



Safety Data Sheet

RX 1148 FR Syntactic Part A

Section 1. Identification

Product Identifier RX 1148 FR Syntactic Part A
Synonyms N/A
Manufacturer Stock Numbers N/A

Recommended use Resin
Uses advised against N/A

Manufacturer Contact

Address Resin Formulators
18027 Bishop Avenue
Carson, CA, 90746
USA

Phone
(310) 204-6159

Emergency Phone
(800) 424-9300
CHEMTREC

Fax
(310) 202-7247

Email
sales@evroberts.com

Website
<http://www.evroberts.com>

Section 2. Hazards Identification

Classification CARCINOGENICITY - Category 2
EYE DAMAGE/IRRITATION - Category 2A
HAZARDOUS TO THE AQUATIC ENVIRONMENT - LONG-TERM HAZARD -
Category 2
SENSITIZATION - SKIN - Category 1
SKIN CORROSION/IRRITATION - Category 2

Signal Word Warning

Pictogram



Hazard Statements

Causes serious eye irritation
May cause an allergic skin reaction
Moderately irritating to skin
Suspected of causing cancer (state route of exposure if no other routes of exposure cause the hazard)
Toxic to aquatic life with long lasting effects

Precautionary Statements

Response

Collect spillage
If exposed or concerned: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If on skin: Wash with plenty of water/ ...
If skin irritation or rash occurs: Get medical advice/attention.
Specific treatment (see ... on this label)
Wash contaminated clothing before reuse.

Prevention

Avoid breathing dust/fume/gas/mist/ vapors/spray.
Avoid release to the environment
Contaminated work clothing must not be allowed out of the workplace.
Do not handle until all safety precautions have been read and understood.
Obtain special instructions before use.
Wash ...thoroughly after handling.
Wear eye protection/face protection.
Wear protective gloves.
Wear protective gloves/protective clothing/eye protection/face protection.

Storage

Store locked up.

Disposal

Dispose of contents/container to ...

Ingredients of unknown toxicity 0%

Hazards not Otherwise Classified

No Data Available

Section 3. Ingredients

CAS	Ingredient Name	Weight %
17557-23-2	Oxirane, 2,2'-[(2,2-dimethyl-1,3-propanediyl)bis(oxymethylene)]bis-	5% - 10%
25068-38-6	Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane	30% - 50%
21645-51-2	Aluminum hydroxide (Al(OH)3)	20% - 30%
13463-67-7	Titanium oxide (TiO2)	2% - 2%

Occupational exposure limits, if available, are listed in Section 8.

This Product contains one or more ingredients where the specific chemical identity and exact percentage of composition has been withheld as a trade secret

Section 4. First-Aid Measures

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Ingestion: Ingestion is not likely. See supplemental page for emergency procedures.

Inhalation: Remove to fresh air. If symptoms persist, obtain medical attention.

Skin Contact: Soak in warm water. See supplemental page for emergency procedures.

Eye Contact: Flush with water. See supplemental page for emergency procedures.

Section 5. Fire Fighting Measures

Suitable Extinguishing
Media

Extinguishing media

Suitable extinguishing agents:

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards arising from the substance or mixture:

No further relevant information available.

Advice for firefighters

Protective equipment: No special measures required.

Unsuitable Extinguishing
Media

N/A

Section 6. Accidental Release Measures

Accidental Release

Personal precautions, protective equipment and emergency procedures Not required.

Environmental precautions: No special measures required.

Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Reference to other sections See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information

Section 7. Handling and Storage

Handling

Handling: For the Part A plus Part B adhesive mixture, follow curing schedule as recommended in product literature. Empty containers retain product residue, so obey hazard warnings and handle empty containers as if they

were full. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. For industrial use only.

Storage: For safe storage, store at or below 25 °C (77°F) Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials. Keep away from heat, spark and flame.

Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits	Ingredient Name	ACGIH TLV	OSHA PEL	STEL
	Oxirane, 2,2'-[(2,2-dimethyl-1,3-propanediyl)bis(oxyethylene)]bis-	N/A	none	N/A
	Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane	N/A	none	N/A
	Aluminum hydroxide (Al(OH) ₃)	N/A	N/A	N/A
	Titanium oxide (TiO ₂)	N/A	N/A	N/A
	Glass, oxide, chemicals	N/A	N/A	N/A

Personal Protective Equipment

Goggles, Gloves

Personal Protection

Engineering controls: Ventilation should effectively remove and prevent buildup of any dust generated from the handling of this product.

Respiratory protection: When dusts or thermal processing fumes are generated and ventilation is not sufficient to effectively remove them, appropriate NIOSH/MSHA approved respiratory protection must be provided.

Eye/face protection: Safety goggles or safety glasses with side shields.

Skin protection: Wear impervious gloves for prolonged contact. Use of impervious apron and boots are recommended.

Section 9. Physical and Chemical Properties

Physical State	Fluid
Color	According to product specifications
Odor	Characterstic
Odor Threshold	N/A
Solubility	N/A
Partition coefficient Water/n-octanol	N/A
VOC%	N/A
Viscosity	N/A
Specific Gravity	1
Density lbs/Gal	N/A
Pounds per Cubic Foot	N/A
Flash Point	N/A
FP Method	N/A

pH	N/A
Melting Point	N/A
Boiling Point	N/A
Boiling Range	N/A
LEL	N/A
UEL	N/A
Evaporation Rate	N/A
Flammability	N/A
Decomposition Temperature	N/A
Auto-ignition Temperature	N/A
Vapor Pressure	N/A
Vapor Density	N/A

Section 10. Stability and Reactivity

Reactivity Not Known

Section 11. Toxicological Information

Carcinogen Status

Epoxy resin:
NTP Carcinogen = NO
IARC Carcinogen = NO
OSHA Carcinogen = NO

Epoxy resin:
NTP Carcinogen = NO
IARC Carcinogen = NO
OSHA Carcinogen = NO

Modified Epoxy resin:
NTP Carcinogen = NO
IARC Carcinogen = NO
OSHA Carcinogen = NO

Modified Epoxy resin:
NTP Carcinogen = NO
IARC Carcinogen = NO
OSHA Carcinogen = NO

Glass, oxide, chemicals:
NTP Carcinogen = NO
IARC Carcinogen = NO
OSHA Carcinogen = NO

Treated fumed silica:
NTP Carcinogen = NO
IARC Carcinogen = NO
OSHA Carcinogen = NO

Titanium dioxide:
NTP Carcinogen = NO
IARC Carcinogen = Group 2B
OSHA Carcinogen = NO

Section 12. Ecological Information

No ecological testing has been conducted on this product.

Section 13. Disposal

WASTE DISPOSAL
METHOD:

Dispose of in accord with local, state and federal regulations

Section 14. Transport Information

UN Number N/A

UN Proper Shipping Name N/A

DOT Classification N/A

Packing Group N/A

Transport Information IATA:

Hazard Label: 9, EHSM

Class: 9

Number: UN3082

Packing Group: III Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS
SUBSTANCE, LIQUID, N.O.S. (contains LIQUID EPOXY RESIN)

Section 15. Regulatory Information

TSCA Status

On TSCA Inventory

Regulatory

TSCA (Toxic Substances Control Act):

21645-51-2 aluminium hydroxide

25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin
(number average molecular weight 700)

65997-17-3 Fibrous Glass

17557-23-2 1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane

13463-67-7 titanium dioxide

Section 16. Other Information

Revision Date

1/16/2018

Disclaimer

The information contained herein is believed to be accurate. It is provided independently of any sale of the product for purpose of hazard communication as part of E.V. Roberts' product safety program. It is not intended to constitute performance information concerning the product. No warranty, expressed or implied, or merchantability or fitness for a particular purpose is made with respect to the product or the information contained herein.

HMIS Rating (Not
Regulated)

To determine applicability or effects of any law or regulation with respect to the product, user should consult his legal advisor or the appropriate government agency. E.V. Roberts does not undertake to furnish advice on such matters.

The HMIS Rating for this product is:
Health: 3 Flammability: 2 Reactivity: 0

For Information Purposes Only - No Longer Regulated



Safety Data Sheet

RX 1148 FR Syntactic Part B

Section 1. Identification

Product Identifier	RX 1148 FR Syntactic Part B		
Synonyms	N/A		
Manufacturer Stock Numbers	N/A		
Recommended use	Hardner		
Uses advised against	N/A		
Manufacturer Contact			
Address	Resin Formulators 18027 Bishop Avenue Carson, CA, 90746 USA		
	Phone	Emergency Phone	Fax
	(310) 204-6159	(800) 424-9300 CHEMTREC	(310) 202-7247
	Email	Website	
	sales@evroberts.com	http://www.evroberts.com	

Section 2. Hazards Identification

Classification	ACUTE TOXICITY - INHALATION - Category 4 CARCINOGENICITY - Category 2 GERM CELL MUTAGENICITY - Category 2 SKIN CORROSION/IRRITATION - Category 1A SPECIFIC TARGET ORGAN TOXICITY (Repeated Exposure) - Category 2
Signal Word	Danger

Pictogram



Hazard Statements

Causes severe skin burns and eye damage
Harmful if inhaled
Harmful in contact with skin
May cause damage to organs (state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if no other routes of exposure cause the hazard)
Suspected of causing cancer (state route of exposure if no other routes of exposure cause the hazard)
Suspected of causing genetic defects (state route of exposure if no other routes of exposure cause the hazard)

Precautionary Statements

Response

Call a poison center/doctor/ ... /if you feel unwell.
Get medical advice/attention if you feel unwell.
If exposed or concerned: Get medical advice/attention.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
If swallowed: Rinse mouth. Do NOT induce vomiting.
Immediately call a poison center/doctor/ ...
Specific treatment (see ... on this label)
Wash contaminated clothing before reuse.

Prevention

Avoid breathing dust/fume/gas/mist/ vapors/spray.
Do not breathe dust/fume/gas/mist/ vapors/spray.
Do not handle until all safety precautions have been read and understood.
Obtain special instructions before use.
Use only outdoors or in a well-ventilated area.
Wash ...thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.

Storage

Store locked up.

Disposal

Dispose of contents/container to ...

Ingredients of unknown toxicity 0%

Hazards not Otherwise Classified

No Data Available

Section 3. Ingredients

CAS	Ingredient Name	Weight %
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65997-17-3	Glass, oxide, chemicals	5% - 10%
Modified Amine	Modified Amine (Proprietary)	30% - 40%
108-95-2	Phenol	12% - Max
1477-55-0	1,3-Benzenedimethanamine	10% - Max
Polyphosphate	Polyphosphate (Proprietary)	10% - Max
21645-51-2	Aluminum hydroxide (Al(OH) ₃)	10% - 20%
112945-52-5	Silica Fumes	1% - 5%

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-Aid Measures

First Aid Measures

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. If symptoms develop and persist, get medical attention.

Skin contact: Remove contaminated clothing and footwear. Wash with soap and water. If a person feels unwell or symptoms of skin irritation appear, consult a physician.

Eye contact: In case of contact with the eyes, rinse immediately with plenty of water for 15 minutes, and seek immediate medical attention.

Ingestion: DO NOT induce vomiting unless directed to do so by medical personnel. If symptoms develop and persist, get medical attention.

Symptoms: See Section 11.

Section 5. Fire Fighting Measures

Suitable Extinguishing Media

Extinguishing media: Water spray (fog), foam, dry chemical or carbon dioxide.

Special firefighting procedures: Wear full protective clothing. Wear self-contained breathing apparatus.

Unusual fire or explosion hazards: May liberate large quantities of dense, foul-smelling smoke which may contain unidentified toxic gasses.

Hazardous combustion products: Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Oxides of nitroge

Unsuitable Extinguishing Media

N/A

Section 6. Accidental Release Measures

Accidental Release

Personal precautions, protective equipment and emergency procedures Not required.

Environmental precautions: No special measures required.

Methods and material for containment and cleaning up: Absorb with liquid-

binding material (sand, diatomite, acid binders, universal binders, sawdust).
 Reference to other sections See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information

Section 7. Handling and Storage

Handling

Handling: For the Part A plus Part B adhesive mixture, follow curing schedule as recommended in product literature. Empty containers retain product residue, so obey hazard warnings and handle empty containers as if they were full. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. For industrial use only.

Storage: For safe storage, store at or below 25 °C (77°F) Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials. Keep away from heat, spark and flame.

Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits

Ingredient Name	ACGIH TLV	OSHA PEL	STEL
Glass, oxide, chemicals	N/A	N/A	N/A
Modified Amine (Proprietary)	N/A	N/A	N/A
Phenol	N/A	N/A	N/A
1,3-Benzenedimethanamine	N/A	N/A	N/A
Polyphosphate (Proprietary)	N/A	N/A	N/A
Aluminum hydroxide (Al(OH) ₃)	N/A	N/A	N/A
Silica Fumes	N/A	N/A	N/A

Personal Protective Equipment

N/A

Personal Protection

Engineering controls: Ventilation should effectively remove and prevent buildup of any dust generated from the handling of this product.

Respiratory protection: When dusts or thermal processing fumes are generated and ventilation is not sufficient to effectively remove them, appropriate NIOSH/MSHA approved respiratory protection must be provided.

Eye/face protection: Safety goggles or safety glasses with side shields.

Skin protection: Wear impervious gloves for prolonged contact. Use of impervious apron and boots are recommended.

Section 9. Physical and Chemical Properties

Physical State	Solid
Color	According to product specification
Odor	Characteristic

Odor Threshold	N/A
Solubility	N/A
Partition coefficient Water/n-octanol	N/A
VOC%	N/A
Viscosity	N/A
Specific Gravity	N/A
Density lbs/Gal	N/A
Pounds per Cubic Foot	N/A
Flash Point	82
FP Method	N/A
pH	N/A
Melting Point	N/A
Boiling Point	N/A
Boiling Range	N/A
LEL	1.3
UEL	9.5
Evaporation Rate	N/A
Flammability	N/A
Decomposition Temperature	N/A
Auto-ignition Temperature	N/A
Vapor Pressure	.3
Vapor Density	N/A

Section 10. Stability and Reactivity

Stability

Stability: Stable at normal conditions.

Hazardous reactions: May occur.

Hazardous decomposition products:

Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Oxides of nitrogen.

Incompatible materials: Keep away from strong oxidizing agents, strong Lewis or mineral acids.

Reactivity: Not available.

Conditions to avoid: Avoid mixing resin (Part A) and curing agent (Part B) unless you plan to use immediately. Do not heat mixed adhesive unless you plan to use immediately. Failure to observe these precautions may result in excessive heat build-up causing an exotherm.

Section 11. Toxicological Information

Toxicology Information

Phenol (108-95-2):
NTP Carcinogen = NO; IARC Carcinogen = NO

OSHA Carcinogen = NO

m-phenylenebis(methylamine (1477-55-0):
NTP Carcinogen = NO; IARC Carcinogen = NO
OSHA Carcinogen = NO

Primary irritant effect: · on the skin: Strong caustic effect on skin and mucous membranes. · on the eye: Strong caustic effect. · Sensitization: No sensitizing effects known. · Additional toxicological information: The product shows the following dangers according to internally approved calculation methods for preparations: Harmful Corrosive Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

Section 12. Ecological Information

Ecological Information

Toxicity

Aquatic toxicity: No further relevant information available. ·

Persistence and degradability No further relevant information available.

Behavior in environmental systems:

Bioaccumulative potential No further relevant information available.

Mobility in soil No further relevant information available.

Additional ecological information:

General notes: Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Danger to drinking water if even small quantities leak into the ground.

Section 13. Disposal

WASTE DISPOSAL METHOD:

Dispose of in accord with local, state and federal regulations

Section 14. Transport Information

UN Number 2923

UN Proper Shipping Name UN2923, Corrosive solids, toxic, n.o.s. (mphenylenebis(methylamine), Phenol), 8 (6.1), III

DOT Classification 8

Packing Group III

ADR/IMDG/IATA

UN proper shipping name:

DOT Corrosive solids, toxic, n.o.s. (m-phenylenebis(methylamine), Phenol)

ADR 2923 Corrosive solids, toxic, n.o.s. (m-phenylenebis(methylamine), Phenol)

IMDG, IATA CORROSIVE SOLID, TOXIC, N.O.S. (mphenylenebis(methylamine), PHENOL)

Section 15. Regulatory Information

Regulatory Information

Section 355 (extremely hazardous substances):
108-95-2 phenol ·

Section 313 (Specific toxic chemical listings):
108-95-2 phenol

TSCA (Toxic Substances Control Act):
21645-51-2 aluminium hydroxide
108-95-2 phenol
1477-55-0 m-phenylenebis(methylamine)
65997-17-3 Fibrous Glass

Prop 65:
None

Carcinogenic categories

EPA (Environmental Protection Agency)
108-95-2 phenol I
TLV (Threshold Limit Value established by ACGIH)
108-95-2 phenol A4 ·
NIOSH-Ca (National Institute for Occupational Safety and Health)
None of the ingredients is listed.
OSHA-Ca (Occupational Safety & Health Administration)
None of the ingredients is listed.

Section 16. Other Information

Revision Date

1/16/2018

HMIS Rating (Not Regulated)

The HMIS Rating for this product is:
Health: 4 Flammability: 2 Reactivity: 0

For Information Purposes Only - No Longer Regulated

Disclaimer

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To determine applicability or effects of any law or regulation with respect to the product, user should consult his legal advisor or the appropriate government agency. E.V. Roberts does not undertake to furnish advice on such matters.