

ELAN-Cast® C 023 FR Hardener

Version 6

Revision Date 05/07/2015

Print Date 05/07/2015

SECTION 1. IDENTIFICATION

Product name

: ELAN-Cast® C 023 FR Hardener

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

E-mail address Emergency telephone Todd.Thomas@altana.com 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 corrosion

: Category 1B

Serious eye damage

: Category 1

Skin sensitisation

: Category 1

Carcinogenicity

: Category 1A

Reproductive toxicity

: Category 2

GHS Label element

Hazard pictograms



Signal word

: Danger

Hazard statements

: H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction. H318 Causes serious eye damage.

H350 May cause cancer.

H361 Suspected of damaging fertility or the unborn child.

Precautionary statements

: Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read



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and understood.

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

P264 Wash skin thoroughly after handling.

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

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

P281 Use personal protective equipment as required.

Response:

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304 + P340 + P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician. P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.

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

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P363 Wash contaminated clothing before reuse.

Storage:

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 Aliphatic Amidoamine/Alkylphenol Blend

Hazardous components

Component	CAS-No.	Concentration (%)	
Aluminium hydroxide	21645-51-2	>= 38 - < 39	
Fine Mineral media	-	>= 27 - < 28	
Fatty acid amine	68953-36-6	>= 15 - < 16	
Nonylphenol	84852-15-3	>= 7 -< 8	
Tetraethylenepentamine	112-57-2	>= 3 -< 4	



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Aliphatic amine	140-31-8	>= 3 - < 4	
Triethylenetetramine	112-24-3	>=1 -<2	
Phenol, 2-nonyl-, branched	91672-41-2	>= 0 -< 1	
Phenol, dinonyl-	1323-65-5	>= 0 -<1	
Crystalline silica	14808-60-7	>= 0 -<1	
4-Morpholinecarboxaldehyde	4394-85-8	>= 0 -<1	

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.

Consult a physician.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

Move out of dangerous area.

Consult a physician.

Show this safety data sheet to the doctor in attendance.

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

advice.

If symptoms persist, call a physician.

Move to fresh air.

Consult a physician after significant exposure.

In case of skin contact : Immediate medical treatment is necessary as untreated

wounds from corrosion of the skin heal slowly and with

difficulty.

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

Take off contaminated clothing and shoes immediately.

Wash off with soap and plenty of water.

Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with

difficulty.

In case of eye contact : Small amounts splashed into eyes can cause irreversible

tissue damage and blindness.

In the case of contact with eyes, rinse immediately with plenty

of water and seek medical advice.

Continue rinsing eyes during transport to hospital.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

Small amounts splashed into eyes can cause irreversible

tissue damage and blindness.



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In the case of contact with eyes, rinse immediately with plenty

of water and seek medical advice.

Continue rinsing eyes during transport to hospital.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If swallowed

Keep respiratory tract clear. Do NOT induce vomiting.

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.

Clean mouth with water and drink afterwards plenty of water.

Do NOT induce vomiting.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

Take victim immediately to hospital.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during

firefighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

Do not allow run-off from fire fighting to enter drains or water

courses.

Further information

: Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

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must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment :

for firefighters

Wear self-contained breathing apparatus for firefighting if

necessary.

In the event of fire, wear self-contained breathing apparatus.



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SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

: Use personal protective equipment.

Use personal protective equipment.
 Ensure adequate ventilation.
 Evacuate personnel to safe areas.

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.

Do not flush into surface water or sanitary sewer system.

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.

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acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling

: For personal protection see section 8.

Persons with a history of 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.

Smoking, eating and drinking should be prohibited in the

application area.

To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national

regulations.

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.

To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national



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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.

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 (Form of exposure)	Control parameters / Permissible concentration	Basis
Aluminium hydroxide	21645-51-2	TWA (Respirable fraction)	1 mg/m3 (Aluminium)	ACGIH
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 PO
Tetraethylenepentamine	112-57-2	TWA	5 mg/m3	US WEEL
Triethylenetetramine	112-24-3	TWA	1 ppm	US WEEL
Crystalline silica	14808-60-7	TWA (total dust)	30 mg/m3 / %SiO2+2	OSHA Z-3
		TWA (respirable)	250 mppcf / %SiO2+5	OSHA Z-3
		TWA (respirable)	10 mg/m3 / %SiO2+2	OSHA Z-3
		TWA (respirable dust fraction)	0.1 mg/m3	OSHA P0
		TWA (Respirable fraction)	0.025 mg/m3 (Silica)	ACGIH

Engineering measures

: Use with adequate ventilation.



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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

: Wear an appropriate, properly-fitted respirator (NIOSH/MSHA approved) during and after application unless air monitoring demonstrates that vapor/mist levels are below applicable limits. Follow respirator manufacturer's directions for respirator use.

In the case of vapour formation use a respirator with an

approved filter.

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.

Polyvinyl alcohol or nitrile- butyl-rubber gloves The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Before removing gloves clean them with soap and water,

Eye protection

Eye wash bottle with pure water Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

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.

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.



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Wash hands before breaks and at the end of workday.

Handle in accordance with good industrial hygiene and safety

practice.

Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

: liquid

Odour Threshold

: No data available

ρН

: No data available

Melting point/freezing point

: No data available

Initial boiling point and boiling

: No data available

range

Flash point

: Greater than 201 °F (94 °C)

Method: Literature Value

Evaporation rate

: No data available

Upper explosion limit

: No data available

Lower explosion limit

: No data available

Vapour pressure

: No data available

Relative vapour density

: No data available

Relative Density/Specific

Gravity

: No data available

Density

: 1.6440 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



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Viscosity

Viscosity, dynamic : No data available

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.

Stable under recommended storage conditions.

Chemical stability : No decomposition if stored and applied as directed.

No decomposition if stored and applied as directed.

Possibility of hazardous

reactions

: No decomposition if stored and applied as directed.

Stable under recommended storage conditions.

No decomposition if used as directed.

Conditions to avoid : No data available

No data available

Hazardous decomposition

products

: Ammonia

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

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

Method: Calculation method

Components:

21645-51-2 Aluminium hydroxide:

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

- Fine Mineral media:

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

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84852-15-3 Nonylphenol:

Acute oral toxicity

: LD50 (Rat): 1,882 mg/kg

Acute dermal toxicity

: LD50 (Rabbit): 3,160 mg/kg

112-57-2 Tetraethylenepentamine:

Acute oral toxicity

: LD50 Oral (Rat): 3,990 mg/kg

Acute dermal toxicity

: LD50 (Rat): 660 mg/kg

140-31-8 Aliphatic amine:

Acute oral toxicity

: LD50 (Rat, male): 2,097 mg/kg

Acute dermal toxicity

: LD50 (Rabbit, male): 866 mg/kg

112-24-3 Triethylenetetramine:

Acute oral toxicity

: LD50 (Rat): 2,500 mg/kg

Acute dermal toxicity : LD50 (Rabbit): 805 mg/kg

4394-85-8 4-Morpholinecarboxaldehyde:

Acute oral toxicity

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

Acute dermal toxicity

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

Skin corrosion/irritation

Product:

Remarks: Extremely corrosive and destructive to tissue.

Remarks: Extremely corrosive and destructive to tissue.

Components:

- Fine Mineral media:

Species: Rabbit

Result: Mild skin irritation

84852-15-3 Nonyiphenol:

Result: Corrosive

140-31-8 Aliphatic amine:

Species: Rabbit Result: Corrosive

112-24-3 Triethylenetetramine:

Method: OECD Test Guideline 435

Result: Corrosive



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Serious eye damage/eye irritation

Product:

Remarks: May cause irreversible eye damage.

Remarks: May cause irreversible eye damage.

Components:

84852-15-3 Nonylphenol: Result: Severe eye irritation

140-31-8 Aliphatic amine:

Species: Rabbit

Result: Risk of serious damage to eyes.

112-24-3 Triethylenetetramine:

Species: Rabbit

Result: Corrosive to eyes

Respiratory or skin sensitisation

Product:

Remarks: Causes sensitisation.

Remarks: Causes sensitisation.

Components:

140-31-8 Aliphatic amine:

Test Type: Maximisation Test (GPMT)

Exposure routes: Dermal Species: Guinea pig

Method: OECD Test Guideline 406

Result: May cause sensitisation by skin contact.

112-24-3 Triethylenetetramine:

Test Type: Buehler Test Exposure routes: Dermal Species: Guinea pig

Method: OECD Test Guideline 406

Result: May cause sensitisation by skin contact.

GLP: yes

Germ cell mutagenicity

Components:

84852-15-3 Nonylphenol:

Genotoxicity in vitro

: Test Type: Ames test Result: negative



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Carcinogenicity

IARC Group 1: Carcinogenic to humans

> Crystalline silica 14808-60-7

ACGIH Suspected human carcinogen

> Crystalline silica 14808-60-7

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 Known to be human carcinogen

> Crystalline silica 14808-60-7

Further information

Product:

Remarks: No data available Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

21645-51-2 Aluminium hydroxide:

Toxicity to fish : LC50 (Fish): > 10,000 mg/l

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 10,000 mg/l

aquatic invertebrates

140-31-8 Aliphatic amine:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 2,190 mg/l

> Exposure time: 96 h Test Type: static test

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 58 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae : ErC50 (Selenastrum capricornutum (green algae)): > 1,000

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

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GLP: yes

4394-85-8 4-Morpholinecarboxaldehyde:

Toxicity to fish

: LC50 (Leuciscus idus (Golden orfe)): > 500 mg/l

Exposure time: 96 h Method: DIN 38412

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 500 mg/l

Exposure time: 48 h

Toxicity to algae

: EC50 (Scenedesmus subspicatus): 23,880 mg/l

Exposure time: 72 h

EC10 (Scenedesmus subspicatus): 17,040 mg/l

Exposure time: 72 h

Persistence and degradability

Components:

140-31-8 Aliphatic amine:

Biodegradability

: Result: Not readily biodegradable.

Method: OECD Test Guideline 301F

GLP: yes

4394-85-8 4-Morpholinecarboxaldehyde:

Biodegradability

: Result: Readily biodegradable

Method: OECD Test Guideline 301A

GLP: yes

Bioaccumulative potential

Components:

140-31-8 Aliphatic amine:

Partition coefficient: n-

octanol/water

: log Pow: -1.48 (20 °C)

4394-85-8 4-Morpholinecarboxaldehyde:

Bioaccumulation

: Species: Cyprinus carpio (Carp)

Bioconcentration factor (BCF): < 1.9

Exposure time: 56 d

Method: OECD Test Guideline 305C

Mobility in soil

Components:

140-31-8 Aliphatic amine:

Distribution among

: Medium: Soil

environmental compartments

Koc: 37000



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Other adverse effects

Product:

Results of PBT and vPvB

assessment

 This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher.

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

An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Toxic to aquatic organisms, may cause long-term adverse

effects in the aquatic environment.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

EPA Hazardous Waste

Code(s)

: D002: Corrosive

Waste from residues : The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Offer surplus and non-recyclable solutions to a licensed

disposal company.

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.

Contaminated packaging

: Empty remaining contents.
Dispose of as unused product.

Do not re-use empty containers.

Empty remaining contents.

Dispose of as unused product.

Do not re-use empty containers.



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SECTION 14. TRANSPORT INFORMATION

International Regulation

IATA-DGR

UN/ID No.

: UN 1760

Proper shipping name

: Corrosive liquid, n.o.s.

(Triethylenetetramine, Nonylphenol)

Class

: 8

Packing group

: ##

Labels

: Corrosive

Packing instruction (cargo

: 856

aircraft)

Packing instruction

: 852

(passenger aircraft)

IMDG-Code

UN number

: UN 1760

Proper shipping name

: CORROSIVE LIQUID, N.O.S.

(Triethylenetetramine, Nonylphenol)

Class

: 8

Packing group Labels

: 111 : 8

EmS Code

: F-A, S-B

Marine pollutant

: yes

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

UN/ID/NA number

: UN 1760

Proper shipping name

: Corrosive liquids, n.o.s.

(Triethylenetetramine, Nonylphenol)

Class

: 8

Packing group

: 111

Labels

: Corrosive

ERG Code Marine pollutant : 154 : no

SECTION 15. REGULATORY INFORMATION

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

CERCLA Reportable Quantity

Calculated RQ exceeds reasonably attainable upper limit.



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SARA 304 Extremely Hazardous Substances Reportable Quantity

Calculated RQ exceeds reasonably attainable upper timit.

SARA 302 Extremely Hazardous Substances Reportable Quantity

Calculated RQ exceeds reasonably attainable upper limit.

SARA 311/312 Hazards

: Acute Health Hazard

Chronic Health Hazard

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.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (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.

US State Regulations

Massachusetts Right To Know

 Fine Mineral media

 Tetraethylenepentamine
 112-57-2

 Aliphatic amine
 140-31-8

 Triethylenetetramine
 112-24-3

 Crystalline silica
 14808-60-7

 Phenol
 108-95-2

 Cristobalite (SiO2)
 14464-46-1

Pennsylvania Right To Know

Aluminium hydroxide 21645-51-2
Fine Mineral media Fatty acid amine 68953-36-6
Nonylphenol 84852-15-3
Tetraethylenepentamine 112-57-2
Aliphatic amine 140-31-8
Triethylenetetramine 112-24-3



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 Phenol
 108-95-2

New Jersey Right To Know

Aluminium hydroxide 21645-51-2
Fine Mineral media Fatty acid amine 68953-36-6
Nonylphenol 84852-15-3
Tetraethylenepentamine 112-57-2
Aliphatic amine 140-31-8
Triethylenetetramine 112-24-3

New Jersey Trade Secret Registry Number for the product (NJ TSRN)

Crystalline silica

: NOT APPLICABLE

California Prop 65

WARNING! This product contains a chemical known to the

14808-60-7

State of California to cause cancer.

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

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

Section 5

Not applicable

DSL

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

on the DSL.



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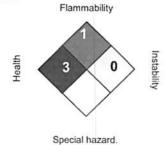
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SECTION 16. OTHER INFORMATION

Further information

NFPA:



HMIS III:

HEALTH	3*
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight, 2 = Moderate, 3 = High 4 = Extreme, * = Chronic

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