


ForSField™ TZ-904R epoxy resin

Version 1.5

Revision Date 2023-09-18

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

Product Name : ForSField™ TZ-904R epoxy resin
 Material : 1125875, 1103189, 1090258, 1090257, 1090256

Use : Resin

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

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: CHEMWATCH (+612 9186 1132) China: 0532 8388 9090
 Mexico CHEMTREC 01-800-681-9531 (24 hours)
 South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600
 Argentina: +(54)-1159839431
 EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)
 Austria: VIZ +43 1 406 43 43 (24 hours/day, 7 days/week)
 Belgium: 070 245 245 (24 hours/day, 7 days/week)
 Bulgaria: +359 2 9154 233
 Croatia: +3851 2348 342 (24 hours/day, 7 days/week)
 Cyprus: 1401
 Czech Republic: Toxicological Information Center +420 224 919 293, +420 224 915 402
 Denmark: Danish Poison Center (Giftlinjen): +45 8212 1212
 Estonia: BIG +32.14.584545 (phone) or +32.14583516 (telefax)
 Finland: 0800 147 111 09 471 977 (24 hours/day)
 France: ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week)
 Germany: BIG +32.14.584545 (phone) or +32.14583516 (telefax)
 Greece: (0030) 2107793777 (24 hours/day, 7 days/week)
 Hungary: +36-80-201-199 (24 hours/day, 7 days/week)
 Iceland: 543 2222 (24 hours/day, 7 days/week)
 Ireland: BIG +32.14.584545 (phone) or +32.14583516 (telefax)
 Italy: BIG +32.14.584545 (phone) or +32.14583516 (telefax)
 Latvia: State Fire and Rescue Service, phone number: 112; Toxicology and Sepsis Clinic
 Poisoning and Drug Information Center, Hipokrāta 2, Riga, Latvia, LV-1038, phone number +371
 67042473. (24 hours.)

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Liechtenstein: BIG +32.14.584545 (phone) or +32.14583516 (telefax)
 Lithuania: +370 (85) 2362052
 Luxembourg: (+352) 8002 5500 (24 hours/day, 7 days/week)
 Malta: +356 2395 2000
 The Netherlands: NVIC: +31 (0)88 755 8000
 Norway: 22 59 13 00 (24 hours/day, 7 days/week)
 Poland: BIG +32.14.584545 (phone) or +32.14583516 (telefax)
 Portugal: CIAV phone number: +351 800 250 250
 Romania: +40213183606
 Slovakia: +421 2 5477 4166
 Slovenia: Phone number: 112
 Spain: National Emergency Telephone Number of Spanish Poison Centre: +34 91 562 04 20 (24 hours/day, 7 days/week)
 Sweden: 112 – ask for Poisons Information

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**

This product has been classified in accordance with the hazard communication standard 29 CFR 1910.1200; the SDS and labels contain all the information as required by the standard.

Classification

: Skin irritation, Category 2
 Eye irritation, Category 2A
 Skin sensitization, Category 1
 Carcinogenicity, Category 2

Labeling

Symbol(s) : 

Signal Word : Warning

Hazard Statements : H315: Causes skin irritation.
 H317: May cause an allergic skin reaction.
 H319: Causes serious eye irritation.
 H351: Suspected of causing cancer.

Precautionary Statements : **Prevention:**
 P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
 P264 Wash skin thoroughly after handling.
 P272 Contaminated work clothing must not be allowed out of the workplace.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:
 P302 + P352 IF ON SKIN: Wash with plenty of soap and

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water.

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:

P405 Store locked up.

Disposal:

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

Carcinogenicity:**IARC**

Group 2B: Possibly carcinogenic to humans

Titanium Dioxide 13463-67-7

Carbon Black 1333-86-4

NTP

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

SECTION 3: Composition/information on ingredients

Synonyms : None Established

Molecular formula : Mixture

Component	CAS-No.	Weight %
Bisphenol A Type Resin	25068-38-6	40 - 50
Aluminum Oxide	1344-28-1	20 - 30
Epoxy Phenol Novolac	28064-14-4	13 - 17
Titanium Dioxide	13463-67-7	1 - 10
Resorcinol Monobenzoate	136-36-7	0 - 8
Siloxanes and Silicones, di-Me, reaction products with silica	67762-90-7	2 - 5
(C12-14) Alkylglycidyl Ether	68609-97-2	0.1 - 0.5
Carbon Black	1333-86-4	0.1 - 0.5
Bisphenol A Type Resin	25068-38-6	40 - 50
Aluminum Oxide	1344-28-1	20 - 30
Epoxy Phenol Novolac	28064-14-4	13 - 17
Siloxanes and Silicones, di-Me, reaction products with silica	67762-90-7	2 - 5
Resorcinol Monobenzoate	136-36-7	0 - 8
Titanium Dioxide	13463-67-7	4 - 7
Carbon Black	1333-86-4	0.1 - 0.5
(C12-14) Alkylglycidyl Ether	68609-97-2	0.1 - 0.5

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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 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

- Flash point : 265°C (509°F)
Method: closed cup
- Autoignition temperature : No data available
- 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.
- Hazardous decomposition products : No data available.

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.

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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.

WARNING! For industrial/commercial use only. Mixture, use and application of the ForSField™ TZ-904R epoxy resin with the ForSField™ TZ-904H hardener must be performed by trained personnel only. Equipment used must include an appropriate plural component sprayer. Employ appropriate ventilation, and do not mix the epoxy resin with the hardener in a confined space. Avoid breathing fumes. Do not dispose of the mixed epoxy until the reaction is completed and the mixed epoxy has cooled.

HEAT WARNING! Curing epoxy generates significant heat. Never hand mix the ForSField™ TZ-904R epoxy resin with the ForSField™ TZ-904H hardener. Doing so will generate significant heat and the combined materials may reach temperatures which can cause severe burns to skin, melt plastic and foam, and ignite combustible materials (potentially as much as 300°F or higher). Do not mix the epoxy resin with the hardener in containers made of materials such as plastic, foam or glass. If a container of mixed epoxy resin and hardener starts to exotherm (heat up) take precautions to move the container to a safe location.

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.

Use : Resin

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

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US

Components	Basis	Value	Control parameters	Note
Aluminum Oxide	OSHA Z-1	TWA	15 mg/m3	total dust
	OSHA Z-1	TWA	5 mg/m3	respirable fraction
	OSHA Z-1-A	TWA	10 mg/m3	Total dust
	OSHA Z-1-A	TWA	5 mg/m3	respirable dust fraction
Titanium Dioxide	ACGIH	TWA	1 mg/m3	A4, Respirable particulate matter
	OSHA Z-1	TWA	15 mg/m3	total dust
	OSHA Z-1-A	TWA	10 mg/m3	Total dust
Carbon Black	ACGIH	TWA	10 mg/m3	A4,
	OSHA Z-1	TWA	3.5 mg/m3	
	OSHA Z-1-A	TWA	3.5 mg/m3	
	ACGIH	TWA	3 mg/m3	A3, Inhalable particulate matter

A3 Confirmed animal carcinogen with unknown relevance to humans

A4 Not classifiable as a human carcinogen

Immediately Dangerous to Life or Health Concentrations (IDLH)

Substance name	CAS-No.	Control parameters	Update
Titanium Dioxide	13463-67-7	Immediately Dangerous to Life or Health Concentration Value 5000 mg/m ³	2017-09-01
Carbon Black	1333-86-4	Immediately Dangerous to Life or Health Concentration Value 1750 mg/m ³	1995-03-01

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 : If ventilation or other engineering controls are not adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure, a supplied-air NIOSH approved respirator may be appropriate. If exposure to harmful levels of airborne material may occur, a NIOSH approved respirator that provides protection may be appropriate, such as:. A positive pressure, air-supplying respirator may be appropriate if there is potential for uncontrolled release, aerosolization, 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. Tightly fitting safety goggles.
- Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the

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specific work-place. Wear as appropriate. Remove and wash contaminated clothing before re-use. Skin should be washed after contact. Footwear protecting against chemicals.

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**

Physical state : liquid
 Color : Various
 Odor : Mild

Safety data

Flash point : 265°C (509°F)
 Method: closed cup

Lower explosion limit : No data available

Upper explosion limit : No data available

Oxidizing properties : no

Autoignition temperature : No data available

Molecular formula : Mixture

Molecular weight : Not applicable

pH : Not applicable

Pour point : No data available

Boiling point/boiling range : No data available

Vapor pressure : No data available

Relative density : No data available

Density : 1.3 G/ML

Water solubility : negligible

Partition coefficient: n-octanol/water : No data available

Viscosity, kinematic : No data available

Relative vapor density : No data available

Evaporation rate : No data available

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SECTION 10: Stability and reactivity

- Reactivity** : Stable under recommended storage conditions.
- Chemical stability** : This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
- Possibility of hazardous reactions**
- Hazardous reactions** : Hazardous reactions: Hazardous polymerization does not occur.
- Conditions to avoid** : No data available.
- Materials to avoid** : May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
- Hazardous decomposition products** : No data available
- Other data** : No decomposition if stored and applied as directed.

SECTION 11: Toxicological information**ForSField™ TZ-904R epoxy resin**

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

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Acute inhalation toxicity : No data available

Acute dermal toxicity

Aluminum Oxide : LD50: > 2,000 mg/kg
Species: Rabbit
Information given is based on data obtained from similar substances.

LD50: > 2,000 mg/kg
Species: Rabbit
Information given is based on data obtained from similar substances.

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Skin irritation : Skin irritation

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Eye irritation : Eye irritation

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ForSField™ TZ-904R epoxy resin**Sensitization** : Causes sensitization.**Genotoxicity in vitro**

Aluminum Oxide : Test Type: Ames test
 Metabolic activation: with and without metabolic activation
 Result: negative

ForSField™ TZ-904R epoxy resin**Aspiration toxicity** : No aspiration toxicity classification.**CMR effects**

Carbon Black : Carcinogenicity: Limited evidence of carcinogenicity in animal studies
 Carcinogenicity: Limited evidence of carcinogenicity in animal studies

ForSField™ TZ-904R epoxy resin**Further information** : No data available.**SECTION 12: Ecological information****Toxicity to fish**

Bisphenol A Type Resin : LC50: 1.2 mg/l
 Exposure time: 96 h
 Species: Oncorhynchus mykiss (rainbow trout)
 semi-static test Method: OECD Test Guideline 203

Aluminum Oxide NOEC: > 100 mg/l
 Exposure time: 96 h
 Species: Salmo salar (Atlantic salmon)
 Method: OECD Test Guideline 203

Resorcinol Monobenzoate LC50: 13.85 mg/l
 Exposure time: 96 h
 Species: Fish
 Method: Value calculated using ECOSAR.

(C12-14) Alkylglycidyl Ether LC50: > 1,800 mg/l
 Exposure time: 96 h
 Species: Lepomis macrochirus (Bluegill sunfish)
 static test

Bisphenol A Type Resin LC50: 1.2 mg/l
 Exposure time: 96 h
 Species: Oncorhynchus mykiss (rainbow trout)
 semi-static test Method: OECD Test Guideline 203

Aluminum Oxide NOEC: > 100 mg/l
 Exposure time: 96 h
 Species: Salmo salar (Atlantic salmon)
 Method: OECD Test Guideline 203

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Resorcinol Monobenzoate LC50: 13.85 mg/l
 Exposure time: 96 h
 Species: Fish
 Method: Value calculated using ECOSAR.

(C12-14) Alkylglycidyl Ether LC50: > 1,800 mg/l
 Exposure time: 96 h
 Species: Lepomis macrochirus (Bluegill sunfish)
 static test

Toxicity to daphnia and other aquatic invertebrates

Bisphenol A Type Resin : LC50: 2.7 mg/l
 Exposure time: 48 h
 Species: Daphnia magna (Water flea)
 static test Method: EPA-660/3-75-009

Aluminum Oxide EC50: > 100 mg/l
 Exposure time: 48 h
 Species: Daphnia magna (Water flea)
 Method: OECD Test Guideline 202

Resorcinol Monobenzoate EC50: 5.32 mg/l
 Exposure time: 48 h
 Species: Daphnia
 Method: Value calculated using ECOSAR.

Bisphenol A Type Resin LC50: 2.7 mg/l
 Exposure time: 48 h
 Species: Daphnia magna (Water flea)
 static test Method: EPA-660/3-75-009

Aluminum Oxide EC50: > 100 mg/l
 Exposure time: 48 h
 Species: Daphnia magna (Water flea)
 Method: OECD Test Guideline 202

Resorcinol Monobenzoate EC50: 5.32 mg/l
 Exposure time: 48 h
 Species: Daphnia
 Method: Value calculated using ECOSAR.

Toxicity to algae

Bisphenol A Type Resin : ErC50: > 11 mg/l
 Exposure time: 72 h
 Species: Scenedesmus capricornutum (fresh water algae)
 static test
 EbC50: 9.4 mg/l
 Exposure time: 72 h
 Species: Scenedesmus capricornutum (fresh water algae)
 static test

Aluminum Oxide NOEC: > 100 mg/l
 Exposure time: 72 h
 Species: Selenastrum capricornutum (algae)
 Method: OECD Test Guideline 201

Resorcinol Monobenzoate 23.35 mg/l
 Exposure time: 96 h

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	Species: <i>Pseudokirchneriella subcapitata</i> (green algae) Method: Value calculated using ECOSAR.
Bisphenol A Type Resin	ErC50: > 11 mg/l Exposure time: 72 h Species: <i>Scenedesmus capricornutum</i> (fresh water algae) static test EbC50: 9.4 mg/l Exposure time: 72 h Species: <i>Scenedesmus capricornutum</i> (fresh water algae) static test
Aluminum Oxide	NOEC: > 100 mg/l Exposure time: 72 h Species: <i>Selenastrum capricornutum</i> (algae) Method: OECD Test Guideline 201
Resorcinol Monobenzoate	23.35 mg/l Exposure time: 96 h Species: <i>Pseudokirchneriella subcapitata</i> (green algae) Method: Value calculated using ECOSAR.

Toxicity to bacteria

Bisphenol A Type Resin	: > 100 mg/l Exposure time: 3 h Species: Natural microorganism Growth inhibition
	> 100 mg/l Exposure time: 3 h Species: Natural microorganism Growth inhibition

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

Bisphenol A Type Resin	: NOEC: 0.3 mg/l Exposure time: 21 d Species: <i>Daphnia magna</i> (Water flea) semi-static test Method: OECD Test Guideline 211
	: NOEC: 0.3 mg/l Exposure time: 21 d Species: <i>Daphnia magna</i> (Water flea) semi-static test Method: OECD Test Guideline 211

Biodegradability : Taking into consideration the properties of several ingredients, the product is estimated not to be readily biodegradable according to OECD classification.

Elimination information (persistence and degradability)

Bioaccumulation

Aluminum Oxide : This material is not expected to bioaccumulate.

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: This material is not expected to bioaccumulate.

Mobility

Aluminum Oxide : No data available

: No data available

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

Ecotoxicology Assessment**Short-term (acute) aquatic hazard**

Bisphenol A Type Resin : Toxic to aquatic life.

Aluminum Oxide : This material is not expected to be harmful to aquatic organisms.

Epoxy Phenol Novolac : Toxic to aquatic life.

Resorcinol Monobenzoate : Toxic to aquatic life.

Bisphenol A Type Resin : Toxic to aquatic life.

Aluminum Oxide : This material is not expected to be harmful to aquatic organisms.

Epoxy Phenol Novolac : Toxic to aquatic life.

Resorcinol Monobenzoate : Toxic to aquatic life.

Long-term (chronic) aquatic hazard

Bisphenol A Type Resin : Toxic to aquatic life with long lasting effects.

Aluminum Oxide : This material is not expected to be harmful to aquatic organisms.

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

Bisphenol A Type Resin : Toxic to aquatic life with long lasting effects.

Aluminum Oxide : This material is not expected to be harmful to aquatic organisms.

Epoxy Phenol Novolac : 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.

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- 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., (BISPHENOL A TYPE RESIN, EPOXY PHENOL NOVOLAC), 9, III, (265 °C c.c.), MARINE POLLUTANT, (BISPHENOL A TYPE RESIN, EPOXY PHENOL NOVOLAC)

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

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

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

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (BISPHENOL A TYPE RESIN, EPOXY PHENOL NOVOLAC), 9, III, (-)

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

90, UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (BISPHENOL A TYPE RESIN, EPOXY PHENOL NOVOLAC), 9, III

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

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

Maritime transport in bulk according to IMO instruments

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SECTION 15: Regulatory information**National legislation**

SARA 311/312 Hazards : Respiratory or skin sensitization
Carcinogenicity
Skin corrosion or irritation
Serious eye damage or eye irritation

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

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

SARA 302 Threshold Planning Quantity : This material does not contain any components with a section 302 EHS TPQ.

SARA 304 Reportable Quantity : This material does not contain any components with a section 304 EHS RQ.

SARA 313 Components : The following components are subject to reporting levels established by SARA Title III, Section 313:

: Aluminum Oxide - 1344-28-1

Clean Air Act

Ozone-Depletion Potential : 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).

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 SOCM Intermediate or Final VOC's (40 CFR 60.489).

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US State Regulations

Pennsylvania Right To Know

: Bisphenol A Type Resin - 25068-38-6
 Aluminum Oxide - 1344-28-1
 Epoxy Phenol Novolac - 28064-14-4
 Resorcinol Monobenzoate - 136-36-7
 Dioxotitanium -

California Prop. 65
Components

: WARNING! This product contains a chemical known in the
 State of California to cause cancer.
 Titanium Dioxide 13463-67-7
 Carbon Black 1333-86-4

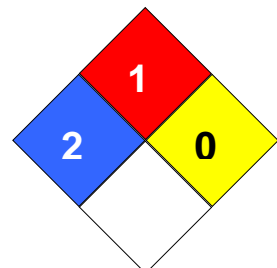
Notification status

Europe REACH : Not in compliance with the inventory
 Switzerland CH INV : Not in compliance with the inventory
 United States of America (USA) : On or in compliance with the active portion of the
 TSCA TSCA inventory
 Canada DSL : All components of this product are on the Canadian
 DSL
 Australia AIIC : On the inventory, or in compliance with the inventory
 New Zealand NZIoC : Not in compliance with the inventory
 Japan ENCS : Not in compliance with the inventory
 Korea KECI : A substance(s) in this product was not registered,
 notified to be registered, or exempted from registration
 by CPChem according to K-REACH regulations.
 Importation or manufacture of this product is still
 permitted provided the Korean Importer of Record has
 themselves notified the substance or the exported
 amount does not exceed the minimum threshold
 quantity of the non-registered substance(s).

Philippines PICCS : Not in compliance with the inventory
 Taiwan TCSI : On the inventory, or in compliance with the inventory
 China IECSC : On the inventory, or in compliance with the inventory

SECTION 16: Other information**NFPA Classification**

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



ForSField™ TZ-904R epoxy resin

Version 1.5

Revision Date 2023-09-18

Further information

Legacy SDS Number : CPC00386

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%
AIIC	Australian Inventory of Industrial Chemicals	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%	ATE	Acute toxicity estimate