

**ForSField™ G-75H hardener**

Version 1.0

Revision Date 2016-07-26

SECTION 1: Identification of the substance/mixture and of the company/undertaking**Product information**

Product Name : ForSField™ G-75H hardener
Material : 1112357, 1112356

Company : Chevron Phillips Chemical Company LP
10001 Six Pines Drive
The Woodlands, TX 77380

Local : Chevron Phillips Chemicals International N.V.
Airport Plaza (Stockholm Building)
Leonardo Da Vincilaan 19
1831 Diegem
Belgium

SDS Requests: (800) 852-5530
Technical Information: (832) 813-4862
Responsible Party: Product Safety Group
Email:sds@cpchem.com

Emergency telephone:**Health:**

866.442.9628 (North America)
1.832.813.4984 (International)

Transport:

CHEMTREC 800.424.9300 or 703.527.3887(int'l)
Asia: +800 CHEMCALL (+800 2436 2255) China:+86-21-22157316
EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)
South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600

Responsible Department : Product Safety and Toxicology Group
E-mail address : SDS@CPChem.com
Website : www.CPChem.com

SECTION 2: Hazards identification**Classification of the substance or mixture
REGULATION (EC) No 1272/2008**

Acute toxicity, Category 4

H302:

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Acute toxicity, Category 4	Harmful if swallowed. H332:
Acute toxicity, Category 3	Harmful if inhaled. H311:
Skin corrosion, Category 1A	Toxic in contact with skin. H314:
Serious eye damage, Category 1	Causes severe skin burns and eye damage. H318:
Respiratory sensitization, Category 1	Causes serious eye damage. H334:
Skin sensitization, Category 1	May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317:
Chronic aquatic toxicity, Category 2	May cause an allergic skin reaction. H411:
	Toxic to aquatic life with long lasting effects.

Label elements**Labeling (REGULATION (EC) No 1272/2008)**

Hazard pictograms

:



Signal Word

: Danger

Hazard Statements

: H302 + H332
H311
H314
H317
H334

H411Harmful if swallowed or if inhaled.
Toxic in contact with skin.
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Toxic to aquatic life with long lasting effects.

Precautionary Statements

: **Prevention:**

P261

Avoid breathing
dust/fume/gas/mist/vapors/spray.

P280

Wear protective gloves/ protective clothing/
eye protection/ face protection.**Response:**

P303 + P361 + P353

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

P304 + P340 + P310

IF INHALED: Remove person to fresh
air and keep comfortable for breathing.
Immediately call a POISON
CENTER/doctor.

P305 + P351 + P338

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

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/doctor.

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Hazardous ingredients which must be listed on the label:

- 6864-37-5 Cyclohexanamine, 4,4'-methylenebis[2-methyl-
- 140-31-8 1-Piperazineethanamine

SECTION 3: Composition/information on ingredients

Molecular formula : Mixture

Mixtures**Hazardous ingredients**

Chemical name	CAS-No. EC-No. Index No.	Classification (REGULATION (EC) No 1272/2008)	Concentration [wt%]
Cyclohexanamine, 4,4'-methylenebis[2-methyl-	6864-37-5 229-962-1 612-110-00-1	Acute Tox. 4; H302 Acute Tox. 2; H330 Acute Tox. 3; H311 Skin Corr. 1A; H314 Aquatic Chronic 2; H411	30 - 60
Amine-Terminated Poly(Acrylonitrile-Butadiene)	68683-29-4		10 - 30
Dipropylene glycol dibenzoate	27138-31-4 248-258-5		5 - 10
1-Piperazineethanamine	140-31-8 205-411-0 612-105-00-4	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Corr. 1B; H314 Skin Sens. 1; H317 Aquatic Chronic 3; H412	1 - 3

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

- General advice : Move out of dangerous area. Consult a physician. Show this material safety data sheet to the doctor in attendance.
- If inhaled : Call a physician or poison control center immediately. If unconscious place in recovery position and seek medical advice.
- 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.
- 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

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- 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.
- If swallowed : Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

SECTION 5: Firefighting measures

- Flash point : 140 °C (284 °F)
Method: closed cup
- Unsuitable extinguishing media : High volume water jet.
- Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.
- 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.
- Fire and explosion protection : Normal measures for preventive fire protection.

SECTION 6: Accidental release measures

- Personal precautions : Use personal protective equipment. Ensure adequate ventilation.
- 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 for 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.

SECTION 7: Handling and storage**Handling**

- Advice on safe handling : Avoid formation of aerosol. Do not breathe vapors/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. To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national regulations. Persons susceptible to skin

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sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Storage

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

SECTION 8: Exposure controls/personal protection**Ingredients with workplace control parameters**

DK

Komponenter	Basis	Værdi	Kontrolparametre	Note
Cyclohexanamine, 4,4'-methylenebis[2-methyl-	DK OEL	GV	1 ppm,	

Engineering measures

Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

Personal protective equipment

Respiratory protection : Wear a supplied-air NIOSH approved respirator unless ventilation or other engineering controls are adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure. Wear a NIOSH approved respirator that provides protection when working with this material if exposure to harmful levels of airborne material may occur, such as: Full-Face Supplied-Air Respirator. Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection.

Hand protection : The suitability for a specific workplace should be discussed with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Eye protection : Eye wash bottle with pure water. Wear face-shield and protective suit for abnormal processing problems.

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Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place. Wear as appropriate: Protective suit. Safety shoes.

Hygiene measures : Avoid contact with skin, eyes and clothing. When using do not eat or drink. When using do not smoke. Wash hands before breaks and immediately after handling the product.

SECTION 9: Physical and chemical properties**Information on basic physical and chemical properties****Appearance**

Form : Liquid
Physical state : Liquid
Color : Amber, Dark Brown
Odor : Mild

Safety data

Flash point : 140 °C (284 °F)
Method: closed cup

Lower explosion limit : No data available

Upper explosion limit : No data available

Molecular formula : Mixture

Molecular weight : Not applicable

pH : No data available

Pour point : -7 °C (19 °F)

Boiling point/boiling range : > 100 °C (> 212 °F)

Vapor pressure : < 1,00 MMHG

Density : 8,176 L/G

Water solubility : Negligible

SECTION 10: Stability and reactivity

Chemical stability : This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Possibility of hazardous reactions

Conditions to avoid : No data available.

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Other data : No decomposition if stored and applied as directed.

SECTION 11: Toxicological information**ForSField™ G-75H hardener**

Acute oral toxicity : Acute toxicity estimate: 1.350 mg/kg
Method: Calculation method

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Acute inhalation toxicity : Acute toxicity estimate: 1,17 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: Calculation method

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Acute dermal toxicity : Acute toxicity estimate: 826,76 mg/kg
Method: Calculation method

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Skin irritation : Extremely corrosive and destructive to tissue.

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Eye irritation : May cause irreversible eye damage.

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Sensitization : Causes sensitization.

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Further information : No data available.

SECTION 12: Ecological information**Toxicity to fish**

Cyclohexanamine, 4,4'-methylenebis[2-methyl- : LC50: > 21,5 - < 46,4 mg/l
Exposure time: 96 h
Species: Leuciscus idus (Golden orfe)
static test

Toxicity to daphnia and other aquatic invertebrates

Cyclohexanamine, 4,4'-methylenebis[2-methyl- : EC50: 4,6 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 202

1-Piperazineethanamine : EC50: 58 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)
static test Method: OECD Test Guideline 202

Toxicity to algae

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Cyclohexanamine, 4,4'-methylenebis[2-methyl- : EC50: > 5,0 mg/l
Exposure time: 72 h
Species: Desmodesmus subspicatus (green algae)
static test Method: OECD Test Guideline 201

1-Piperazineethanamine : EC50: > 1.000 mg/l
Exposure time: 72 h
Species: Selenastrum capricornutum (algae)
Growth inhibition Method: OECD Test Guideline 201

Biodegradability

Cyclohexanamine, 4,4'-methylenebis[2-methyl- : Result: Not readily biodegradable.
0 %
Testing period: 28 d
Method: OECD Test Guideline 301

Ecotoxicology Assessment

Acute aquatic toxicity
1-Piperazineethanamine : Harmful to aquatic life.

Chronic aquatic toxicity
Cyclohexanamine, 4,4'-methylenebis[2-methyl- : Toxic to aquatic life with long lasting effects.
1-Piperazineethanamine : Harmful to aquatic life with long lasting effects.

Additional ecological information : Toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

The information in this SDS pertains only to the product as shipped.

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

Product : 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. Send to a licensed waste management company.

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

SECTION 14: Transport information

The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments in non-bulk packages (see regulatory definition).

Consult the appropriate domestic or international mode-specific and quantity-specific Dangerous

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Goods Regulations for additional shipping description requirements (e.g., technical name or names, etc.) Therefore, the information shown here, may not always agree with the bill of lading shipping description for the material. Flashpoints for the material may vary slightly between the SDS and the bill of lading.

US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)

UN2922, CORROSIVE LIQUIDS, TOXIC, N.O.S., (CYCLOALIPHATIC DIAMINE), 8 (6.1), II

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

UN2922, CORROSIVE LIQUID, TOXIC, N.O.S., (CYCLOALIPHATIC DIAMINE), 8 (6.1), II, (140 °C), MARINE POLLUTANT, (CYCLOALIPHATIC DIAMINE)

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

UN2922, CORROSIVE LIQUID, TOXIC, N.O.S., (CYCLOALIPHATIC DIAMINE), 8 (6.1), II

ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))

UN2922, CORROSIVE LIQUID, TOXIC, N.O.S., (CYCLOALIPHATIC DIAMINE), 8 (6.1), II, (E), ENVIRONMENTALLY HAZARDOUS, (CYCLOALIPHATIC DIAMINE)

RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))

UN2922, CORROSIVE LIQUID, TOXIC, N.O.S., (CYCLOALIPHATIC DIAMINE), 8 (6.1), II, ENVIRONMENTALLY HAZARDOUS, (CYCLOALIPHATIC DIAMINE)

ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS)

UN2922, CORROSIVE LIQUID, TOXIC, N.O.S., (CYCLOALIPHATIC DIAMINE), 8 (6.1), II, ENVIRONMENTALLY HAZARDOUS, (CYCLOALIPHATIC DIAMINE)

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

SECTION 15: Regulatory information**National legislation****Major Accident Hazard Legislation**

: 96/82/EC Update: 2003

Toxic

2

Quantity 1: 50 t

Quantity 2: 200 t

: 96/82/EC Update: 2003

Dangerous for the environment

9b

Quantity 1: 200 t

Quantity 2: 500 t

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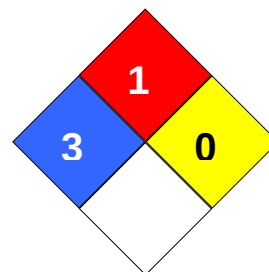
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Notification status

Europe REACH	:	Not in compliance with the inventory
United States of America TSCA	:	On TSCA Inventory
Canada DSL	:	This product contains one or several components that are not on the Canadian DSL nor NDSL.
Australia AICS	:	Not in compliance with the inventory
New Zealand NZIoC	:	Not in compliance with the inventory
Japan ENCS	:	Not in compliance with the inventory
Korea KECI	:	Not in compliance with the inventory
Philippines PICCS	:	Not in compliance with the inventory
China IECSC	:	Not in compliance with the inventory

SECTION 16: Other information

NFPA Classification : Health Hazard: 3
Fire Hazard: 1
Reactivity Hazard: 0

**Further information**

Significant changes since the last version are highlighted in the margin. This version replaces all previous versions.

The information in this SDS pertains only to the product as shipped.

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.

Key or legend to abbreviations and acronyms used in the safety data sheet

ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit

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EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%		

Full text of H-Statements referred to under sections 2 and 3.

H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

**ForSField™ G-75R epoxy resin**

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**Product information**

Product Name : ForSField™ G-75R epoxy resin
Material : 1115745, 1115744, 1112355, 1112354

Company : Chevron Phillips Chemical Company LP
10001 Six Pines Drive
The Woodlands, TX 77380

Local : Chevron Phillips Chemicals International N.V.
Airport Plaza (Stockholm Building)
Leonardo Da Vincilaan 19
1831 Diegem
Belgium

SDS Requests: (800) 852-5530
Technical Information: (832) 813-4862
Responsible Party: Product Safety Group
Email:sds@cpchem.com

Emergency telephone:**Health:**

866.442.9628 (North America)
1.832.813.4984 (International)

Transport:

CHEMTREC 800.424.9300 or 703.527.3887(int'l)
Asia: +800 CHEMCALL (+800 2436 2255) China:+86-21-22157316
EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)
South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600

Responsible Department : Product Safety and Toxicology Group
E-mail address : SDS@CPChem.com
Website : www.CPChem.com

SECTION 2: Hazards identification**Classification of the substance or mixture
REGULATION (EC) No 1272/2008**

Skin irritation, Category 2

H315:

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Eye irritation, Category 2

Causes skin irritation.

Skin sensitization, Category 1

H319:

Causes serious eye irritation.

Carcinogenicity, Category 2

H317:

May cause an allergic skin reaction.

Germ cell mutagenicity, Category 2

H351:

Suspected of causing cancer.

Chronic aquatic toxicity, Category 2

H341:

Suspected of causing genetic defects.

H411:

Toxic to aquatic life with long lasting effects.

Label elements**Labeling (REGULATION (EC) No 1272/2008)**

Hazard pictograms

:



Signal Word

: Warning

Hazard Statements

:

H315

Causes skin irritation.

H317

May cause an allergic skin reaction.

H319

Causes serious eye irritation.

H341

Suspected of causing genetic defects.

H351

Suspected of causing cancer.

H411

Toxic to aquatic life with long lasting effects.

Precautionary Statements

:

Prevention:

P201

Obtain special instructions before use.

P261

Avoid breathing
dust/fume/gas/mist/vapors/spray.

P273

Avoid release to the environment.

P280

Wear protective gloves/ eye protection/ face
protection.

P281

Use personal protective equipment as
required.**Response:**

P308 + P313

IF exposed or concerned: Get medical
advice/ attention.

Hazardous ingredients which must be listed on the label:

- 28064-14-4 Epoxy Phenol Novolac
- 13463-67-7 Titanium Dioxide

SECTION 3: Composition/information on ingredients**Mixtures****Hazardous ingredients**

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Chemical name	CAS-No. EC-No. Index No.	Classification (REGULATION (EC) No 1272/2008)	Concentration [wt%]
Epoxy Phenol Novolac	28064-14-4	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Chronic 2; H411	30 - 60
o-Cresol Glycidyl Ether	2210-79-9 218-645-3 603-056-00-X	Skin Irrit. 2; H315 Skin Sens. 1; H317 Muta. 2; H341 Aquatic Chronic 2; H411	5 - 15
Titanium Dioxide	13463-67-7 236-675-5		0,1 - 3

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

- General advice : Move out of dangerous area. Show this material 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.
- 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 : Do not induce vomiting without medical advice. Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.

SECTION 5: Firefighting measures

- Flash point : > 93 °C (> 200 °F)
Method: ASTM D 93
- Unsuitable extinguishing media : High volume water jet.
- Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.
- 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

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accordance with local regulations.

Fire and explosion protection : Normal measures for preventive fire protection.

SECTION 6: Accidental release measures

Personal precautions : Use personal protective equipment.

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 for 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.

SECTION 7: Handling and storage**Handling**

Advice on safe handling : Do not breathe vapors/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. Dispose of rinse water in accordance with local and national regulations. Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Storage

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

SECTION 8: Exposure controls/personal protection**Ingredients with workplace control parameters****SK**

Zložka	Podstata	Hodnota	Kontrolné parametre	Poznámka
Alumina Oxide	SK OEL	NPEL priemerný	1,5 mg/m3	respirabilná frakcia
	SK OEL	NPEL priemerný	4 mg/m3	inhalovateľná frakcia
	SK OEL	NPEL priemerný	0,1 mg/m3	4, 3, Tabuľka č. 2, 1, 5, respirabilná frakcia
	SK OEL	NPEL priemerný	1,5 mg/m3	Pevný aerosol, respirabilná frakcia
	SK OEL	NPEL priemerný	0,1 mg/m3	4, 3, Tabuľka č. 2, 1, 5, Pevný aerosol, respirabilná frakcia
Titanium Dioxide	SK OEL	NPEL priemerný	5 mg/m3	

1 Za fibrogénny sa považuje nerozpustný pevný aerosól, vrátane kvapiek aerosólu, ktorý obsahuje viac ako 1 % fibrogénnej zložky a

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v pokuse na zvierati vykazuje zreteľnú fibrogénnu reakciu pľúcneho tkaniva. Ak je v aerosóle obsiahnutá fibrogénna zložka, musí sa stanoviť vždy jeho respirabilná frakcia a koncentrácia fibrogénnej zložky. V prípade, že aerosól obsahuje menej než 1 % SiO₂ a neobsahuje azbest, považuje sa za aerosól s prevažne nešpecifickým účinkom

- 3 Respirabilná frakcia je váhový podiel častíc pevného aerosólu $\leq 5 \mu\text{m}$ odobraného vo vzorke ovzdušia v dýchacej zóne zamestnanca. Spôsob a techniku odberu, stanovenie koncentrácie polietavého prachu v respirabilnej a inhalovateľnej frakcii v pracovnom ovzduší podľa prijatej Johannesburgskej konvencie upravuje STN EN 481. Stratégiu merania, výber vhodného postupu a spracovanie výsledkov upravuje STN EN 482 a STN EN 689.

- 4 Fr je obsah fibrogénnej zložky v percentách v respirabilnej frakcii. Fibrogénna zložka - kremeň, kristobalit, tridymit, gama - oxid hlinitý.

- 5 Kremeň, kristobalit, tridymit, gama-oxid hlinitý je 100 % fibrogénnej zložky.

Tabuľka č. 2 pevné aerosóly s prevažne fibrogénnym účinkom

SI

Sestavine	Osnova	Vrednost	Parametri nadzora	Pripomba
Titanium Dioxide	SI OEL	MV	500.000vl/m3	Prah

SE

Beständsdelar	Grundval	Värde	Kontrollparametrar	Anmärkning
Alumina Oxide	SE AFS	NGV	5 mg/m3	2, Total
	SE AFS	NGV	2 mg/m3	2, Respirabelt
	SE AFS	NGV	5 mg/m3	2, Totalt damm
	SE AFS	NGV	2 mg/m3	2, (respirabelt damm)
Titanium Dioxide	SE AFS	NGV	5 mg/m3	2, Total
	SE AFS	NGV	5 mg/m3	2, Totalt damm

- 2 Med respirabelt damm menas den dammfraction som definieras i svensk standard SS-EN 481, Arbetsplatsluft. - Partikelstorleksfraktioner för mätning av luftburna partiklar, Utgåva 1, 1993, punkt 2.11 och som har en provtagningskaraktäristik enligt punkt 5.3. Med inhalerbart damm menas den dammfraction som definieras i svensk standard SS-EN 481, Arbetsplatsluft - Partikelstorleksfraktioner för mätning av luftburna partiklar, Utgåva 1, 1993, punkt 2.3 och som har en provtagningskaraktäristik enligt punkt 5.1. Med respirabelt damm menas den dammfraction som definieras i svensk standard SS-EN 481, Arbetsplatsluft - Partikelstorleksfraktioner för mätning av luftburna partiklar, Utgåva 1, 1993, punkt 2.11 och som har en provtagningskaraktäristik enligt punkt 5.3. Med totaldamm menas de partiklar (aerosoler) som fastnar på ett filter i den provtagare som beskrivs i Metodserien, Provtagning av totaldamm och respirabelt damm, Metod nr 1010, Arbetskyddsstyrelsen, numera Arbetsmiljöverket. Filterdiametern är normalt 37 mm, men kan även vara 25 mm. Trots sitt namn provtas inte den totala mängden luftburna partiklar med denna metod.

RO

Componente	Bază	Valoare	Parametri de control	Notă
Alumina Oxide	RO OEL	TWA	0,5 ppm, 2 mg/m3	Aerosol
	RO OEL	STEL	1,2 ppm, 5 mg/m3	Aerosol
Titanium Dioxide	RO OEL	TWA	10 mg/m3	
	RO OEL	STEL	15 mg/m3	

PT

Componentes	Bases	Valor	Parâmetros de controle	Nota
Alumina Oxide	PT OEL	VLE-MP	1 mg/m3	A4, irritação do TRS, Fração respirável
Titanium Dioxide	PT OEL	VLE-MP	10 mg/m3	A4, irritação do TRI,

A4 Agente não classificável como carcinogénico no Homem.
irritação do TRI
irritação do trato respiratório inferior
irritação do trato respiratório superior
TRS

PL

Składniki	Podstawa	Wartość	Parametry dotyczące kontroli	Uwaga
Alumina Oxide	PL NDS	NDS	2,5 mg/m3	całkowity
	PL NDS	NDS	1,5 mg/m3	frakcja respirabilna
	PL NDS	NDS	2,5 mg/m3	frakcja wdychalna, (frakcja wdychana)
	PL NDS	NDS	1,2 mg/m3	Frakcja respirabilna, frakcja respirabilna
Titanium Dioxide	PL NDS	NDS	10 mg/m3	1, Główny kurz
	PL NDS	NDS	10 mg/m3	frakcja wdychalna, pył wdychany

- 1 Pył całkowity - zbiór wszystkich cząstek otoczonych powietrzem w określonej objętości powietrza.
Frakcja respirabilna - frakcja aerozolu wnikać do dróg oddechowych, która stwarza zagrożenie dla zdrowia po zdeponowaniu w obszarze wymiany gazowej.
frakcja wdychalna - frakcja aerozolu wnikać przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia.

NO

Komponenter	Grunnlag	Verdi	Kontrollparametere	Nota
Alumina Oxide	FOR-2011-12-06-1358	TWA	10 mg/m3	1,
	FOR-2011-12-06-1358	TWA	10 mg/m3	1, Støv
Titanium Dioxide	FOR-2011-12-06-1358	TWA	5 mg/m3	

- 1 Grenseverdien er fastsatt lik verdien for sjenerende støv.

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LV

Sastāvdaļas	Bāze	Vērtība	Pārvaldības parametri	Piezīme
Alumina Oxide	LV OEL	AER 8 st	6 mg/m3	
	LV OEL	AER 8 st	6 mg/m3	Dezintegrācijas aerosola
Titanium Dioxide	LV OEL	AER 8 st	10 mg/m3	

LT

Komponentai	Pagrindas, bazė	Vertė	Kontrolės parametrai	Pastaba
Alumina Oxide	LT OEL	IPRD	5 mg/m3	Įkvepiamoji
	LT OEL	IPRD	2 mg/m3	Alveolinė
Titanium Dioxide	LT OEL	IPRD	5 mg/m3	

IE

Ingredients	Basis	Value	Control parameters	Note
Alumina Oxide	IE OEL	OELV - 8 hrs (TWA)	10 mg/m3	total inhalable
	IE OEL	OELV - 8 hrs (TWA)	4 mg/m3	respirable
	IE OEL	OELV - 8 hrs (TWA)	4 mg/m3	(respirable dust)
	IE OEL	OELV - 8 hrs (TWA)	10 mg/m3	inhalable dust
Titanium Dioxide	IE OEL	OELV - 8 hrs (TWA)	10 mg/m3	total inhalable
	IE OEL	OELV - 8 hrs (TWA)	4 mg/m3	respirable
	IE OEL	OELV - 8 hrs (TWA)	4 mg/m3	(respirable dust)
	IE OEL	OELV - 8 hrs (TWA)	10 mg/m3	inhalable dust

HU

Komponensek	Bázis	Érték	Ellenőrzési paraméterek	Megjegyzés
Alumina Oxide	HU OEL	AK-érték	6 mg/m3	respirábilis por
	HU OEL	CK-érték	48 mg/m3	respirábilis por
	HU OEL	AK-érték	6 mg/m3	respirábilis por
	HU OEL	CK-érték	48 mg/m3	respirábilis por

GR

Συστατικά	Βάση	Τιμή	Παράμετροι ελέγχου	Σημείωση
Alumina Oxide	GR OEL	TWA	5 mg/m3	εισπνεύσιμος
	GR OEL	TWA	10 mg/m3	αναπνεύσιμος
Titanium Dioxide	GR OEL	TWA	10 mg/m3	εισπνεύσιμος
	GR OEL	TWA	5 mg/m3	αναπνεύσιμος

GB

Ingredients	Basis	Value	Control parameters	Note
Alumina Oxide	GB EH40	TWA	10 mg/m3	15, 44, 45, 46, 47, 2, Inhalable
	GB EH40	TWA	4 mg/m3	15, 44, 45, 46, 47, 2, Respirable
	GB EH40	TWA	10 mg/m3	15, 44, 45, 46, 47, 2, inhalable dust
	GB EH40	TWA	4 mg/m3	15, 44, 45, 46, 47, 2, (respirable dust)
Titanium Dioxide	GB EH40	TWA	10 mg/m3	15, 44, 45, 46, 47, 2, Inhalable
	GB EH40	TWA	4 mg/m3	15, 44, 45, 46, 47, 2, Respirable
	GB EH40	TWA	10 mg/m3	15, 44, 45, 46, 47, 2, inhalable dust
	GB EH40	TWA	4 mg/m3	15, 44, 45, 46, 47, 2, (respirable dust)

15 For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust

2 Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used

44 The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m-3 8-hour TWA of inhalable dust or 4 mg.m-3 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit.

45 Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'.

46 Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/3.

47 Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with.

FR

Composants	Base	Valeur	Paramètres de contrôle	Note
Alumina Oxide	FR VLE	VME	10 mg/m3	normal,
Titanium Dioxide	FR VLE	VME	10 mg/m3	normal,

normal Valeurs limites indicatives

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FI

Aineosat	Peruste	Arvo	Valvontaa koskevat muutujat	Huomautus
Titanium Dioxide	FI OEL	HTP-arvot 8h	10 mg/m3	Pöly

ES

Componentes	Base	Valor	Parámetros de control	Nota
Alumina Oxide	ES VLA	VLA-ED	10 mg/m3	
Titanium Dioxide	ES VLA	VLA-ED	10 mg/m3	

EE

Komponendid, osad	Alused	Väärtus	Kontrolliparameetrid	Märkused
Alumina Oxide	EE OEL	Piirnorm	10 mg/m3	Kogu tolm
	EE OEL	Piirnorm	4 mg/m3	1, Peentolm
	EE OEL	Piirnorm	10 mg/m3	Kogu tolm
	EE OEL	Piirnorm	4 mg/m3	1, Peentolm
Titanium Dioxide	EE OEL	Piirnorm	5 mg/m3	

1 Peentolm koosneb alla 2,5-mikromeetrise läbimõõduga osakestest, mis võivad jõuda koos sissehingatava õhuga kopsu alveoolidesse

DK

Komponenter	Basis	Værdi	Kontrolparametre	Note
Alumina Oxide	DK OEL	GV	5 mg/m3	total
	DK OEL	GV	2 mg/m3	respirabel
Titanium Dioxide	DK OEL	GV	6 mg/m3	

DE

Inhaltsstoffe	Grundlage	Wert	Zu überwachende Parameter	Bemerkung
Alumina Oxide	DE TRGS 900	AGW	10 mg/m3	AGS, Einatembare Fraktion
	DE TRGS 900	AGW	3 mg/m3	AGS, Alveolengängige Fraktion
	DE TRGS 900	AGW	10 mg/m3	AGS, DFG, Einatembare Fraktion
	DE TRGS 900	AGW	1,25 mg/m3	AGS, DFG, Alveolengängige Fraktion
Titanium Dioxide	DE TRGS 900	AGW	10 mg/m3	AGS, Einatembare Fraktion
	DE TRGS 900	AGW	3 mg/m3	AGS, Alveolengängige Fraktion
	DE TRGS 900	AGW	10 mg/m3	AGS, DFG, Einatembare Fraktion
	DE TRGS 900	AGW	1,25 mg/m3	AGS, DFG, Alveolengängige Fraktion

AGS Ausschuss für Gefahrstoffe

DFG Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission)

CZ

Složky	Základ	Hodnota	Kontrolní parametry	Poznámka
Alumina Oxide	CZ OEL	PEL	0,1 mg/m3	Fr, vlákno, respirabilní frakce

Fr Fr = obsah fibrogenní složky v respirabilní frakci v procentech

CH

Inhaltsstoffe	Grundlage	Wert	Zu überwachende Parameter	Bemerkung
Alumina Oxide	CH SUVA	MAK-Wert	3 mg/m3	s. Anhang 1.8.2, NIOSH, alveolengängiger Staub
	CH SUVA	KZGW	24 mg/m3	s. Anhang 1.8.2, NIOSH, alveolengängiger Staub
	CH SUVA	MAK-Wert	3 mg/m3	s. Anhang 1.8.2, NIOSH, alveolengängiger Rauch
	CH SUVA	KZGW	24 mg/m3	s. Anhang 1.8.2, NIOSH, alveolengängiger Rauch
Titanium Dioxide	CH SUVA	MAK-Wert	3 mg/m3	s. Anhang 1.8.2, NIOSH, SSC, alveolengängiger Staub

NIOSH National Institute for Occupational Safety and Health

s. Anhang 1.8.2 Inerte Stäube, allgemeiner Staubgrenzwert; als inert werden solche Stäube bezeichnet, die nach heutigen Kenntnissen weder resorbiert werden, noch die Lunge zur vermehrten Bildung von Bindegewebe anregen (fibrogene Wirkung), und die keine spezifischen Krankheitserscheinungen hervorrufen. Da solche Stäube die Funktion der Atmungsorgane durch mechanische Reizung beeinträchtigen können, gilt hier ein MAK-Wert von 3 mg/m3 für alveolengängigen Staub, gemessen nach EN 481, sowie von 10 mg/m3 für einatembaren Staub.

SSc Eine Schädigung der Leibesfrucht braucht bei Einhaltung des MAK-Wertes nicht befürchtet zu werden.

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BG

Съставки	Основа	Стойност	Параметри на контрол	Бележка
Alumina Oxide	BG OEL	TWA	10 mg/m3	
	BG OEL	TWA	1,5 mg/m3	Респирабилна
	BG OEL	TWA	10 mg/m3	
	BG OEL	TWA	1,5 mg/m3	Респирабилна
Titanium Dioxide	BG OEL	TWA	10 mg/m3	Респирабилна
	BG OEL	TWA	10 mg/m3	дъл на праха, който може да се вдишва

BE

Bestanddelen	Basis	Waarde	Controleparameters	Opmerking
Alumina Oxide	BE OEL	TGG 8 hr	1 mg/m3	inadempbaar
	BE OEL	TGG 8 hr	1 mg/m3	inadempbaar
Titanium Dioxide	BE OEL	TGG 8 hr	10 mg/m3	

AT

Inhaltsstoffe	Grundlage	Wert	Zu überwachende Parameter	Bemerkung
Alumina Oxide	AT OEL	TMW	5 mg/m3	
	AT OEL	KZW	10 mg/m3	
	AT OEL	TMW	5 mg/m3	Rauch, alveolengängiger Anteil
	AT OEL	TMW	5 mg/m3	alveolengängiger Anteil
	AT OEL	TMW	10 mg/m3	einatembare Fraktion
	AT OEL	KZW	10 mg/m3	Rauch, alveolengängiger Anteil
	AT OEL	KZW	10 mg/m3	alveolengängiger Anteil
	AT OEL	KZW	20 mg/m3	einatembare Fraktion
Titanium Dioxide	AT OEL	TMW	5 mg/m3	Alveolengängige Staubfraktion
	AT OEL	KZW	10 mg/m3	Alveolengängige Staubfraktion

Engineering measures

Adequate ventilation to control airborne concentrations below the exposure guidelines/limits. Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

Personal protective equipment

- Respiratory protection : Wear a supplied-air NIOSH approved respirator unless ventilation or other engineering controls are adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure. Wear a NIOSH approved respirator that provides protection when working with this material if exposure to harmful levels of airborne material may occur, such as: Air-Purifying Respirator for Organic Vapors. Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection.
- Hand protection : The suitability for a specific workplace should be discussed with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

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- 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 : Choose body protection according to the amount and concentration of the dangerous substance at the work place. Wear as appropriate:. Personal protection through wearing a tightly closed chemical protection suit and a self-contained breathing apparatus. Remove and wash contaminated clothing before re-use. Footwear protecting against chemicals. Skin should be washed after contact.
- Hygiene measures : When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

SECTION 9: Physical and chemical properties**Information on basic physical and chemical properties****Appearance**

- Form : viscous
Physical state : Liquid
Color : White
Odor : Mild

Safety data

- Flash point : > 93 °C (> 200 °F)
Method: ASTM D 93
- Lower explosion limit : No data available
- Upper explosion limit : No data available
- Molecular weight : Not applicable
- pH : Not applicable
- Melting point/range : No data available
- Pour point : No data available
- Vapor pressure : < 2,00 MMHG
at 20 °C (68 °F)
- Density : 1,477 g/cm3
- Water solubility : Negligible

SECTION 10: Stability and reactivity

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Chemical stability : This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Possibility of hazardous reactions

Conditions to avoid : No data available.

Other data : No decomposition if stored and applied as directed.

SECTION 11: Toxicological information**ForSField™ G-75R epoxy resin**

Skin irritation : Irritating to skin.

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Eye irritation : Irritating to eyes.

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Sensitization : Causes sensitization.

CMR effects

o-Cresol Glycidyl Ether : Mutagenicity: In vitro tests showed mutagenic effects

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Further information : No data available.

SECTION 12: Ecological information**Elimination information (persistence and degradability)**

Additional advice : Environmental fate information is derived from consideration of the properties of the ingredients.
Environmental fate and pathways

Biodegradability : This material is not expected to be readily biodegradable.

Ecotoxicology Assessment

Acute aquatic toxicity
Epoxy Phenol Novolac : Toxic to aquatic life.

o-Cresol Glycidyl Ether : Toxic to aquatic life.

Chronic aquatic toxicity
Epoxy Phenol Novolac : Toxic to aquatic life with long lasting effects.

Additional ecological
information : Toxic to aquatic life with long lasting effects.

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SECTION 13: Disposal considerations

The information in this SDS pertains only to the product as shipped.

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

Product : 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. Send to a licensed waste management company.

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

SECTION 14: Transport information

The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments in non-bulk packages (see regulatory definition).

Consult the appropriate domestic or international mode-specific and quantity-specific Dangerous Goods Regulations for additional shipping description requirements (e.g., technical name or names, etc.) Therefore, the information shown here, may not always agree with the bill of lading shipping description for the material. Flashpoints for the material may vary slightly between the SDS and the bill of lading.

US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (EPOXY PHENOL NOVOLAC), 9, III, (> 93 °C), MARINE POLLUTANT, (EPOXY PHENOL NOVOLAC)

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (EPOXY PHENOL NOVOLAC), 9, III

ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (EPOXY PHENOL NOVOLAC), 9, III, (E), ENVIRONMENTALLY HAZARDOUS, (EPOXY PHENOL NOVOLAC)

RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (EPOXY PHENOL NOVOLAC), 9, III, ENVIRONMENTALLY HAZARDOUS, (EPOXY PHENOL NOVOLAC)

ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE

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OF DANGEROUS GOODS BY INLAND WATERWAYS)

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (EPOXY PHENOL NOVOLAC), 9, III, ENVIRONMENTALLY HAZARDOUS, (EPOXY PHENOL NOVOLAC)

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

SECTION 15: Regulatory information**National legislation**

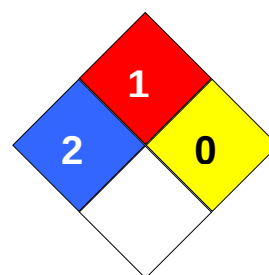
Major Accident Hazard Legislation : 96/82/EC Update: 2003
Directive 96/82/EC does not apply

Notification status

Europe REACH	:	Not in compliance with the inventory
United States of America TSCA	:	On TSCA Inventory
Canada DSL	:	This product contains one or several components that are not on the Canadian DSL nor NDSL.
Australia AICS	:	Not in compliance with the inventory
New Zealand NZIoC	:	Not in compliance with the inventory
Japan ENCS	:	Not in compliance with the inventory
Korea KECI	:	Not in compliance with the inventory
Philippines PICCS	:	Not in compliance with the inventory
China IECSC	:	Not in compliance with the inventory

SECTION 16: Other information

NFPA Classification : Health Hazard: 2
Fire Hazard: 1
Reactivity Hazard: 0

**Further information**

Significant changes since the last version are highlighted in the margin. This version replaces all previous versions.

The information in this SDS pertains only to the product as shipped.

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

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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.

Key or legend to abbreviations and acronyms used in the safety data sheet

ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%		

Full text of H-Statements referred to under sections 2 and 3.

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H341	Suspected of causing genetic defects.
H351	Suspected of causing cancer.
H411	Toxic to aquatic life with long lasting effects.