V2 BB Paste Component A Safety Data Sheet

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name:	**V2 BB Paste Component A**
Other names:	V2 BB Paste Component A
Synonyms:	Epoxy resin, epoxy paste
Recommended use:	For use as a structural epoxy primer/filler.
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:

Skin Irrit. 2; H315	Causes skin irritation
Eye Irrit. 2; H319	Causes serious eye irritation
Skin Sens. 1; H317	May cause an allergic skin reaction
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.

Warning

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.
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:

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).

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.

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
Diglycidyl ether pf bisphenol A CAS Number: 0025068-38-6	75-100%	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Chronic 2; H411	[1]
Amorphous silica, hydrophobic CAS Number: 0067762-90-7	1.0-10	Not classified	[1]
Titanium dioxide CAS Number: 0013463-67-7	1.0-10	Not classified	[1][2]

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 wil cause irritation to skin and eyes. High concentrations of vapor can cause irritation of respiratory tract.
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: Water spray, dry chemical, alcohol foam, carbon dioxide.

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: At higher temperatures vapors can cause pressure buildup in sealed containers. Use water to cool containers exposed to fire. Self-contained respirator equipment and full protective clothing required when smoke or fumes are generated. Electrical grounding not recommended.

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: Strong acids and strong bases. Amines and mercaptans may initiate possible hazardous polymerization.

If container is exposed to high heat, it can be pressurized and possibly rupture expolosively. Keep the container tightly closed and in a coll, well ventilated place.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:

CAS No.	Ingredient	Source	Value
0013463-67-7	Diglycidyl ether of bisphenol A	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
0025068-38-6	Titanium dioxide	OSHA	TWA: 15 mg/m^3
		ACGIH	TWA: 10mg/$m^3$2B, Revised 2006
		NIOSH	Footnote ca
		Supplier	No Established Limit
0067762-90-7	Amorphous silica, hydrophobic	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit

Carcinogen Data

CAS No.	Ingredient	Source	Value
0013463-67-7	Diglycidyl ether of bisphenol A	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
0025068-38-6	Titanium dioxide	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: Yes; Group 3: No Group 4: No
0067762-90-7	Amorphous silica, hydrophobic	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.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Appearance/Color:	Slightly viscuos liquid
Odor:	sweet smelling gel
Odor Threshold:	NA
Vapor Pressure:	1.0mmHg @ 180°F
Vapor Density:	NA
pH:	NA
Specific Gravity:	1.20 @ 77°F
Solubility (wt.% in water):	Slight
Freezing/Melting Point:	NA
Boiling Point:	> 200°F
Flash Point:	> 99°c 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 may occur if product is not handled as per instructions.

Chemical Stability: This product requires another product to react at room temperature. Mix and use product in accordance with directions for safety. Excessive heat and fume generation can occur if improperly handled. Not sensitive to mechanical impact.

Possible hazardous reactions: Strong

Conditions to avoid: Elevated temperatures, strong acids or bases in bulk

Incompatible materials: Strong acids and bases. Amines and mercaptans may initiate possible hazardous polymerization.

Hazardous decomposition products: Carbon monoxide, carbon dioxide, aldehydes, and various compounds from incomplete combustion.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute Toxicity

Based on the properties of the epoxy constituents and considering toxicological data on similar preparations this preparation may be an irritant and a skin and respiratory sensitizer. Low molecular weight epoxy constituents are irritating to eyes, mucous membranes and skin. Repeated skin contact may lead to irritation and sensitization, possibly with cross-sensitization to other epoxies. Skin contact with the preparation and exposure to spray mist and vapor should be avoided.

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
Diglycidyl ether of bisphenol A (25068-38-6)	>5,000.00 Rat- Cat.: NA	20,000.00 Rabbit	No data available	No data available	No data available
Amorphous Silica, hydrophobic (67762-90-7)	1,000.00 Rat- Cat.:4	2,000.00 Rabbit- Cat.:4	No data available	No data available	No data available
Titanium dioxide (13463-67-7)	10,000.00 Rat- Cat.: NA	10,000.00 Rabbit- Cat: NA	No data available	6.82, Rat - Cat.: NA	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)		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
Diglycidyl ether of bisphenol A (25068-38-6)	3.10, Pimephales promelas	1.40, Daphnia magna	Not available
Amorphous Silica, hydrophobic (67762-90-7)	Not available	Not available	Not available
Titanium dioxide (13463-67-7)	1,000.00, Fundulus heteroclitus	5.50 Daphnia magna	5.83 (72hr), Pseudokirchneriella subcapitata

Persistance 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 (Diglycidyl ether of bisphenol A)
IMDG
Special precautions for user No further information

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%): Titanium dioxide

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%): Titanium dioxide

Pennsylvannia RTK Substances(>1%): Titanium dioxide

SECTION 16 - OTHER INFORMATION

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

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

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

SDS ISSUE DATE: 9/23/2015
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 BB Paste Component B Safety Data Sheet

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name:	**V2 BB Paste Component B**
Other names:	V2 BB Paste Component B
Synonyms:	Epoxy resin, hardener, catalyst
Recommended use:	For use as a epoxy hardener with the V2 BB Paste Component A.
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:

Carc., H351	Suspected of causing cancer
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
Skin Sens. 1;H317	May cause an allergic reaction
Repr. 2; H361f	Suspected of damaging fertility.
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.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H351	Suspected of causing cancer.
H361f	Suspected of damaging fertility.
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.
P261	Avoid breathing dust/fumes/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.
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.
P321 Specific treatment(see information on this label).
P330 Rinse mouth.
P331 Do Not induce vomiting.
P333+313 If skin irritation or a rash occurs: Get medical advice/attention.
P340: Remove person to fresh air and keep comfortable for breathing.
P363 Wash contaminated clothing before reuse.
P391 Collect spillage.

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
Tetraethylenepentamine CAS Number: 0000112-57-2	<2%	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Corr. 1B; H314 Skin Sens. 1; H317 Aquatic Chronic 2; H411	[1]
Diethylenetriamine (DETA) CAS Number: 0000111-40-0	5-15%	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Corr. 1B; H314 Skin Sens. 1; H317	[1][2]
TOFA, reaction product with TEPA CAS Number: 0068953-36-6	70-90%	Eye Dam. 1; H318 Aquatic Chronic 2; H411	[1]
Diphenylolpropane CAS Number: 0000080-05-7	1.0-10%	Repr. 2; H361f STOT SE 3; H335 Eye Dam. 1; H318 Skin Sens. 1; H317	[1]
Carbon black CAS Number: 0001333-86-4	1.0-10%	Not classified	[1][2]
Amorphous Silica, hydrophobic CAS Number: 67762-90-7	5-10%	Not classified	[1]
Aluminosilicate fibre CAS Number: 0142844-00-6	<2%	Carc. 2, H351	[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
See section 2 for further details.

Eyes Causes serious eye damage.

Skin Harmful in contact with skin. May cause an allergic reaction. Causes severe skin burns and eye damage.

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: Oxides of carbon and nitrogen, 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.

ERG Guide No.

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: Avoid breathing aerosols, mists 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. If container is exposed to high heat, it can be pressurized and possibly rupture explosively.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:

CAS No.	Ingredient	Source	Value
0000080-05-7	Diphenylolpropane	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
0000111-40-0	Diethylenetriamine(DETA)	OSHA	No Established Limit
		ACGIH	TWA: 1ppmSkin, S
		NIOSH	TWA: 1ppm(4mg/m^3) [skin]
		Supplier	No Established Limit
0000112-57-2	Tetraethylenepentamine	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
0001333-86-4	Carbon black	OSHA	TWA 3.5mg/m3
		ACGIH	TWA: 3mg/m3 2B, Revised 2011
		NIOSH	TWA: 3.5mg/m3 Ca TWA .1mg PAHs/m3 [in presence of polycyclic aromatic hydrocarbons(PAHs)]
		Supplier	No Established Limit
0068953-36-6	TOFA, reaction product with TEPA	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
67762-90-7	Amorphous silica, hyrdophobic	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
0142844-00-6	Aluminosilicate fibre	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit

Carcinogen Data

CAS No.	Ingredient	Source	Value
0000080-05-7	Diphenylolpropane	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
0000111-40-0	Diethylenetriamine(DETA)	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
0000112-57-2	Tetraethylenepentamine	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
0001333-86-4	Carbon black	OSHA NTP IARC	Select Carcinogen: No Known: No; Suspected: No Group 1: No; Group 2a: No; Group 2b: Yes; Group 3: No Group 4: No
0068953-36-6	TOFA, reaction product with TEPA	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
67762-90-7	Amorphous silica, hydrophobic	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
0142844-00-6	Aluminosilicate fibre	OSHA NTP IARC	Select Carcinogen: No Known: No; Suspected: No Group 1: No; Group 2a: No; Group 2b: Yes; 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 (if splashing is possible)

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:	Slightly viscous liquid
Odor:	Sweet smelling gel
Odor Threshold:	NA
Vapor Pressure:	1.0mmHg @ 180°F
Vapor Density:	NA
pH:	NA
Specific Gravity:	1.20 @ 77°F
Solubility:	Slight
Freezing/Melting Point:	NA
Boiling Point:	Not determined
Flash Point:	> 383°F Pensky Martin Closed Cup
Evaporation Rate(Ether=1):	Not determined
Flammability:	NA
Explosive limits:	NA
Partition coefficient: n-octanol/water	NA
Auto Ignition Temp:	NA
Decomposition Temp:	NA
Viscosity:	NA
VOC content:	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

Hazardous decomposition products: Oxides of carbon and nitrogen, 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
Tetraethylenepentamine (112-57-2)	2,140.00 Rat- Cat.:5	No data available	No data available	No data available	No data available
Diethylenetriamine(DETA) (111-40-0)	1,080.00 Rat- Cat.:4	1,090.00 Rabbit- Cat:4	No data available	No data available	No data available
TOFA, reaction product with TEPA (68953-36-6)	2,000.00 Rat- Cat.:4	No data available	No data available	No data available	No data available
Diphenylolpropane (80-05-7)	5,000.00 Rat- Cat.:5	3,000.00 Rabbit- Cat:5	No data available	No data available	No data available
Carbon black (1333-86-4)	8,000.00 Rat- Cat.:NA	No data available	No data available	No data available	No data available
Aluminosilicate fibre (0142844-00-6)	No data available	No data available	No data available	No data available	No data available
Amorphous silica, hydrophobic (67762-90-7)	1,000.00 Rat- Cat.: 4	2,000.00 Rat- 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).

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	1B	Causes severe skin burns and eye damage
Serious eye damage/irritation	1	Causes serious eye damage
Respiratory sensitization		Not applicable
Skin sensitization	1	May cause an allergic skin reaction
Germ cell mutagenicity		Not applicable
Carcinogenicity	2	Suspected of causing cancer.
Reproductive toxicity	2	Suspected of damaging fertility.
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
Tetraethylenepentamine (112-57-2)	420.00 Poecilla reticulata	24.00 Daphnia magna	2.00(72hr) Pseudokirchneriella subcapitata
Diethylenetriamine(DETA) (111-40-0)	1014.00 Poecilla reticulata	53.50 Daphnia magna	345.60(72hr) Pseudokirchneriella subcapitata
TOFA, reaction product with TEPA (68953-36-6)	9.00 Fish(Piscis)	9.00 Daphnia magna	9.00(72hr) Algae
Diphenylolpropane (80-05-7)	4.60, Pimephales promelas	7.75 Daphnia magna	2.73(96hr) Pseudokirchneriella subcapitata
Carbon black (1333-86-4)	1000.00 Danio rerio	5,600.00 Daphnia magna	10,000.00(72hr) Pseudokirchneriella subcapitata
Amorphous silica, hydrophobic (67762-90-7)	No date available	No data available	No data available
Aluminosilicate fibre (0142844-00-6)	No date available	No data available	No data available

Persistance 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	**DOT Hazard Class:**	Not applicable
	IMDG/Sub Class:	Not applicable
	Air Class:	Not applicable

Environmental hazards IMDG Marine pollutant: Yes (Tetraethylenepentamine)

Special precautions for user No further information

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: Diphenylolpropane

Proposition 65 - Carcinogens(>0.0%): Carbon black

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%):	Diphenylolpropane
	Carbon black
	Diethylenetriamine(DETA)
	Tetraethylenepentamine
	Aluminosilicate fibre
Pennsylvannia RTK Substances(>1%):	Diphenylolpropane
	Carbon black
	Diethylenetriamine(DETA)
	Tetraethylenepentamine
	Aluminosilicate fibre

SECTION 16 - OTHER INFORMATION

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

H302	Harmful if swallowed.
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.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H361f	Suspected of damaging fertility.
H411	Toxic to aquatic life with long lasting effects.

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

SDS ISSUE DATE:	9/23/2015
SDS VERSION NUMBER:	1
SDS FORMAT:	(HCS)(29 CFR 1910.1200(g))
SDS REVISION NOTES:	
SDS AUTHOR:	DLM

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