The following SDS references the product below:

<u>Steel Reinforced Epoxy Resin – Twin Tubes - Part A</u>

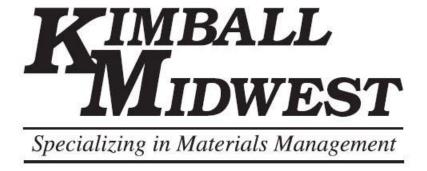
Vendor Item Number: 8265, 8265F, 8276, 8276F, 8265S, 8265A, 8265H, 8272, 8272F, 8280, 8280F, 8281, 80165, 7265S, 7280, 8276A, 8273H, 8270, 8270F, 8271, 80176, 7276, 7270

Manufactured By:

J-B WELD COMPANY

Distributed by Kimball Midwest with the KM productidentification number:

*80-731* 





Issuing Date 11-Nov- 2014 Revision Date 11-Nov-2014 Revision Number 1

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

#### **Product identifier**

Product SDS Name Steel Reinforced Epoxy Resin – Twin Tubes - Part A

#### J-B Weld FG SKU Part Numbers Covered

8265, 8265F, 8276, 8276F, 8265S, 8265A, 8265H, 8272, 8272F, 8280, 8280F, 8281, 80165, 7265S, 7280, 8276A, 8273H, 8270, 8270F, 8271, 80176, 7276, 7270

#### **J-B Weld Product Names Covered**

J-B Weld™ (all Twin Tubes), KwikWeld™ (all Twin Tubes), MarineWeld™ (Twin Tubes Only)

#### **J-B Weld Product Type**

#### **Steel Reinforced Epoxy**

#### Recommended use of the chemical and restrictions on use

Recommended Use General Purpose Adhesive
Uses advised against No information available

#### Details of the supplier of the safety data sheet

**Supplier Name** J-B WELD COMPANY,LLC

Supplier Address 1130 COMO ST

SULPHUR SPRINGS, TX 75482

USA

Emergency Telephone Numbers Transportation Emergencies: Chemtrec (24 hour transportation emergency response info):

800-424-9300 or 703-527-3887

Poison/Medical Emergencies: Poison Control Centers (24 hour emergency poison / medical

response info): 800-222-1222

Supplier Email <u>info@jbweld.com</u>

Supplier Phone Number 903-885-7696

# 2. HAZARDS IDENTIFICATION

OSHA/HCS status This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Classification of the SKIN CORROSION/IRRITATION - Category 2

substance or mixture SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B

GHS label elements SKIN SENSITIZATION - Category 1



**Hazard pictograms** 

Signal word Warning!

Hazard statements Causes skin and eye irritation.

May cause an allergic skin reaction.

**Precautionary statements** 

Prevention Wear protective gloves. Wear eye or face protection. Avoid breathing dust. Wash

hands thoroughly after handling. Contaminated work clothing should not be allowed out

of the workplace.

Response IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing.

Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists:

Get medical attention.

Storage Not applicable.

Disposal Dispose of contents and container in accordance with all local, regional, national and

international regulations.

Hazards not otherwise

classified

None known.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture Mixture

Ingredient name	% by weight	CAS number
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin	10 - 30	25068-38-6
'	0.1 - 1 0.1 - 1	14808-60-7 1333-86-4

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

# 4. FIRST AID MEASURES

#### Description of necessary first aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is

irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention

immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Skin contact** Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing

thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean

shoes thoroughly before reuse.

**Eye contact** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove

any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

**Ingestion** Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position

comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention

immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

#### Most important symptoms/effects, acute and delayed

Potential acute health effects

**Inhalation** No known significant effects or critical hazards.

**Skin contact**Causes skin irritation. May cause an allergic skin reaction.

**Eye contact** Causes serious eye irritation.

**Ingestion** Irritating to mouth, throat and stomach.

.....



Over-exposure signs/symptoms

**Inhalation** No specific data.

**Skin contact** Adverse symptoms may include the following:

irritation redness

**Eye contact** Adverse symptoms may include the following:

pain or irritation

watering redness

**Ingestion** No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

been ingested or inhaled.

**Specific treatments** No specific treatment.

See toxicological information (Section 11)

# 5. FIRE-FIGHTING MEASURES

Use an extinguishing agent suitable for the surrounding fire.

**Extinguishing media** 

Suitable extinguishing

media

Unsuitable extinguishing

media

None known.

Specific hazards arising from the chemical

No specific fire or explosion hazard.

**National Fire Protection Association (U.S.A.)** 

Health



**Flammability** 

Instability/Reactivity

**Special** 

Hazardous thermal decomposition products

Decomposition products may include the following materials:

carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides

Special protective actions for fire-fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.



## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel No action shall be taken involving any personal risk or without suitable

training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation

is inadequate. Put on appropriate personal protective equipment.

For emergency responders

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the

information in "For non-emergency personnel".

Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product

has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill Move containers from spill area. Avoid dust generation. Using a vacuum

with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste

disposal contractor.

Large spill Move containers from spill area. Approach release from upwind. Prevent

entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for

emergency contact information and Section 13 for waste disposal.

# 7. HANDLING AND STORAGE

Conditions for safe storage, including any incompatibilities

Do not store below the following temperature: 35°C (95°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Precautions for safe handling

**Protective measures** 

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

\_\_\_\_\_\_



# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control parameters**

#### **Occupational exposure limits**

Ingredient name	CAS#	Exposure limits
crystalline silica non-respirable	14808-60-7	OSHA PEL Z3 (United States, 9/2005). Notes: 250/(%SiO2+5) TWA: 250 MPPCF / (%SiO2+5) 8 hours. Form: Respirable OSHA PEL Z3 (United States, 9/2005). Notes: 10/(SiO2+2) TWA: 10 MG/M3 / (%SiO2+2) 8 hours. Form: Respirable ACGIH TLV (United States, 3/2012). TWA: 0.025 mg/m³ 8 hours. Form: Respirable fraction NIOSH REL (United States, 1/2013). TWA: 0.05 mg/m³ 10 hours. Form: respirable dust OSHA PEL Z3 (United States, 9/2005). Notes: 30/(%SiO2+2) TWA: 30 MG/M3 / (%SiO2+2) 8 hours. Form: Total dust.
carbon black respirable	1333-86-4	OSHA PEL 1989 (United States, 3/1989).  TWA: 3.5 mg/m³ 8 hours.  ACGIH TLV (United States, 6/2013).  TWA: 3 mg/m³ 8 hours. Form: Inhalable fraction NIOSH REL (United States, 10/2013).  TWA: 3.5 mg/m³ 10 hours.  TWA: 0.1 mg of PAHs/cm³ 10 hours.  OSHA PEL (United States, 2/2013).  TWA: 3.5 mg/m³ 8 hours.

# controls

Appropriate engineering No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

#### **Environmental exposure** controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### Individual protection measures

**Hygiene measures** 

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Respiratory protection

Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

#### Skin protection **Hand protection**

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

#### **Body protection**

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.



Other skin protection Appropriate footwear and any additional skin protection measures should be selected

based on the task being performed and the risks involved and should be approved by a

specialist before handling this product.

**Eye/face protection** Safety eyewear complying with an approved standard should be used when a risk

assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases, or dusts. If contact is possible, the following protection should be worn, unless the

assessment indicates a higher degree of protection: chemical splash goggles.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state Solid.

Color Black. [Dark]
Odor Ethereal. [Slight]
Odor threshold Not available.

PH Not available.
Melting point Not available.

Flash point Closed cup: >93.3°C (>199.9°F) [Setaflash.] [Product does not sustain combustion.]

**Evaporation rate** Not available.

Flammability (solid, gas) Extremely flammable in the presence of the following materials or conditions: open

flames, sparks and static discharge.

Non-flammable in the presence of the following materials or conditions: heat, shocks and mechanical impacts, oxidizing materials, reducing materials, combustible materials,

organic materials, metals, acids, alkalis and moisture.

Lower and upper explosive

(flammable) limits

**Boiling point** 

Not available.

Not available.

Vapor pressure Not available.
Vapor density Not available.

Relative density 1.927

**Solubility** Insoluble in the following materials: cold water and hot water.

Solubility in water

Auto-ignition temperature

Decomposition temperature

Viscosity

Not available.

>220°C (>428°F)

Not available.

VOC (% content) <1%

# 10. STABILITY AND REACTIVITY

**Reactivity**No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** The product is stable.

Possibility of hazardous

reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid No specific data

Incompatible materials No specific data

**Hazardous decomposition** 

products

Under normal conditions of storage and use, hazardous decomposition products should

not be produced.



# 11. TOXICOLOGICAL INFORMATION

#### Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
carbon black respirable	LD50 Oral	Rat	>15400 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
reaction product: bisphenol- A(epichlorhydrin); epoxy resin	Eyes - Mild irritant	Rabbit	-	100 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 microliters	-
	Skin - Severe irritant	Rabbit	-	24 hours 2 milligrams	-

## **Sensitization**

No specific data.

#### **Mutagenicity**

No specific data.

#### **Carcinogenicity**

No specific data.

#### Classification

Product/ingredient name	OSHA	IARC	NTP
crystalline silica nonrespirable	-	1	Known to be a human carcinogen.
carbon black respirable	-	2B	-

#### Reproductive toxicity

No specific data.

#### **Teratogenicity**

No specific data.

#### Specific target organ toxicity (single exposure)

No specific data.

#### Specific target organ toxicity (repeated exposure)

No specific data.

## **Aspiration hazard**

No specific data.

Information on the likely routes of exposure

Not available.

# Potential acute health effects

**Eye contact** Causes serious eye irritation.

**Inhalation** No known significant effects or critical hazards.

**Skin contact** Causes skin irritation. May cause an allergic skin reaction.

**Ingestion** Irritating to mouth, throat and stomach.

Symptoms related to the physical, chemical and toxicological characteristics



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**Eye contact** Adverse symptoms may include the following:

pain or irritation

watering redness

**Inhalation** No specific data.

**Skin contact** Adverse symptoms may include the following:

irritation

redness

Ingestion No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects Not available.

Potential delayed effects Not available.

Long term exposure

Potential immediate effects Not available.

Potential delayed effects Not available.

Potential chronic health effects No specific data.

General Once sensitized, a severe allergic reaction may occur when subsequently exposed to

very low levels.

CarcinogenicityNo known significant effects or critical hazards.MutagenicityNo known significant effects or critical hazards.TeratogenicityNo known significant effects or critical hazards.Developmental effectsNo known significant effects or critical hazards.Fertility effectsNo known significant effects or critical hazards.

**Numerical measures of toxicity** 

Acute toxicity estimates No specific data.

# 12. ECOLOGICAL INFORMATION

#### **Toxicity**

No specific data.

#### Persistence and degradability

No specific data.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
reaction product: bisphenol-A(epichlorhydrin); epoxy resin	2.64 to 3.78	31	low

#### Mobility in soil

Soil/water partition coefficient (Koc) Not available.

Other adverse effects No known significant effects or critical hazards.

# 13. DISPOSAL CONSIDERATIONS



#### **Disposal methods**

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**RCRA** classification

Not available.

14. TRANSPORT INFORMATION						
	DOT Classification	TDG Classification	Mexico Classification	IMDG	IATA	
UN Number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.	
UN proper shipping name	-	-	-	-	-	
Transport hazard class(es)	-	-	-	-	-	
Packing group	-	-	-	-	-	
Environmental hazards	No.	No.	No.	No.	No.	
Additional information	-	-	-	-	-	

Special precautions for user

**Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

# 15. REGULATORY INFORMATION

U.S. Federal regulations TSCA 8(a) PAIR

TSCA 8(a) PAIR: Siloxanes and Silicones, di-Me, reaction products with silica

TSCA 9(a) CDR Exempt/partial exemption: Not determined

United States Inventory (TSCA 8b): All components are listed or exempted.

Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs) Not listed

Clean Air Act Section 602 Class I Substances

Not listed

Clean Air Act Section 602 Class II Substances

Not listed

**SARA 302/304** 

Composition/information on ingredients No products were found.

SARA 304 RQ Not applicable



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Classification

Immediate (acute) health hazard

#### **Composition / information on ingredients**

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin	10-30	No.	No.	No.	Yes.	No.
crystalline silica non-respirable	0.1-1	No.	No.	No.	No.	Yes
carbon black respirable	0.1-1	No.	No.	No.	No.	Yes.

State regulations

Massachusetts The following components are listed: CALCIUM CARBONATE

**New York** None of the components are listed.

New Jersey The following components are listed: CALCIUM CARBONATE; LIMESTONE, SILICA,

QUARTZ; QUARTZ (SiO2); CARBON BLACK

Pennsylvania The following components are listed: LIMESTONE; QUARTS (SiO2); CARBON BLACK

Minnesota Hazardous Substances None of the components are listed.

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

Ingredient Name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
crystalline silica non-respirable	Yes.	No.	No.	No.
carbon black respirable	Yes.	No.	No.	No.

Canada inventory
International regulations
International lists

All components are listed or exempted.

**Australia inventory (AICS):** All components are listed or exempted. **China inventory (IECSC):** All components are listed or exempted.

Japan inventory: Not determined.

**Korea inventory:** All components are listed or exempted. **Malaysia Inventory (EHS Register):** Not determined.

New Zealand Inventory of Chemicals (NZIoC): Not determined.

Phillipines inventory (PICCS): All components are listed or exempted.

Taiwan inventory (CSNN): Not determined.

Substances of very high concern None of the components are listed.

# **16. OTHER INFORMATION**

**Key to abbreviations** ATE = Acute Toxicity Estimate

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BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From

Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

NON-WARRANTY: The information presented in this publication is based upon the research and experience of J-B Weld Company. No representation or warranty is made, however, concerning the accuracy or completeness of the information presented in this publication. J-B Weld Company makes no warranty or representation of any kind, express or implied, including without limitation any warranty of merchantability or fitness for any particular purpose, and no warranty or representation shall be implied by law or otherwise. Any products sold by J-B Weld Company are not warranted as suitable for any particular purpose to the buyer. The suitability of any products for any purpose particular to the buyer is for the buyer to determine. J-B Weld Company assumes no responsibility for the selection of products suitable to the particular purposes of any particular buyer. J-B Weld Company shall in no event be liable for any special, incidental, or consequential damages.







Issuing Date 11-Nov- 2014 Revision Date 11-Nov-2014 Revision Number 1

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product identifier** 

Product SDS Name Steel Reinforced Epoxy Hardener – Fast Cure – Twin Tubes - Part B

J-B Weld FG SKU Part Numbers Covered

8276, 8276F, 8276A, 8276H, 8270, 8270F, 8271, 80176, 7276, 7270

**J-B Weld Product Names Covered** 

KwikWeld™ (Twin Tubes), J-B Kwik™ (Twin Tubes)

**J-B Weld Product Type** 

**Epoxy** 

Recommended use of the chemical and restrictions on use

Recommended Use General Purpose Adhesive
Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Name J-B WELD COMPANY,LLC

Supplier Address 1130 COMO ST

SULPHUR SPRINGS, TX 75482

USA

**Emergency Telephone Numbers** Transportation Emergencies: Chemtrec (24 hour transportation emergency response info):

800-424-9300 or 703-527-3887

Poison/Medical Emergencies: Poison Control Centers (24 hour emergency poison / medical

response info): 800-222-1222

Supplier Email <u>info@jbweld.com</u>

Supplier Phone Number 903-885-7696

2. HAZARDS IDENTIFICATION

OSHA/HCS status This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Classification of the substance or mixture GHS label elements

ACUTE TOXICITY: ORAL - Category 4 ACUTE TOXICITY: SKIN - Category 4



Hazard pictograms
Signal word

Warning!

Hazard statements Harmful if swallowed or in contact with skin.

**Precautionary statements** 

**Prevention** Wear protective gloves, Wear protective clothing. Do not eat, drink or smoke when

using this product. Wash hands thoroughly after handling.

Response IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse

mouth. IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or

physician if you feel unwell. Wash contaminated clothing before reuse.

Storage Not applicable.

Disposal Dispose of contents and container in accordance with all local, regional, national and

international regulations.

**Hazards not otherwise** 

classified

None known.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture Mixture

Ingredient name	% by weight	CAS number
2,4,6-tris(dimethylaminomethyl)phenol	1-5	90-72-2
Titanium dioxide	0.1 - 1	13463-67-7

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

# 4. FIRST AID MEASURES

#### Description of necessary first aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is

irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be

kept under medical surveillance for 48 hours.

**Skin contact** Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing

thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean

shoes thoroughly before reuse.

Eye contact Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove

any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

Ingestion Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position

comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention

immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

**Inhalation** Exposure to decomposition products may cause a health hazard.

Serious effects may be delayed following exposure.

**Skin contact** Harmful in contact with skin.

**Eye contact** No known significant effects or critical hazards.

**Ingestion** Harmful if swallowed.



Over-exposure signs/symptoms

InhalationNo specific data.Skin contactNo specific data.Eye contactNo specific data.IngestionNo specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed

person may need to be kept under medical surveillance for 48 hours.

**Specific treatments** No specific treatment.

See toxicological information (Section 11)

# 5. FIRE-FIGHTING MEASURES

**Extinguishing media** 

Suitable extinguishing media Unsuitable extinguishing media Use an extinguishing agent suitable for the surrounding fire.

None known.

Specific hazards arising from the chemical

In a fire or if heated, a pressure increase will occur and the container may burst

**National Fire Protection Association (U.S.A.)** 

Health



**Flammability** 

Instability/Reactivity

**Special** 

Hazardous thermal decomposition products

Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/oxides

Special protective actions for fire-fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.





# 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** 

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

# Methods and materials for containment and cleaning up

Small spill

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations 9see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose some hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.



## 7. HANDLING AND STORAGE

# Conditions for safe storage, including any incompatibilities

Do not store below the following temperature: 35°C (95°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

#### Precautions for safe handling

#### **Protective measures**

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

#### Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control parameters**

#### Occupational exposure limits

Ingredient name	CAS#	Exposure limits
Titanium dioxide	13463-67-7	ACGIH TLV (United States, 3/2012).  TWA: 10 mg/ m³ 8 hours.  OSHA PEL 1989 (United States, 3/1989).  TWA: 10 mg/ m³ 8 hours. Form: Total dust.  OSHA PEL (United States, 6/2010).  TWA: 15 mg/ m³ 8 hours. Form: Total dust.

# Appropriate engineering controls

No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

# Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### **Individual protection measures**

**Hygiene measures** 

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Respiratory protection

Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.



Skin protection Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the

time to breakthrough for any glove material may be different for different glove

manufacturers. In the case of mixtures, consisting of several substances, the protection

time of the gloves cannot be accurately estimated.

Body protection Personal protective equipment for the body should be selected based on the task being

performed and the risks involved and should be approved by a specialist before handling

this product.

Other skin protection Appropriate footwear and any additional skin protection measures should be selected

based on the task being performed and the risks involved and should be approved by a

specialist before handling this product.

**Eye/face protection** Safety eyewear complying with an approved standard should be used when a risk

assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases, or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state Liquid.
Color White.

Odor Pungent. [Strong]
Odor threshold Not available.

pH Not available.

Melting point Not available.

Boiling point Not available.

Flash point Closed cup: >93.3°C (>199.9°F) [Setaflash.] [Product does not sustain combustion.]

**Evaporation rate** Not available.

Flammability (solid, gas) Flammable in the presence of the following materials or conditions: open flames,

sparks and static discharge.

Not available.

Lower and upper explosive

(flammable) limits

Vapor pressureNot available.Vapor densityNot available.

Relative density 1.902

Solubility

Solubility in water

Auto-ignition temperature

Decomposition temperature

Not available.

Not available.

>220°C (>392°F)

Viscosity Not available.

VOC (% content) <1%

## 10. STABILITY AND REACTIVITY

**Reactivity**No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** The product is stable.

Possibility of hazardous

reactions

Under normal conditions of storage and use, hazardous reactions will not occur.



Conditions to avoid No specific data

Incompatible materials No specific data

Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

# 11. TOXICOLOGICAL INFORMATION

## Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
2,4,6-tris	LD50 Dermal	Rat	1280 mg/kg	-
(dimethylaminomethyl)phenol	LD50 Oral	Rat	1200 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2,4,6-tris (dimethylaminomethyl)phenol	Eyes – Severe irritant	Rabbit	-	24 hours 50 Micrograms	-
· , , , , , , , , , , , , , , , , , , ,	Skin – Mild Irritant Skin – Severe irritant Skin – Severe irritant	Rat Rat Rabbit	- - -	0.025 Mililiters 0.25 Mililiters 24 hours 2	-
titanium dioxide	Skin – mild irritant	Human	-	milligrams 72 hours 300 Micrograms Intermittent	-

#### **Sensitization**

No specific data.

#### Mutagenicity

No specific data.

### **Carcinogenicity**

No specific data.

### Classification

Product/ingredient name	OSHA	IARC	NTP
titanium dioxide	-	2B	-

## Reproductive toxicity

No specific data.

#### **Teratogenicity**

No specific data.

#### Specific target organ toxicity (single exposure)

No specific data.

#### Specific target organ toxicity (repeated exposure)

No specific data.

#### **Aspiration hazard**

No specific data.

Information on the likely routes of exposure

Not available.

Potential acute health effects



**Eye contact** No known significant effects or critical hazards.

**Inhalation** Exposure to decomposition products may cause a health hazard.

Serious effects may be delayed following exposure.

**Skin contact** Harmful in contact with skin.

**Ingestion** Harmful if swallowed.

#### Symptoms related to the physical, chemical and toxicological characteristics

Eye contactNo specific data.InhalationNo specific data.Skin contactNo specific data.IngestionNo specific data.

#### Delayed and immediate effects and also chronic effects from short and long term exposure

#### **Short term exposure**

Potential immediate effects Not available.

Potential delayed effects Not available.

**Long term exposure** 

Potential immediate effects Not available.

Potential delayed effects Not available.

Potential chronic health effects No specific data.

GeneralNo known significant effects or critical hazards.CarcinogenicityNo known significant effects or critical hazards.MutagenicityNo known significant effects or critical hazards.TeratogenicityNo known significant effects or critical hazards.Developmental effectsNo known significant effects or critical hazards.Fertility effectsNo known significant effects or critical hazards.

#### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

Route	ATE value			
Oral	1507.9 mg/kg			
Dermal	1608.5 mg/kg			
12. ECOLOGICAL INFORMATION				

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
Titanium dioxide	Acute LC50 1000000µg/l Marine water	Fish – Fundulus heteroclitus	96 hours

#### Persistence and degradability

No specific data.

#### **Bioaccumulative potential**

\_\_\_\_\_



Product/ingredient name	LogPow	BCF	Potential
2,4,6-tris 9dimethylaminomethyl) phenol	0.219	-	low
titanium dioxide	-	352	low

#### Mobility in soil

Soil/water partition coefficient (Koc) Not available.

Other adverse effects No known significant effects or critical hazards.

# 13. DISPOSAL CONSIDERATIONS

#### **Disposal methods**

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

#### **RCRA** classification

Not available.

14. TRANSPORT INFORMATION						
	DOT Classification	TDG Classification	Mexico Classification	IMDG	IATA	
UN Number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.	
UN proper shipping name	-	-	-	-	-	
Transport hazard class(es)	-	-	-	-	-	
Packing group	-	-	-	-	-	
Environmental hazards	No.	No.	No.	No.	No.	
Additional information	-	-	-	-	-	

## Special precautions for user

**Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.





# 15. REGULATORY INFORMATION

U.S. Federal regulations TSCA 8(a) PAIR: Siloxanes and Silicones, di-Me, reaction products with silica

TSCA 9(a) CDR Exempt/partial exemption: Not determined

United States Inventory (TSCA 8b): All components are listed or exempted.

Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs) Not listed

Clean Air Act Section 602 Class I Substances Not listed

Clean Air Act Section 602 Class II Substances Not listed

**SARA 302/304** 

Composition/information on ingredients No products were found.

SARA 304 RQ Not applicable

**SARA 311/312** 

Classification Immediate (acute) health hazard

#### **Composition / information on ingredients**

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
2,4,6-tris (dimethylaminomethyl)phenol	1-5	No.	No.	No.	Yes.	No.
titanium dioxide	0.1-1	No.	No.	No.	No.	Yes

#### **State regulations**

Massachusetts The following components are listed: BARIUM SULFATE; CALCIUM CARBONATE

**New York** None of the components are listed.

New Jersey The following components are listed: BARIUM SULFATE; SULFURIC ACID; BARIUM SALT

(1:1); CALCIUM CARBONATE; LIMESTONE; TITANIUM DIOXIDE; TITANIUM OXIDE (TiO2)

Pennsylvania The following components are listed: BARIUM SULFATE; LIMESTONE; TITANIUM OXIDE

(TiO2)

Minnesota Hazardous Substances None of the components are listed.

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

Ingredient Name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
titanium dioxide	Yes.	No.	No.	No.
crystalline silica non-respirable	Yes.	No.	No.	No.

Canada inventory
International regulations
International lists

All components are listed or exempted.

**Australia inventory (AICS):** All components are listed or exempted. **China inventory (IECSC):** All components are listed or exempted.



Japan inventory: All components are listed or exempted. Korea inventory: All components are listed or exempted. Malaysia Inventory (EHS Register): Not determined.

New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.

Phillipines inventory (PICCS): All components are listed or exempted.

Taiwan inventory (CSNN): Not determined.

Substances of very high concern

None of the components are listed.

# 16. OTHER INFORMATION

**Key to abbreviations** ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

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