

# **ELAN-Cast® E 023 FR Black Resin**

Version 7

Revision Date 08/08/2016

Print Date 08/08/2016

#### **SECTION 1. IDENTIFICATION**

Product name

: ELAN-Cast® E 023 FR Black Resin

#### Manufacturer or supplier's details

Company

**ELANTAS PDG. INC.** 

5200 North 2nd Street St. Louis MO 63147

Telephone

(314) 621-5700

Visit our web site

www.elantas.com Todd.Thomas@altana.com

E-mail address Emergency telephone

INFOTRAC - 1-800-535-5053

number

Recommended use of the chemical and restrictions on use

Recommended use

: Electrical Insulation

Restrictions on use

: Refer to Section 15 for any restrictions that may apply

### **SECTION 2. HAZARDS IDENTIFICATION**

### **GHS Classification**

Skin irritation

: Category 2

Eye irritation

: Category 2A

Skin sensitisation

: Category 1

Carcinogenicity

: Category 2

Specific target organ toxicity

- single exposure

: Category 3 (Respiratory system)

## **GHS** label elements

Hazard pictograms



Signal word

: Warning

Hazard statements

: H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H351 Suspected of causing cancer.

**Precautionary statements** 

: Prevention:

P201 Obtain special instructions before use.



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

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear eye protection/ face protection.

P280 Wear protective gloves.

P281 Use personal protective equipment as required.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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.

P362 Take off contaminated clothing and wash before reuse. Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

## Other hazards

None known.

# SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

: Modified Epoxy Resin Solution

#### **Hazardous components**

Component	CAS-No.	Concentration (%)
Epoxy Resin	25068-38-6	>= 44 - < 45
Fine Mineral media	-	>= 9 - < 10
Alkyl (C12, C14) glycidyl ether	•	>= 3 -< 4
Carbon black	1333-86-4	>= 0 -<1



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4-Morpholinecarboxaldehyde 4394-85-8 >= 0 - < 1

**SECTION 4. FIRST AID MEASURES** 

General advice : Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact : If skin irritation persists, call a physician.

If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Immediately flush eye(s) with plenty of water.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Induce vomiting immediately and call a physician.

Keep respiratory tract clear.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician. Take victim immediately to hospital.

#### **SECTION 5. FIREFIGHTING MEASURES**

Unsuitable extinguishing

media

: High volume water jet

Further information : Standard procedure for chemical fires.

Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

for firefighters

Special protective equipment : Wear self-contained breathing apparatus for firefighting if

necessary.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures

: Use personal protective equipment.

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**Environmental precautions** 

: Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

Absorbent paper or other organic material used for cleaning up resin is a fire hazard, as heat and spontaneous combustion can occur, particularly if the resin was catalyzed. Catalyzed resin can generate hazardous exothermic heat if allowed to polymerize in a mass. All soiled or waste materials must be water soaked, and kept in a closed bin until disposed of.

#### **SECTION 7. HANDLING AND STORAGE**

Advice on safe handling

: Avoid formation of aerosol.

Do not breathe vapours/dust.

Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes.

For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national

regulations.

Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

used.

The chemical reaction that cures mixed epoxy is exothermic (heat generating). If left to cure in a contained mass, such as in a mixing vessel, it can generate enough heat to melt plastic, burn skin or ignite surrounding combustible materials. The larger or thicker the epoxy mass, the more heat generated.

Conditions for safe storage

Store under conditions specified on the product Technical

Data Sheet to maintain product quality.

Keep container tightly closed in a dry and well-ventilated

place.

Observe label precautions.

Electrical installations / working materials must comply with

the technological safety standards.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type	Control	Basis
	· -			



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		(Form of exposure)	parameters / Permissible concentration	
Fine Mineral media	-	TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (Total)	15 mg/m3	OSHA P0
		TWA (Respirable fraction)	5 mg/m3	OSHA P0
Carbon black	1333-86-4	TWA	3.5 mg/m3	ACGIH
		TWA	3.5 mg/m3	OSHA Z-1

**Engineering measures** 

: Use with adequate ventilation.

All application areas should be ventilated in accordance with

applicable OSHA regulations. (29 CFR 1910.94)

This product contains a particulate(s) that is considered hazardous per OSHA (29 CFR 1910.1200) and is listed in

Section III as a precautionary warning.

Under normal conditions of use, this product as supplied does not pose a health risk from particulate matter.

Physical degradation of the cured product (i.e. sanding,

abrading, etc.) may pose a dust hazard.

Repeated inhalation of such dust may cause lung injury.

## Personal protective equipment

Respiratory protection

: In the case of vapour formation use a respirator with an

approved filter.

Hand protection

Remarks

: The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection

: Eye wash bottle with pure water

Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Skin and body protection

: Impervious clothing

Choose body protection according to the amount and

concentration of the dangerous substance at the work place.

Hygiene measures

: When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday.



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#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance

: liquid

Odour Threshold

: No data available

pΗ

: No data available

Melting point/freezing point

: No data available

Initial boiling point and boiling

: No data available

range

Vapour pressure

: No data available

Flash point

: Greater than 201 °F (94 °C)

Method: Literature Value

Upper explosion limit

: No data available

Lower explosion limit

: No data available

**Evaporation rate** 

: No data available

Flammability (solid, gas)

: No data available

Relative vapour density

: No data available

Relative Density/Specific

Gravity

: No data available

Density

: 1.5760 g/cm3 (77 °F (25 °C))

Solubility(ies)

Water solubility

: No data available

Solubility in other solvents

: No data available

Partition coefficient: n-

octanol/water

: No data available

Auto-ignition temperature

: No data available

Thermal decomposition

: No data available

Viscosity

Viscosity, dynamic

: No data available



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Viscosity, kinematic

: Greater than 22 mm2/s (104 °F (40 °C))

#### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity

: No decomposition if stored and applied as directed.

Chemical stability

: No decomposition if stored and applied as directed.

Possibility of hazardous

reactions

: No decomposition if stored and applied as directed.

Conditions to avoid

: No data available

Hazardous decomposition

products

 The by-products expected in incomplete pyrolysis or combustion of epoxy resins are mainly phenolics. CO and

water.

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

#### **Acute toxicity**

**Product:** 

Acute oral toxicity

: Acute toxicity estimate : > 5,000 mg/kg

Method: Calculation method

**Components:** 

25068-38-6 Epoxy Resin:

Acute oral toxicity

: LD50 (Rat): 11,400 mg/kg

LD50 (Rat, female): > 2,000 mg/kg Method: OECD Test Guideline 420

GLP: yes

Acute inhalation toxicity

: LC50 : Remarks: No data available

Acute dermal toxicity

: LD50 (Rabbit): 23,400 mg/kg

LD50 (Rat, male and female): > 2,000 mg/kg

Method: OECD Test Guideline 402

GLP: yes

- Fine Mineral media:

Acute oral toxicity

: LD50 (Rat): > 5,000 mg/kg

4394-85-8 4-Morpholinecarboxaldehyde:

Acute oral toxicity

: LD50 (Rat): > 7,360 mg/kg



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Acute dermal toxicity

: LD50 (Rabbit): > 18,400 mg/kg Method: OECD Test Guideline 402

#### Skin corrosion/irritation

## **Product:**

Remarks: May cause skin irritation and/or dermatitis.

#### Components:

### 25068-38-6 Epoxy Resin:

Species: Rabbit

Result: Moderate skin irritation

Species: Rabbit Exposure time: 4 h

Method: OECD Test Guideline 404

Result: Skin irritation

GLP: yes

## - Fine Mineral media:

Species: Rabbit

Result: Mild skin irritation

### Serious eye damage/eye irritation

#### Product:

Remarks: May cause irreversible eye damage.

## **Components:**

## 25068-38-6 Epoxy Resin:

Species: Rabbit Result: Eye irritation

### Respiratory or skin sensitisation

#### **Product:**

Remarks: Causes sensitisation.

## **Components:**

# 25068-38-6 Epoxy Resin:

Test Type: Mouse Local Lymph Node assay (LLNA)

Species: Mouse

Method: OECD Test Guideline 429

Result: May cause sensitisation by skin contact.

GLP: yes

## Carcinogenicity



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**IARC** Group 2B: Possibly carcinogenic to humans

> Carbon black 1333-86-4

**ACGIH** No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by ACGIH.

**OSHA** No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

**NTP** No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

**Aspiration toxicity** 

**Components:** 

25068-38-6 Epoxy Resin:

No aspiration toxicity classification

**Further information** 

**Product:** 

Remarks: No data available

### **SECTION 12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

## **Components:**

25068-38-6 Epoxy Resin:

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia (water flea)): 1.7 mg/l

Exposure time: 48 h

Test Type: static test

Method: OECD Test Guideline 202

GLP: yes

aquatic invertebrates (Chronic toxicity)

Toxicity to daphnia and other : NOEC (Daphnia magna (Water flea)): 0.3 mg/l

Exposure time: 21 d Test Type: semi-static test

Method: OECD Test Guideline 211

GLP: yes

Persistence and degradability

Components:



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25068-38-6 Epoxy Resin:

Biodegradability

: Result: Not readily biodegradable. Method: OECD Test Guideline 301F

GLP: yes

**Bioaccumulative potential** 

**Components:** 

25068-38-6 Epoxy Resin:

Partition coefficient: n-

octanol/water

: log Pow: 3,242 (25 °C)

pH: 7.1

Method: OECD Test Guideline 117

GLP: yes

Mobility in soil No data available

Other adverse effects
No data available

**Product:** 

Regulation

40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act

Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological

information

: No data available

### **SECTION 13. DISPOSAL CONSIDERATIONS**

Disposal methods

**EPA Hazardous Waste** 

Code(s)

: none

Waste from residues

: Do not dispose of waste into sewer.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Send to a licensed waste management company.

Catalyzed resin can generate hazardous exothermic heat if allowed to polymerize in a mass. All soiled or waste materials must be water soaked, and kept in a closed bin until disposed

of.

Dispose of the solid mass only if cure is complete and the mass has cooled. Follow federal, state or local disposal

regulations.



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Contaminated packaging

: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

### **SECTION 14. TRANSPORT INFORMATION**

#### International Regulations

**IATA-DGR** 

Not regulated as a dangerous good

**IMDG-Code** 

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

**National Regulations** 

**49 CFR** 

Not regulated as a dangerous good

#### **SECTION 15. REGULATORY INFORMATION**

### **EPCRA - Emergency Planning and Community Right-to-Know Act**

US. EPA CERCLA Hazardous Substances (40 CFR 302)

This material does not contain any components with a CERCLA RQ.

SARA 304 - Emergency Release Notification

This material does not contain any components with a section 304 EHS RQ.

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)

This material does not contain any components with a SARA 302 RQ.

SARA 311/312 Hazards

: Per the June 13, 2016 Federal Register notice, EPA harmonized the EPCRA 311/312 hazard categories with the 2012 OSHA hazard communication standard for classifying and labeling of chemicals (i.e. GHS). Please refer to Section 2 of the SDS to identify the appropriate hazard categories for

reporting purposes.

**SARA 302** 

: No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

**SARA 313** 

: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.



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#### Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Non-volatile (Wt)

: Refer to the product technical data sheet for VOC information.

#### **Massachusetts Right To Know**

Fine Mineral media

Crystalline silica 14808-60-7 Cristobalite (SiO2) 14464-46-1

### Pennsylvania Right To Know

**Epoxy Resin** 25068-38-6 Aluminium hydroxide 21645-51-2

Fine Mineral media

Alkyl (C12, C14) glycidyl ether Not Assigned

### **New Jersey Right To Know**

**Epoxy Resin** 25068-38-6 Aluminium hydroxide 21645-51-2

Fine Mineral media

Alkyl (C12, C14) glycidyl ether Not Assigned Carbon black 1333-86-4

: NOT APPLICABLE

**New Jersey Trade Secret** 

Registry Number for the

product (NJ TSRN)

California Prop 65 WARNING! This product contains a chemical known to the

State of California to cause cancer.

Carbon black 1333-86-4 Crystalline silica 14808-60-7 Cristobalite (SiO2) 14464-46-1 Phenyl glycidyl ether 122-60-1

# The components of this product are reported in the following inventories:

**TSCA** 

: We certify that all of the components of this product are either

listed on the TSCA Inventory or are not subject to the

notification requirements per 40 CFR 720 30(h).

Section 4 / 12(b) : Not applicable



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Section 5

: We certify that all of the components of this product are listed

DSF

:A97N

on the DSL.

Not applicable

## SECTION 16. OTHER INFORMATION

Further information

#### :III SIMH

0	PHYSICAL HAZARD	
L	YTIJIBAMMAJA	
5*	нтлаэн	

0 = not significant, 1 = Slight,

Instability

Flammability

Special hazard.

2 = Moderate, 3 = High 4 = Extreme, \* = Chronic

: 08/08/5016

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other materials or in any process, unless specified in the text. specific material designated and may not be valid for such material used in combination with any not to be considered a warranty or quality specification. The information relates only to the guidance for safe handling, use, processing, storage, transportation, disposal and release and is information and belief at the date of its publication. The information given is designed only as a The information provided in this Safety Data Sheet is correct to the best of our knowledge,