperature:** Not determined.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Explosion limits**

Lower: Not determined.

Upper: Not determined.

(Cont'd. on page 7)



Trade name: 5180 ENCAPSULON INDUSTRIAL SURFACE TOLERANT EPOXY MASTIC PRIMER

(Cont'd. of page 6)

· Oxidizing properties:	Not determined.
· Vapor pressure at 20 °C (68 °F):	27 hPa (20 mm Hg)
· Density at 20 °C (68 °F):	1.29 g/cm ³ (10.765 lbs/gal)
· Relative density:	Not determined.
· Vapor density:	Not determined.
· Evaporation rate:	Not determined.
· Solubility in / Miscibility with Water:	Fully miscible.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity	
Dynamic at 20 °C (68 °F):	3500 cPs
Kinematic:	Not determined.
VOC content:	276 g/L (Less water)
· Other information	No relevant information available.

10 Stability and reactivity

- **Reactivity:** No relevant information available.
- **Chemical stability:** Stable under normal temperatures and pressures.
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions**
Reacts with oxidizing agents.
Reacts with acids.
- **Conditions to avoid**
Avoid acids.
Excessive heat.
- **Incompatible materials**
Oxidizing agents
Strong acids
- **Hazardous decomposition products**
Carbon monoxide and carbon dioxide
Nitrogen oxides (NOx)

11 Toxicological information

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

2807-30-9 2-(propyloxy)ethanol

Oral	LD50	1800 mg/kg (mouse)
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(Cont'd. on page 8)



Printing date: 08/24/2018

Revision: 08/24/2018

Trade name: 5180 ENCAPSULON INDUSTRIAL SURFACE TOLERANT EPOXY MASTIC PRIMER

(Cont'd. of page 7)

Dermal	LD50	3100 mg/kg (rat) 1300 mg/kg (rabbit)
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- **Primary irritant effect:**
- **On the skin:** Irritant to skin and mucous membranes.
- **On the eye:** Strong irritant with the danger of severe eye injury.
- **Sensitization:**
Based on available data, the classification criteria are not met.
Contains 2,4,7,9-tetramethyldec-5-yne-4,7-diol. May produce an allergic reaction.
- **Carcinogenic categories**

• **IARC (International Agency for Research on Cancer):**

13463-67-7	titanium dioxide	2B
7631-86-9	silicon dioxide	3

• **NTP (National Toxicology Program):**

None of the ingredients are listed.

• **OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

• **Probable route(s) of exposure:**

- Ingestion.
- Inhalation.
- Eye contact.
- Skin contact.

- **Acute effects (acute toxicity, irritation and corrosivity):** Causes serious eye damage.
- **Repeated dose toxicity:** Danger of very serious irreversible effects.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
- **Carcinogenicity:** Based on available data, the classification criteria are not met.
- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- **STOT-single exposure:** Causes damage to the stomach and the blood system. Route of exposure: Oral.
- **STOT-repeated exposure:**
Causes damage to the kidneys through prolonged or repeated exposure. Route of exposure: Oral.
- **Aspiration hazard:** Based on available data, the classification criteria are not met.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity** No relevant information available.
- **Persistence and degradability** No relevant information available.
- **Bioaccumulative potential:** No relevant information available.
- **Mobility in soil:** No relevant information available.
- **Additional ecological information**
- **General notes:**
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

(Cont'd. on page 9)



Trade name: 5180 ENCAPSULON INDUSTRIAL SURFACE TOLERANT EPOXY MASTIC PRIMER

· **Other adverse effects** No relevant information available.

(Cont'd. of page 8)

13 Disposal considerations

· **Waste treatment methods**

· **Recommendation:**

Can be disposed of with household garbage after solidification following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

· **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

· Class

Not regulated.

· **Packing group**

· DOT, ADR, 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.

15 Regulatory information

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

· **United States (USA)**

· **SARA**

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

None of the ingredients are listed.

(Cont'd. on page 10)

Safety Data Sheet
acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 08/24/2018

Revision: 08/24/2018

Trade name: 5180 ENCAPSULON INDUSTRIAL SURFACE TOLERANT EPOXY MASTIC PRIMER

(Cont'd. of page 9)

• **Section 304 (emergency release notification):**

None of the ingredients are listed.

• **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

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

1344-28-1	aluminium oxide
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• **TSCA (Toxic Substances Control Act)**

All ingredients are listed.

• **Proposition 65 (California)**

• **Chemicals known to cause cancer:**

Reference to titanium dioxide is based on unbound respirable particles and is not generally applicable to product as supplied.

13463-67-7	titanium dioxide
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• **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

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

None of the ingredients are listed.

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

None of the ingredients are listed.

• **Carcinogenic categories**

• **EPA (Environmental Protection Agency):**

None of the ingredients are listed.

• **IARC (International Agency for Research on Cancer):**

Reference to chemical component(s) listed below are based on unbound respirable particles and are not generally applicable to product as supplied.

13463-67-7	titanium dioxide	2B
7631-86-9	silicon dioxide	3

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

13463-67-7	titanium dioxide
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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.

• **Date of preparation / last revision** 12/15/2016 / -

• **Abbreviations and acronyms:**

ADR: 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)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 NIOSH: National Institute for Occupational Safety

(Cont'd. on page 11)

Safety Data Sheet
acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 08/24/2018

Revision: 08/24/2018

Trade name: 5180 ENCAPSULON INDUSTRIAL SURFACE TOLERANT EPOXY MASTIC PRIMER

(Cont'd. of page 10)

OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
LDLo: Lowest Lethal Dose Observed
Flam. Liq. 3: Flammable liquids – Category 3
Flam. Liq. 4: Flammable liquids – Category 4
Acute Tox. 4: Acute toxicity – Category 4
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
Skin Sens. 1B: Skin sensitisation – Category 1B
STOT SE 1: Specific target organ toxicity (single exposure) – Category 1
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

• **Sources**

Website, European Chemicals Agency (echa.europa.eu)
Website, US EPA Substance Registry Services (ofmpub.epa.gov/sorinternet/registry/substreg/home/overview/home.do)
Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)
Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6
Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.
Safety Data Sheets, Individual Manufacturers

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