



V2 200 Component A Safety Data Sheet

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name: V2 200 Component A
Other names: V2 200 Component A
Synonyms: Epoxy resin, saturating resin
Recommended use: For use as a saturating resin, tack coat or a seal coat with the Structurewrap product line.
Restrictions of Use: None
Manufacturer's Name: V2 Composites, Inc.
Address: 770 Lee Road 191 Auburn, Alabama 36830
Telephone: 334-502-3000
Emergency phone number: CHEMTREC (800) 424-9300
Facsimile: 334-502-3088
Website: www.v2composites.com

SECTION 2 - HAZARDS IDENTIFICATION

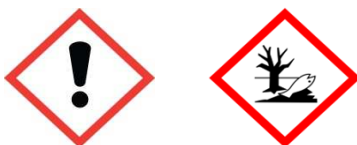
Classification of the substance or mixture:

Acute Tox. 4; H302
 Skin Irrit. 2; H315
 Eye Irrit. 2; H319
 Skin Sens. 1; H317
 Aquatic Chronic 2; H411

Harmful if swallowed
 Causes skin irritation
 Causes serious eye irritation
 May cause an allergic skin reaction
 Toxic to aquatic life with long lasting effects

GHS label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.



Warning

H302 Harmful if swallowed
 H315 Causes skin irritation
 H317 May cause an allergic skin reaction
 H319 Causes serious eye irritation
 H411 Toxic to aquatic life with long lasting effects

Prevention:

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
 P264 Wash thoroughly after handling.
 P270 Do not eat, drink, or smoke when using this product.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/eye protection/face protection.

Response:

P301+312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
 P302+352 IF ON SKIN: Wash with plenty of soap and water.
 P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do-continue rinsing.
 P313 Get medical advice/attention.
 P321 Specific treatment(see information on this label).
 P330 Rinse mouth.
 P333+313 If skin irritation or a rash occurs: Get medical advice/attention.
 P337+313 If eye irritation persists: Get medical advice/attention.
 P362 Take off contaminated clothing.
 P363 Wash contaminated clothing before reuse.
 P391 Collect spillage.

Storage:

No GHS storage statements.

Disposal:

P501 Dispose of contents/container in accordance with local/national regulations.



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SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substance regulations.

Ingredients/Chemical Designations	Weight %	GHS Classification	Notes
Bisphenol F epoxy resin CAS Number: 0028064-14-4	75-100%	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Chronic 2; H411	[1]
Oxirane, 2,2'-[1,4-butanediylbis(oxyethylene)]bis- CAS Number: 0002425-79-8	10-25%	Acute Tox. 4; H332 Acute Tox. 4; H312 Eye Irrit. 2; H319 Skin Irrit. 2; H315 Skin Sens. 1; H317	[1]

In accordance with paragraph (i) of 1910.1200, the specific chemical identity and/or exact percentage(concentration) of composition has been withheld as a trade secret.

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

*The full texts of the phrases are shown in Section 16.

SECTION 4 - FIRST AID MEASURES

Description of first aid measures

- General:** In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
- Inhalation:** Remove from area to fresh air. If breathing is irregular or stopped, give artificial respiration. If unconscious, place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
- Eye Contact:** Remove contact lens and pour a gentle stream of warm water through the affected area for 15 minutes. Do not rub or scratch eyes. If irritation persists, contact a poison control center, emergency room, or physician as further treatment may be necessary.
- Skin Contact:** Remove contaminated clothing and shoes. Run cold water over the affected area for 15 minutes with mild soap. Seek medical attention if irritation persists.
- Ingestion:** If conscious, give large amounts of water. If the material is swallowed, get immediate medical attention or advice. Do not induce vomiting.

Most important symptoms and effects both acute and delayed

- Overview:** Inhalation: May cause lung irritation; potential sensitizer
Chronic Health Hazard: This product will cause burns to skin and eyes. High concentrations of vapor can cause irritation of respiratory tract. Prolonged or repeated exposure may cause asthma and skin sensitization or other allergic response.
See section 2 for further details.
- Eyes:** Causes serious eye irritation.
- Skin:** May cause an allergic skin reaction. Causes skin irritation.
- Ingestion:** Harmful if swallowed.

SECTION 5 - FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Dry chemical, foam, carbon dioxide and water fog.

Unsuitable Extinguishing Media: None known

Specific Hazards from the chemical during a fire: Hazardous decomposition: Carbon monoxide, carbon dioxide, aldehydes. Avoid breathing dust/fume/gas/mist/vapors/spray.

Special protective equipment for fire-fighters: Self-contained breathing apparatus (SCBA) and full firefighting gear should be worn.



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SECTION 6 - ACCIDENTAL RELEASE MEASURES

- Personal Precautions:** Use personal protection equipment recommended in Section 8.
- Environmental Precautions:** Do not allow spills to enter drains or waterways. Wash hands before eating drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before use.
- Methods for clean up:** Avoid all personal contact. Take up with absorbent material. Shovel into closeable container. Flush contaminated area with water. Do not flush to storm drains or water supplies.

For major spills call Chemtrec(800-424-9300)

Clean up should be performed by trained personnel only. People dealing with major spillages should wear full protective clothing including appropriate respiratory protection. Evacuate the area. Prevent further leakage, spillage or entry into drains.

SECTION 7 - HANDLING AND STORAGE

- Handling:** Avoid breathing aerosols, mist and vapors. Avoid contact with skin and eyes. See section 2 for further details. [Prevention]
- Storage:** Keep from freezing. Handle containers carefully to prevent damage and spillage. Store in a cool dry area. Keep container closed when not in use. See section 2 for further details. [Storage]
- Incompatible materials:** Avoid strong oxidizing agents, strong Lewis or mineral acids, strong mineral and organic bases.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:

CAS No.	Ingredient	Source	Value
00022425-79-8	Oxirane, 2,2'-[1,4-butanediylbis(oxymethylene)]bis-	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
0028064-14-4	Bisphenol F epoxy resin	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit

Carcinogen Data

CAS No.	Ingredient	Source	Value
00022425-79-8	Oxirane, 2,2'-[1,4-butanediylbis(oxymethylene)]bis-	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No Group 4: No
0028064-14-4	Bisphenol F epoxy resin	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No Group 4: No

Exposure Controls:

Respiratory Protection: When the product is sprayed or heated without adequate ventilation, an approved MSHA/NIOSH positive-pressure supplied air respirator may be required.

Eye Protection: Standard safety glasses with side shields; chemical goggles (if splashing is possible).

Skin Protection: Protective clothing should be selected. Gloves-neoprene, nitrile rubber, butyl rubber. Thin latex disposable gloves should be avoided for repeated or long term use.

Engineering Controls: Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

Hygiene Measures: Wash hands before and after breaks. Wear clean, body-covering clothing. Good personal hygiene and the use of barrier creams, caps, protective gloves, cotton coveralls or long sleeved loose fitting clothing will maximize comfort.



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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Appearance/Color:	Very viscous light yellow liquid
Odor:	Not specified
Odor Threshold:	NA
Vapor Pressure:	.03mmHg @ 171°F
Vapor Density:	NA
pH:	NA
Specific Gravity:	1.192 @ 77°F
Solubility (wt.% in water):	Insoluble
Freezing/Melting Point:	NA
Boiling Point:	> 200°F
Flash Point:	> 480°F Pensky Martin Closed Cup
Evaporation Rate:	NA
Flammability:	NA
Explosive limits:	NA
Partition coefficient: n-octanol/water	NA
Auto Ignition Temp:	NA
Decomposition Temp:	NA
Viscosity:	NA
Volume % Volatile:	none

SECTION 10 - STABILITY AND REACTIVITY

Reactivity:	Hazardous polymerization will not occur
Chemical Stability:	This product is stable.
Possible hazardous reactions:	No data available.
Conditions to avoid:	Elevated temperatures, strong acids or bases in bulk
Incompatible materials:	Avoid strong oxidizing agents, strong Lewis or mineral acids, strong mineral and organic bases.
Hazardous decomposition products:	Carbon monoxide, carbon dioxide, aldehydes

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute Toxicity

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50 ppm
Bisphenol F epoxy resin (28064-14-4)	2,000.00 Rat- Cat.:4	No data available	No data available	No data available	No data available
Oxirane, 2,2'-[1,4-butanediylbis(oxymethylene)]bis- (2425-79-8)	1,134.00 Rat- Cat.:4	1,130.00 Rabbit- Cat.:4	No data available	No data available	No data available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE(Acute Toxicity Estimate).



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Classification	Category	Hazard Description
Acute toxicity(oral)	4	Harmful if swallowed
Acute toxicity(dermal)		Not applicable
Acute toxicity(inhalation)		Not applicable
Skin corrosion/irritation	2	Causes skin irritation
Serious eye damage/irritation	2	Causes serious eye irritation
Respiratory sensitization		Not applicable
Skin sensitization	1	May cause an allergic skin reaction
Germ cell mutagenicity		Not applicable
Carcinogenicity		Not applicable
Reproductive toxicity		Not applicable
STOT-single exposure		Not applicable
STOT-repeated exposure		Not applicable
Aspiration hazard		Not applicable

SECTION 12 - ECOLOGICAL INFORMATION

Aquatic Ecotoxicity: Toxic to aquatic life with long lasting effects.

Ingredient	96hr LC50 fish mg/l	48hr EC50 crustacea, mg/l	ErC50 algae mg/l
Bisphenol F epoxy resin (28064-14-4)	9.00, Oncorhynchus mykiss	9.00 Daphnia magna	Not available
Oxirane, 2,2'-[1,4-butanediylbis(oxymethylene)]bis- (2425-79-8)	24.00, Danio rerio	75.00 Daphnia magna	Not available

Persistence and degradability There is no data available on the preparation itself.
Bioaccumulative Potential Not measured
Mobility in soil No data available
Results of PBT and vPvB assessment This product contains no PBT/vPvB chemicals.
Other adverse effects No data available

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal Method: Disposal should be in accordance with applicable regional, national and local laws and regulations. Disposal of this product and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local requirements.

SECTION 14 - TRANSPORT REGULATIONS

UN Number	DOT(Domestic Surface Transportation):	Not applicable
	IMO/IMDG(Ocean Transportation):	Not regulated
	ICAO/IATA:	Not regulated
UN Proper shipping name	DOT(Domestic Surface Transportation):	Not regulated
	IMO/IMDG(Ocean Transportation):	Not regulated
	ICAO/IATA:	Not regulated
Transport hazard class	DOT Hazard Class:	Not applicable
	IMDG/Sub Class:	Not applicable
	Air Class:	Not applicable
Packing group		Not applicable
Environmental hazards		Marine pollutant: Yes (Bisphenol F epoxy resin)
IMDG		
Special precautions for user		No further information



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SECTION 15 - REGULATORY INFORMATION

Regulatory Overview	The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.
Toxic Substance Control Act(TSCA)	All components of this material are either listed or exempt from listing on the TSCA Inventory.
WHMIS Classification	D2B
US EPA Tier II Hazards	Fire: No Sudden Release of Pressure: No Reactive: No Immediate(Acute): Yes Delayed(Chronic): No
EPCRA 311/312 Chemicals and RQs:	To the best of our knowledge there are no chemicals at levels which require reporting under this statute.
EPCRA 302 Extremely Hazardous:	To the best of our knowledge there are no chemicals at levels which require reporting under this statute.
EPCRA 313 Toxic Chemicals:	To the best of our knowledge there are no chemicals at levels which require reporting under this statute.
Proposition 65 - Carcinogens(>0.0%):	To the best of our knowledge there are no chemicals at levels which require reporting under this statute.
Proposition 65 - Developmental Toxins(0.0%):	To the best of our knowledge there are no chemicals at levels which require reporting under this statute.
Proposition 65 - Female Repro Toxins (0.0%):	To the best of our knowledge there are no chemicals at levels which require reporting under this statute.
Proposition 65 - Male Repro Toxins(0.0%):	To the best of our knowledge there are no chemicals at levels which require reporting under this statute.
New Jersey RTK Substances(>1%):	To the best of our knowledge there are no chemicals at levels which require reporting under this statute.
Pennsylvania RTK Substances(>1%):	To the best of our knowledge there are no chemicals at levels which require reporting under this statute.

SECTION 16 - OTHER INFORMATION

The full text of the phrases appearing in section 3 is:

H312	Harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H332	Harmful if inhaled
H411	Toxic to aquatic life with long lasting effects

The customer is responsible for determining the PPE code for this material.

SDS ISSUE DATE:	8/10/2015
SDS VERSION NUMBER:	1
SDS FORMAT:	(HCS)(29 CFR 1910.1200(g))
SDS REVISION NOTES:	
SDS AUTHOR:	DLM

Disclaimer: V2 Composites does not manufacture the components in the product. Component safety data sheets are available upon request. The SDS originates from the component SDS. Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use.



V2 200 Component B Safety Data Sheet

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name: V2 200 Component B
Other names: V2 200 Component B
Synonyms: Epoxy resin, saturating resin, hardener, catalyst
Recommended use: For use as a polyamine/modified epoxy hardener with the Structurewrap product line.
Restrictions of Use: None
Manufacturer's Name: V2 Composites, Inc.
Address: 770 Lee Road 191 Auburn, Alabama 36830
Telephone: 334-502-3000
Emergency phone number: CHEMTREC (800) 424-9300
Facsimile: 334-502-3088
Website: www.v2composites.com

SECTION 2 - HAZARDS IDENTIFICATION

Classification of the substance or mixture: Acute Tox. 4; H302 Harmful if swallowed
 Acute Tox. 4; H312 Harmful in contact with skin
 Skin Irrit. 1; H314 Causes severe skin burns and eye damage
 Eye Dam. 1; H318 Causes serious eye damage
 Repr. 2; H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.
 Aquatic Chronic 2; H411 Toxic to aquatic life with long lasting effects

GHS label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.



Danger

	H302	Harmful if swallowed
	H312	Harmful in contact with skin
	H314	Causes severe skin burns and eye damage
	H318	Causes serious eye damage
	H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
	H411	Toxic to aquatic life with long lasting effects
Prevention:	P201	Obtain special instructions before use.
	P202	Do not handle until all safety precautions have been read and understood.
	P260	Do not breathe dust/fumes/gas/mist/vapors/spray.
	P264	Wash thoroughly after handling.
	P270	Do not eat, drink, or smoke when using this product.
	P273	Avoid release to the environment.
	P280	Wear protective gloves/eye protection/face protection.
Response:	P301+312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
	P302+352	IF ON SKIN: Wash with plenty of soap and water.
	P303+361+353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
	P304+312	IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.
	P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do-continue rinsing.
	P308+313	IF exposed or concerned: Get medical advice/attention.
	P310	Immediately call a POISON CENTER/doctor/physician.
	P322	Specific measures(see information on this label).
	P330	Rinse mouth.
	P331	Do Not induce vomiting.
	P340	Remove person to fresh air and keep comfortable for breathing.
	P363	Wash contaminated clothing before reuse.
	P391	Collect spillage.



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Storage: P405 Store locked up.
Disposal: P501 Dispose of contents/container in accordance with local/national regulations.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substance regulations.

Ingredients/Chemical Designations	Weight %	GHS Classification	Notes
Polyoxypropylenediamine CAS Number: 0009046-10-0	50-75%	Skin Corr. 1; H314	[1]
Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-(2-aminomethylethoxy)-, ether with 2-ethyl-2-(hydroxymethyl)-1,3 CAS Number: 0039423-51-3	25-50%	Acute Tox. 3; H301 Acute Tox. 3; H311 Skin Corr. 1B; H314	[1]
Phenol, 4-nonyl-, branched CAS Number: 0084852-15-3	10-25%	Repr. 2; H361fd Acute Tox. 4; H302 Skin Corr. 1B; H314 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	[1]

In accordance with paragraph (i) of 1910.1200, the specific chemical identity and/or exact percentage(concentration) of composition has been withheld as a trade secret.

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

*The full texts of the phrases are shown in Section 16.

SECTION 4 - FIRST AID MEASURES

Description of first aid measures

- General:** In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
- Inhalation:** Remove from area to fresh air. If breathing is irregular or stopped, give artificial respiration. If unconscious, place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
- Eye Contact:** Remove contact lens and pour a gentle stream of warm water through the affected area for 15 minutes. Do not rub or scratch eyes. If irritation persists, contact a poison control center, emergency room, or physician as further treatment may be necessary.
- Skin Contact:** Remove contaminated clothing and shoes. Run cold water over the affected area for 15 minutes with mild soap. Seek medical attention if irritation persists.
- Ingestion:** If conscious, give large amounts of water. If the material is swallowed, get immediate medical attention or advice. Do not induce vomiting.

Most important symptoms and effects both acute and delayed

- Overview:** Inhalation: Inhalation is unlikely due to the low vapor pressure. If misted or handled at elevated temperatures, high concentrations may cause respiratory tract irritation.
 Note to Physician: Symptomatic and supportive therapy as needed. Following severe exposure medical follow-up should be monitored for at least 48 hours.
 See section 2 for further details.
- Eyes** Causes serious eye damage.
- Skin** Harmful in contact with skin. Causes severe skin burns and eye damage.
- Ingestion** Harmful if swallowed.



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SECTION 5 - FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Dry chemical, foam, carbon dioxide and water fog.
Unsuitable Extinguishing Media: None known

Specific Hazards from the chemical during a fire: Hazardous decomposition: Carbon monoxide, carbon dioxide, oxides of nitrogen, nitric acid, and ammonia. Avoid breathing dust/fume/gas/mist/vapors/spray.

Special protective equipment for fire-fighters: Self-contained breathing apparatus (SCBA) and full firefighting gear should be worn.
ERG Guide No. 153

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protection equipment recommended in Section 8.
Environmental Precautions: Do not allow spills to enter drains or waterways. Wash hands before eating drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before use.
Methods for clean up: Avoid all personal contact. Take up with absorbent material like sand. Shovel into closeable container. Wash the spillage area clean with liquid decontaminant.

For major spills call Chemtrec(800-424-9300)
 Clean up should be performed by trained personnel only. People dealing with major spillages should wear full protective clothing including appropriate respiratory protection. Evacuate the area
 Prevent further leakage, spillage or entry into drains.

SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling: Material is not considered hazardous as handled in most industrial operations. Exercise reasonable care and cleanliness. Spills of these organic liquids on hot fibrous insulation may lead to lowering of the auto-ignition temperature, possibly resulting in spontaneous combustion. Contact of the reacting materials with skin or eyes can cause severe burns and may be difficult to remove from the affected areas. Immediately wash affected areas with plenty of water and seek medical assistance.
 See section 2 for further details. [Prevention]

Storage: Keep from freezing. Handle containers carefully to prevent damage and spillage. Store in a cool dry area. Keep container closed when not in use.
 See section 2 for further details. [Storage]

Incompatible materials: Avoid strong oxidizing agents, mineral acids, epoxy resins under uncontrolled conditions
 Protect from atmospheric moisture. Replace outage with dry inert atmosphere.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:

CAS No.	Ingredient	Source	Value
0009046-10-0	Polyoxypropylenediamine	OSHA ACGIH NIOSH Supplier	No Established Limit No Established Limit No Established Limit No Established Limit
0039423-51-3	Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro .omega.(2-aminomethylethoxy)-, ether with -2-ethyl-2-(hydroxymethyl)-1,3	OSHA ACGIH NIOSH Supplier	No Established Limit No Established Limit No Established Limit No Established Limit
0084852-15-3	Phenol, 4-nonyl-, branched	OSHA ACGIH NIOSH Supplier	No Established Limit No Established Limit No Established Limit No Established Limit



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Carcinogen Data

CAS No.	Ingredient	Source	Value
0009046-10-0	Polyoxypropylenediamine	OSHA NTP IARC	Select Carcinogen: No Known: No; Suspected: No Group 1: No; Group 2a: No; Group 2b: No; Group 3: No Group 4: No
0039423-51-3	Poly[oxy(methyl-1,2-ethanediy)], .alpha.-hydro .omega.(2-aminomethylethoxy)-, ether with - 2-ethyl-2-(hydroxymethyl)-1,3	OSHA NTP IARC	Select Carcinogen: No Known: No; Suspected: No Group 1: No; Group 2a: No; Group 2b: No; Group 3: No Group 4: No
0084852-15-3	Phenol, 4-nonyl-, branched	OSHA NTP IARC	Select Carcinogen: No Known: No; Suspected: No Group 1: No; Group 2a: No; Group 2b: No; Group 3: No Group 4: No

Exposure Controls:

Respiratory Protection: For most conditions, no respiratory protection should be needed; however, if handling at elevated temperatures without sufficient ventilation, use an approved air-purifying respirator. In misty atmospheres, use an approved organic vapor respirator in combination with a dust/mist filter.

Eye Protection: Chemical goggles

Skin Protection: Use gloves impervious to this material when prolonged or frequently repeated contact could occur. If hands are cut or scratched, use gloves impervious to this material even for brief exposures.

Engineering Controls: Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

Hygiene Measures: Wash hands before and after breaks. Wear clean, body-covering clothing. Good personal hygiene and the use of barrier creams, caps, protective gloves, cotton coveralls or long sleeved loose fitting clothing will maximize comfort.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Appearance/Color:	Light yellow corrosive liquid
Odor:	Ammonia
Odor Threshold:	NA
Vapor Pressure:	Heavier
Vapor Density:	NA
pH:	NA
Specific Gravity:	.956 @ 77°F
Solubility (wt.% in water):	Highly soluble
Freezing/Melting Point:	NA
Boiling Point:	> 342°F
Flash Point:	> 121°C Pensky Martin Closed Cup
Evaporation Rate(Ether=1):	Slower
Flammability:	NA
Explosive limits:	NA
Partition coefficient: n-octanol/water	NA
Auto Ignition Temp:	NA
Decomposition Temp:	NA
Viscosity:	NA
VOC content:	NA



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SECTION 10 - STABILITY AND REACTIVITY

Reactivity:	Hazardous polymerization will not occur
Chemical Stability:	This product is stable.
Possible hazardous reactions:	No data available.
Conditions to avoid:	Elevated temperatures
Incompatible materials:	Avoid strong oxidizing agents, mineral acids, epoxy resins under uncontrolled conditions
Hazardous decomposition products:	Carbon monoxide, carbon dioxide, oxides of nitrogen, nitric acid, ammonia

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute Toxicity

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50 ppm
Polyoxypropylenediamine (9046-10-0)	1,100.00 Rat- Cat.:4	980.00 Rabbit- Cat.:3	No data available	No data available	No data available
Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro.-omega.(2-aminomethylethoxy)-, ether with 2-ethyl-2-(hydroxymethyl)-1,3 (39423-51-3)	No data available	No data available	No data available	No data available	No data available
Phenol, 4-nonyl-, branched (84852-15-3)	No data available	No data available	No data available	No data available	No data available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE(Acute Toxicity Estimate).

Classification	Category	Hazard Description
Acute toxicity(oral)	4	Harmful if swallowed
Acute toxicity(dermal)	4	Harmful in contact with skin
Acute toxicity(inhalation)		Not applicable
Skin corrosion/irritation	1	Causes severe skin burns and eye damage
Serious eye damage/irritation	1	Causes serious eye damage
Respiratory sensitization		Not applicable
Skin sensitization		Not applicable
Germ cell mutagenicity		Not applicable
Carcinogenicity		Not applicable
Reproductive toxicity		Suspected of damaging fertility. Suspected of damaging unborn child.
STOT-single exposure		Not applicable
STOT-repeated exposure		Not applicable
Aspiration hazard		Not applicable



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SECTION 12 - ECOLOGICAL INFORMATION

Aquatic Ecotoxicity: Toxic to aquatic life with long lasting effects.

Ingredient	96hr LC50 fish mg/l	48hr EC50 crustacea, mg/l	ErC50 algae mg/l
Polyoxypropylenediamine (9046-10-0)	Not available	15.00 Daphnia magna	Not available
Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.(2-aminomethylethoxy)-, ether with 2-ethyl-2-(hydroxymethyl)-1,3 (39423-51-3)	Not available	Not available	Not available
Phenol, 4-nonyl-, branched (84852-15-3)	Not available	Not available	Not available

Persistence and degradability There is no data available on the preparation itself.

Bioaccumulative Potential Not measured

Mobility in soil No data available

Results of PBT and vPvB assessment This product contains no PBT/vPvB chemicals.

Other adverse effects No data available

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal Method: Disposal should be in accordance with applicable regional, national and local laws and regulations. Disposal of this product and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local requirements.

SECTION 14 - TRANSPORT REGULATIONS

UN Number	DOT(Domestic Surface Transportation):	UN2735
	IMO/IMDG(Ocean Transportation):	UN2735
	ICAO/IATA:	UN2735
UN Proper shipping name	DOT(Domestic Surface Transportation):	UN2735, Polyamines, liquid, corrosive, n.o.s., (Polyoxypropylene diamine, Alkylated phenol), 8, III
	IMO/IMDG(Ocean Transportation):	UN2735, Polyamines, liquid, corrosive, n.o.s., (Polyoxypropylene diamine, Alkylated phenol)
	ICAO/IATA:	UN2735, Polyamines, liquid, corrosive, n.o.s., (Polyoxypropylene diamine, Alkylated phenol)
Transport hazard class	DOT Hazard Class:	8
	IMDG/Sub Class:	8/Not applicable
	Air Class:	8
Packing group	DOT Hazard Class:	III
	IMDG/Sub Class:	III
	Air Class:	III

Environmental hazards Marine pollutant: Yes (Phenol, 4-nonyl-, branched)

IMDG

Special precautions for user No further information



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SECTION 15 - REGULATORY INFORMATION

Regulatory Overview	The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.
Toxic Substance Control Act(TSCA)	All components of this material are either listed or exempt from listing on the TSCA Inventory.
WHMIS Classification	D2A E
US EPA Tier II Hazards	Fire: No Sudden Release of Pressure: No Reactive: No Immediate(Acute): Yes Delayed(Chronic): No
EPCRA 311/312 Chemicals and RQs:	To the best of our knowledge there are no chemicals at levels which require reporting under this statute.
EPCRA 302 Extremely Hazardous:	To the best of our knowledge there are no chemicals at levels which require reporting under this statute.
EPCRA 313 Toxic Chemicals:	To the best of our knowledge there are no chemicals at levels which require reporting under this statute.
Proposition 65 - Carcinogens(>0.0%):	To the best of our knowledge there are no chemicals at levels which require reporting under this statute.
Proposition 65 - Developmental Toxins(0.0%):	To the best of our knowledge there are no chemicals at levels which require reporting under this statute.
Proposition 65 - Female Repro Toxins (0.0%):	To the best of our knowledge there are no chemicals at levels which require reporting under this statute.
Proposition 65 - Male Repro Toxins(0.0%):	To the best of our knowledge there are no chemicals at levels which require reporting under this statute.
New Jersey RTK Substances(>1%):	To the best of our knowledge there are no chemicals at levels which require reporting under this statute.
Pennsylvania RTK Substances(>1%):	To the best of our knowledge there are no chemicals at levels which require reporting under this statute.

SECTION 16 - OTHER INFORMATION

The full text of the phrases appearing in section 3 is:

H301	Toxic if swallowed
H302	Harmful if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects.

The customer is responsible for determining the PPE code for this material.

SDS ISSUE DATE:	8/10/2015
SDS VERSION NUMBER:	1
SDS FORMAT:	(HCS)(29 CFR 1910.1200(g))
SDS REVISION NOTES:	
SDS AUTHOR:	DLM

Disclaimer: V2 Composites does not manufacture the components in the product. Component safety data sheets are available upon request. The SDS originates from the component SDS. Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use.