

### Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: Date of issue:

Version: 5.0 02/20/2020 05/29/2014

# **SECTION 1: Identification**

#### 1.1. Product identifier

Product form Mixture

Product name R-2180-2 Part A Silicone Dispersion Synonyms

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture For professional use only.

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

NuSil Technology LLC 1050 Cindy Lane

Carpinteria, California 93013

USA

(805) 684-8780 ehs@nusil.com www.nusil.com

#### 1.4. Emergency telephone number

Emergency : 800-424-9300 CHEMTREC (in US); +1 703-527-3887 CHEMTREC (International

number and Maritime)

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture **GHS-US** classification

Flam. Lia. 3 H226 Acute Tox. 4 (Dermal) H312 Acute Tox. 4 (Inhalation:vapor) H332 Skin Irrit. 2 H315 Eye Irrit. 2A H319 STOT SE 3 H336 Asp. Tox. 1 H304 Aquatic Acute 2 H401 Full text of H-phrases: see section 16

#### 2.2. Label elements

#### **GHS-US labeling**

Hazard pictograms (GHS-US)







Signal word (GHS-US) Danger

Hazard statements (GHS-US) H226 - Flammable liquid and vapor

> H304 - May be fatal if swallowed and enters airways H312+H332 - Harmful in contact with skin or if inhaled

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H336 - May cause drowsiness or dizziness

H401 - Toxic to aquatic life

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Precautionary state	ments
(GHS-US)	

P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking.

P233 - Keep container tightly closed.

P240 - Ground/bond container and receiving equipment.

P241 - Use explosion-proof electrical, lighting, ventilating equipment.

P242 - Use only non-sparking tools.

P243 - Take precautionary measures against static discharge.

P261 - Avoid breathing vapors, mist, spray.

P264 - Wash hands, forearms, and exposed areas thoroughly after handling.

P271 - Use only outdoors or in a well-ventilated area.

P273 - Avoid release to the environment.

P280 - Wear eye protection, protective clothing, protective gloves.

P301+P310 - If swallowed: Immediately call a poison center or doctor.

P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 - If inhaled: Remove person to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 - Call a poison center or doctor if you feel unwell.

P321 - Specific treatment (see Section 4 on this SDS).

P331 - Do NOT induce vomiting.

P332+P313 - If skin irritation occurs: Get medical advice/attention.

P337+P313 - If eye irritation persists: Get medical advice/attention.

P362+P364 - Take off contaminated clothing and wash it before reuse.

P370+P378 - In case of fire: Use dry chemical powder, alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>) to extinguish.

P403+P233+P235 - Store in a well-ventilated place. Keep container tightly closed. Keep cool.

P405 - Store locked up.

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

#### 2.3. Other hazards

Other hazards not contributing to the classification

Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

#### 2.4. Unknown acute toxicity (GHS US)

No data available

# **SECTION 3: Composition/Information on ingredients**

#### 3.1. Substance

Not applicable

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#### 3.2. Mixture

Name	Product identifier	%	GHS-US classification
Xylenes (o-, m-, p-	(CAS No) 1330-20-7	70 - 90	Flam. Liq. 3, H226
isomers)			Acute Tox. 4 (Dermal), H312
			Acute Tox. 4 (Inhalation:vapor),
			H332
			Skin Irrit. 2, H315
			Eye Irrit. 2A, H319
			STOT SE 3, H336
			Asp. Tox. 1, H304
			Aquatic Acute 2, H401
Silanamine, 1,1,1-	(CAS No) 68909-20-6	<10	Not classified
trimethyl-N-(trimethylsilyl)-,			
hydrolysis products with			
silica			

Full text of H-phrases: see section 16

# **SECTION 4: First aid measures**

4.1. Description of first aid measures		
First-aid measures general	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).	
First-aid measures after inhalation	Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.	
First-aid measures after skin contact	Remove contaminated clothing. Gently wash with plenty of soap and water followed by rinsing with water for at least 15 minutes. Call a POISON CENTER or doctor/physician if you feel unwell. Wash contaminated clothing before reuse.	
First-aid measures after eye contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.	
First-aid measures after ingestion	Do not induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.	
	s and effects, both acute and delayed	
Symptoms/injuries	May be fatal if swallowed and enters airways. Harmful if inhaled. Harmful in contact with skin. Causes skin irritation. Causes serious eye irritation. May cause drowsiness and dizziness.	
Symptoms/injuries after inhalation	Excessive exposure may cause central nervous system effects may include headache, dizziness, loss of balance and coordination, unconsciousness, coma, respiratory failure, and death.	
Symptoms/injuries after skin contact	Redness, pain, swelling, itching, burning, dryness, and dermatitis. This material is harmful through skin contact, and can cause adverse health effects or death in significant amounts. This material may be absorbed through the skin and eyes.	
Symptoms/injuries after eye contact	Redness, pain, swelling, itching, burning, tearing, and blurred vision.	

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Symptoms/injuries after Aspiration into the lungs can occur during ingestion or

ingestion vomiting and may cause lung injury.

Chronic symptoms Repeated or prolonged skin contact may cause dermatitis

and defatting.

#### 4.3. Indication of any immediate medical attention and special treatment needed

If you feel unwell, seek medical advice (show the label where possible).

### **SECTION 5: Fire-Fighting measures**

5.1. Extinguishing media

Suitable extinguishing media Alcohol-resistant foam, dry chemical, carbon dioxide, water

spray, fog.

Unsuitable extinguishing media Do not use a heavy water stream. Use of heavy stream of

water may spread fire. Application of water stream to hot product may cause frothing and increase fire intensity.

5.2. Special hazards arising from the substance or mixture

Fire hazard Flammable liquid and vapor.

Explosion hazard May form flammable/explosive vapor-air mixture.

Reactivity Flammable liquid and vapor.

5.3. Advice for firefighters

Precautionary measures fire Exercise caution when fighting any chemical fire. Under fire

conditions, hazardous fumes will be present.

Prevent fire-fighting water from entering environment.

Protection during firefighting Do not enter fire area without proper protective equipment,

including respiratory protection.

Other information Will decompose above 150 °C (> 300 °F) releasing

formaldehyde vapors.

#### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures Keep away from heat, sparks, open flames, hot surfaces. – No

smoking. Use special care to avoid static electric charges. Do not get in eyes, on skin, or on clothing. Do NOT breathe (vapor, mist, spray). Do not allow product to spread into the

environment.

6.1.1. For non-emergency personnel

Protective equipment Use appropriate personal protection equipment (PPE).

Emergency procedures Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment Equip cleanup crew with proper protection.

Emergency procedures Upon arrival at the scene, a first responder is expected to

recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of

trained personnel as soon as conditions permit.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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#### 6.3. Methods and material for containment and cleaning up

For containment Contain any spills with dikes or absorbents to prevent

migration and entry into sewers or streams.

Methods for cleaning up Clean up spills immediately and dispose of waste safely. Spills

should be contained with mechanical barriers. Transfer spilled material to a suitable container for disposal. Do not take up in combustible material such as: saw dust or cellulosic material.

Contact competent authorities after a spill.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Additional hazards when When heated, material emits irritating fumes. Any proposed

processed use of this product in elevated-temperature processes should

be thoroughly evaluated to assure that safe operating conditions are established and maintained. Handle empty containers with care because residual vapors are flammable.

Precautions for safe handling Take precautionary measures against static discharge. Use

only non-sparking tools. Keep away from heat, sparks, open

flames, hot surfaces. - No smoking.

Hygiene measures Handle in accordance with good industrial hygiene and

safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Do not eat, drink or smoke when

using this product.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures Proper grounding procedures to avoid static electricity should

be followed. Use explosion-proof electrical, lighting, ventilating

equipment.

Storage conditions Keep in fireproof place. Keep container tightly closed. Store in

a dry, cool and well-ventilated place.

Incompatible products Strong bases. Strong acids. Strong oxidizers.

#### 7.3. Specific end use(s)

For dip casting of thin elastomeric films. For professional use only.

# SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), or OSHA (PEL).

Xylenes (o-, n	n-, p- isomers) (1330-20-7)	
USA ACGIH	ACGIH TWA (ppm)	100 ppm
USA ACGIH	ACGIH STEL (ppm)	150 ppm
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA ACGIH	Biological Exposure Indices (BEI)	1.5 g/g Kreatinin (Medium: urine - Time: end
		of shift - Parameter: Methylhippuric acids)

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USA OSHA	OSHA PEL (TWA) (mg/m³)	435 mg/m³
USA OSHA	OSHA PEL (TWA) (ppm)	100 ppm
Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica (68909-20-6)		
USA OSHA	OSHA PEL (TWA) (mg/m³)	6 mg/m³
USA OSHA	OSHA PEL (TWA) (ppm)	20 mppcf (80mg/m³/%SiO <sub>2</sub> )

#### 8.2. Exposure controls

Appropriate engineering Emergency eye wash fountains and safety showers should be controls available in the immediate vicinity of any potential exposure.

Ensure adequate ventilation, especially in confined areas.
Gas detectors should be used when flammable gases/vapors may be released. Proper grounding procedures to avoid static electricity should be followed. Ensure all national/local

regulations are observed.

Personal protective Gloves. Protective clothing. Protective goggles. Insufficient

equipment ventilation: wear respiratory protection.







Materials for protective Chemically resistant materials and fabrics.

clothing

Hand protection Wear chemically resistant protective gloves.

Eye protection Chemical safety goggles.

Skin and body protection Wear suitable protective clothing. Wash contaminated

clothing before reuse.

Respiratory protection If exposure limits are exceeded or irritation is experienced,

approved respiratory protection should be worn. Do not allow the product to be released into the

Environmental exposure Do not allow

controls environment.

Other information When using, do not eat, drink or smoke.

# **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Colorless
Odor : Solvent

Odor threshold : No data available pH : No data available Relative evaporation rate (butyl : No data available

acetate=1)

Melting point : No data available Freezing point : No data available Boiling point : 140 °C (284 °F) Flash point : 27 °C (80 °F)

Auto-ignition Temperature : No data available Decomposition temperature : No data available Flammability (solid, gas) : No data available Vapor pressure : No data available Relative vapor density at 20 °C : No data available

Specific Gravity : <1

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Solubility : No data available Partition coefficient: n- : No data available

octanol/water

Viscosity : No data available

9.2. Other information

VOC content 70 - 90 %

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Flammable liquid and vapor.

#### 10.2. Chemical stability

May form flammable/explosive vapor-air mixture.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

#### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.

#### 10.5. Incompatible materials

Strong acid. Strong bases. Strong oxidizers.

#### 10.6. Hazardous decomposition products

Silicon oxides. Carbon oxides (CO, CO<sub>2</sub>). Will decompose above 150 °C (> 300 °F) releasing formaldehyde vapors. Formaldehyde is a potential carcinogen and can act as a potential skin and respiratory sensitizer. Formaldehyde can also cause respiratory and eye irritation.

# **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity

Dermal: Harmful in contact with skin. Inhalation:vapour:
Harmful if inhaled.

R-2180-2 Part A		
ATE (Dermal)	1,699.10 mg/kg body weight	
ATE (Vapors)	16.99 mg/l/4h	
Xylenes (o-, m-, p- isomers) (1330-20-7)		
LD50 oral rat	> 5000 mg/kg	
LC50 inhalation rat (ppm)	6247 ppm/4h (species: Sprague-Dawley)	
ATE (Dermal)	1,100.00 mg/kg body weight	
ATE (Vapors)	11.00 mg/l/4h	

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation Causes serious eye irritation.

Respiratory or skin sensitization

Germ cell mutagenicity

Not classified

Not classified

Not classified

Not classified

Xylenes (o-, m-, p- isomers) (1330-2	20-7)
IARC group	3

Reproductive toxicity : Not classified

Specific target organ toxicity (single : May cause drowsiness or dizziness.

exposure)

Specific target organ toxicity (repeated : Not classified

exposure)

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Aspiration hazard	May be fatal if swallowed and enters airways.
Symptoms/injuries after inhalation	Excessive exposure may cause central nervous system effects may include headache, dizziness, loss of balance and
madnon	coordination, unconsciousness, coma, respiratory failure, and death.
Symptoms/injuries after skin contact	Redness, pain, swelling, itching, burning, dryness, and dermatitis. This material is harmful through skin contact, and can cause adverse health effects or death in significant amounts. This material may be absorbed through the skin and eyes.
Symptoms/injuries after eye contact	Redness, pain, swelling, itching, burning, tearing, and blurred vision.
Symptoms/injuries after ingestion	Aspiration into the lungs can occur during ingestion or vomiting and may cause lung injury.
Chronic symptoms	Repeated or prolonged skin contact may cause dermatitis and defatting.

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

Ecology - general Toxic to aquatic life.

Xylenes (o-, m-, p- isomers) (1330-20-7)		
LC50 fish 1	3.3 mg/l	
EC50 Daphnia 1	3.82 mg/l (Exposure time: 48 h - Species: water flea)	
LC50 fish 2	2.661 (2.661 - 4.093) mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss	
	[static])	

#### 12.2. Persistence and degradability

R-2180-2 Part A	
Persistence and degradability	Not established.

### 12.3. Bioaccumulative potential

12:0:3:04000:::014::0	
R-2180-2 Part A	
Bioaccumulative potential	Not established.
Xylenes (o-, m-, p- isomers) (1330-20-7)	
BCF fish 1	0.6 (0.6 - 15)
Log Pow	2.77 - 3.15

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

Other information Avoid release to the environment.

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Waste disposal Dispose of waste material in accordance with all local,

recommendations regional, national, and international regulations.

Additional information Handle empty containers with care because residual vapors

are flammable.

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# **SECTION 14: Transport information**

In accordance with DOT / IMDG / IATA

14.1.UN number

UN-No.(DOT) 1307 DOT NA no. UN1307

14.2. UN proper shipping name

Proper Shipping Name (DOT)

Transport hazard class(es)

(DOT)

Xylenes Solution
3 - Class 3 - Flamn

3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Hazard labels (DOT) 3 - Flammable liquid

3

Packing group (DOT)

DOT Special Provisions (49 CFR

172.102)

III - Minor Danger

B1 - If the material has a flash point at or above 38 C (100 F)

and below 93 C (200 F), then the bulk packaging

requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are

applicable.

IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).

T2 - 1.5 178.274(d)(2) Normal...... 178.275(d)(3)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / (1 + a (tr - tf)) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in

degrees celsius of the liquid during filling.

DOT Packaging Exceptions (49

CFR 173.xxx)

150

DOT Packaging Non Bulk (49

CFR 173.xxx)

DOT Packaging Bulk (49 CFR

173.xxx)

203

242

14.3. Additional information

Emergency Response Guide

130

(ERG) Number

Other information No supplementary information available.

Transport by sea

DOT Vessel Stowage Location A - The material may be stowed "on deck" or "under deck"

on a cargo vessel and on a passenger vessel.

EmS-No. (1) F-E MFAG-No 130 EmS-No. (2) S-D

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Air transport

DOT Quantity Limitations 60 L

Passenger aircraft/rail (49 CFR

173.27)

DOT Quantity Limitations 220 L

Cargo aircraft only (49 CFR

175.75)

# **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

All components of this product are listed or exempted from being listed on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

D 0100 0 D A		
R-2180-2 Part A		
SARA Section 311/312 Hazard Classes	Fire hazard	
·	Immediate (acute) health hazard	
Xylenes (o-, m-, p- isomers) (1330-20-7)		
Subject to reporting requirements of United States SARA Section 313		
CERCLA RQ	100 lb	
SARA Section 313 - Emission Reporting	1.0 %	

#### 15.2. US State regulations

Xylenes (o-, m-, p- isomers) (1330-20-7)	
U.S California - Proposition 65 - Carcinogens List	WARNING: This product contains chemicals known
	to the State of California to cause cancer.

#### Xylenes (o-, m-, p- isomers) (1330-20-7)

- U.S. California SCAQMD Toxic Air Contaminants Non-Cancer Acute
- U.S. California SCAQMD Toxic Air Contaminants Non-Cancer Chronic
- U.S. California Toxic Air Contaminant List (AB 1807, AB 2728)
- U.S. Colorado Groundwater Quality Standards
- U.S. Colorado Hazardous Wastes Discarded Chemical Products, Off-Specification Species, Container and Spill Residues
- U.S. Colorado Primary Drinking Water Regulations Maximum Contaminant Level Goals (MCLGs)
- U.S. Colorado Primary Drinking Water Regulations Maximum Contaminant Levels (MCLs)
- U.S. Connecticut Drinking Water Quality Standards Maximum Contaminant Levels
- U.S. Delaware Pollutant Discharge Requirements Reportable Quantities
- U.S. Florida Drinking Water Standards Volatile Organic Contaminants Maximum Contaminant Levels (MCLs)
- U.S. Georgia Drinking Water Maximum Contaminant Levels (MCLs)
- U.S. Idaho Non-Carcinogenic Toxic Air Pollutants Acceptable Ambient Concentrations
- U.S. Idaho Non-Carcinogenic Toxic Air Pollutants Emission Levels (ELs)
- U.S. Idaho Occupational Exposure Limits TWAs
- U.S. Illinois Toxic Air Contaminants
- U.S. Louisiana Reportable Quantity List for Pollutants
- U.S. Maine Air Pollutants Hazardous Air Pollutants
- U.S. Massachusetts Allowable Ambient Limits (AALs)
- U.S. Massachusetts Allowable Threshold Concentrations (ATCs)
- U.S. Massachusetts Drinking Water Maximum Contaminant Levels (MCLs)
- U.S. Massachusetts Oil & Hazardous Material List Groundwater Reportable Concentration Reporting Category 1
- U.S. Massachusetts Oil & Hazardous Material List Groundwater Reportable Concentration Reporting Category 2
- U.S. Massachusetts Oil & Hazardous Material List Reportable Quantity
- U.S. Massachusetts Oil & Hazardous Material List Soil Reportable Concentration Reporting Category 1

U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2

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- RTK U.S. Massachusetts Right To Know List
- U.S. Massachusetts Threshold Effects Exposure Limits (TELs)
- U.S. Massachusetts Toxics Use Reduction Act
- U.S. Michigan Occupational Exposure Limits STELs
- U.S. Michigan Occupational Exposure Limits TWAs
- U.S. Michigan Polluting Materials List
- U.S. Minnesota Chemicals of High Concern
- U.S. Minnesota Groundwater Health Risk Limits
- U.S. Minnesota Hazardous Substance List
- U.S. Minnesota Permissible Exposure Limits STELs
- U.S. Minnesota Permissible Exposure Limits TWAs
- U.S. Missouri Drinking Water Maximum Contaminant Levels (MCLs)
- U.S. Nebraska Drinking Water Maximum Contaminant Levels (MCLs)
- U.S. New Hampshire Drinking Water Maximum Contaminant Levels (MCLs)
- U.S. New Hampshire Regulated Toxic Air Pollutants Ambient Air Levels (AALs) 24-Hour
- U.S. New Hampshire Regulated Toxic Air Pollutants Ambient Air Levels (AALs) Annual
- U.S. New Jersey Discharge Prevention List of Hazardous Substances
- U.S. New Jersey Environmental Hazardous Substances List
- U.S. New Jersey Primary Drinking Water Standards Maximum Contaminant Levels MCLs
- RTK U.S. New Jersey Right to Know Hazardous Substance List
- U.S. New Jersey Special Health Hazards Substances List
- U.S. New Jersey Water Quality Ground Water Quality Criteria
- U.S. New Jersey Water Quality Practical Quantitation Levels (PQLs)
- U.S. New Mexico Water Quality Standards for Ground Water of 10,000 ma/L TDS Concentration or Less
- U.S. New York Occupational Exposure Limits TWAs
- U.S. New York Reporting of Releases Part 597 List of Hazardous Substances
- U.S. North Carolina Control of Toxic Air Pollutants
- U.S. North Dakota Air Pollutants Guideline Concentrations 1-Hour
- U.S. North Dakota Air Pollutants Guideline Concentrations 8-Hour
- U.S. North Dakota Hazardous Wastes Discarded Chemical Products, Off-Specification Species,
- Container and Spill Residues
- U.S. North Dakota Water Quality Standards Human Health Value for Classes I, IA, II
- U.S. Oregon Permissible Exposure Limits TWAs
- U.S. California Safer Consumer Products Initial List of Candidate Chemicals and Chemical Groups
- U.S. Pennsylvania Drinking Water Maximum Contaminant Levels (MCLs)
- RTK U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- RTK U.S. Pennsylvania RTK (Right to Know) List
- U.S. Rhode Island Air Toxics Acceptable Ambient Levels 1-Hour
- U.S. Rhode Island Air Toxics Acceptable Ambient Levels 24-Hour
- U.S. Rhode Island Air Toxics Acceptable Ambient Levels Annual
- U.S. Rhode Island Water Quality Standards Acute Freshwater Aquatic Life Criteria
- U.S. Rhode Island Water Quality Standards Chronic Freshwater Aquatic Life Criteria
- U.S. South Carolina Maximum Contaminant Levels (MCLs)
- U.S. South Carolina Toxic Air Pollutants Maximum Allowable Concentrations
- U.S. South Carolina Toxic Air Pollutants Pollutant Categories
- U.S. Tennessee Occupational Exposure Limits STELs
- U.S. Tennessee Occupational Exposure Limits TWAs
- U.S. Texas City of Austin Aerosol Paint and Glue Restrictions
- U.S. Texas Drinking Water Standards Maximum Contaminant Levels (MCLs)
- U.S. Texas Effects Screening Levels Long Term
- U.S. Texas Effects Screening Levels Short Term
- U.S. Utah Drinking Water Maximum Contaminant Levels (MCLs)
- U.S. Washington Dangerous Waste Discarded Chemical Products List
- U.S. Washington Permissible Exposure Limits STELs
- U.S. Washington Permissible Exposure Limits TWAs
- U.S. West Virginia Water Quality Groundwater Standards Ceiling Concentrations
- U.S. Wisconsin Hazardous Air Contaminants All Sources Emissions From Stack Heights 25 Feet to Less

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Than 40 Feet

U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 40 Feet to Less Than 75 Feet

U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 75 Feet or Greater

U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights Less Than 25 Feet

#### Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica (68909-20-6)

U.S. - Texas - Effects Screening Levels - Long Term

U.S. - Texas - Effects Screening Levels - Short Term

# SECTION 16: Other information, including date of preparation or last revision

Revision date 02/20/2020

Other information This document has been prepared in accordance with the

SDS requirements of the OSHA Hazard Communication

Standard 29 CFR 1910.1200.

#### Full text of H-phrases:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation:vapor)	Acute toxicity (inhalation:vapor) Category 4
Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2
Asp. Tox. 1	Aspiration hazard Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 3	Flammable liquids Category 3
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H226	Flammable liquid and vapor
H304	May be fatal if swallowed and enters airways
H312	Harmful in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled
H336	May cause drowsiness or dizziness
H401	Toxic to aquatic life

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NFPA health hazard 2 - Intense or continued exposure could

cause temporary incapacitation or possible residual injury unless prompt

medical attention is given.

NFPA fire hazard 3 - Liquids and solids that can be ignited

under almost all ambient conditions.

0 - Normally stable, even under fire

exposure conditions, and are not reactive

xposore conditions, and are norrea

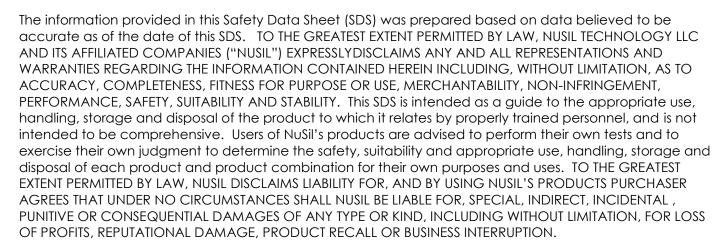
with water.

HMIS III Rating

NFPA reactivity

Health 2 Moderate Hazard - Temporary or minor injury may occur

Flammability 3 Serious Hazard
Physical 0 Minimal Hazard



Nusil US GHS SDS

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Version: 3.0

#### **SECTION 1: Identification**

#### 1.1. Product identifier

Product form Mixture

Product name R-2180-2 Part B Synonyms Silicone Dispersion

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture For professional use only.

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

NuSil Technology LLC 1050 Cindy Lane

Carpinteria, California 93013

**USA** 

(805) 684-8780 ehs@nusil.com www.nusil.com

#### 1.4. Emergency telephone number

Emergency: 800-424-9300 CHEMTREC (in US); +1 703-527-3887 CHEMTREC (International

number and Maritime)

### **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

#### **GHS-US** classification

H226 Flam. Liq. 3 Acute Tox. 4 (Dermal) H312 Acute Tox. 4 (Inhalation:vapor) H332 Skin Irrit. 2 H315 Eye Irrit. 2A H319 STOT SE 3 H336 Asp. Tox. 1 H304 Aquatic Acute 2 H401 Full text of H-phrases: see section 16

#### 2.2. Label elements

#### **GHS-US** labeling

Hazard pictograms (GHS-US)







Signal word (GHS-US)

Danger

Hazard statements (GHS-US) H226 - Flammable liquid and vapor

H304 - May be fatal if swallowed and enters airways H312+H332 - Harmful in contact with skin or if inhaled

H315 - Causes skin irritation

H319 - Causes serious eye irritation H336 - May cause drowsiness or dizziness

H401 - Toxic to aquatic life

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Precautionary statements
(GHS-US)

P210 - Keep away from heat, sparks, open flames, hot surfaces. - No smoking.

P233 - Keep container tightly closed.

P240 - Ground/bond container and receiving equipment.

P241 - Use explosion-proof electrical, lighting, ventilating equipment.

P242 - Use only non-sparking tools.

P243 - Take precautionary measures against static discharge.

P261 - Avoid breathing fume, mist, spray, vapors.

P264 - Wash hands, forearms, and exposed areas thoroughly after handling.

P271 - Use only outdoors or in a well-ventilated area.

P273 - Avoid release to the environment.

P280 - Wear eye protection, face protection, protective clothing, protective gloves.

P301+P310 - If swallowed: Immediately call a poison center or doctor.

P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 - If inhaled: Remove person to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 - Call a poison center or doctor if you feel unwell.

P321 - Specific treatment (see Section 4 on this SDS).

P331 - Do NOT induce vomiting.

P332+P313 - If skin irritation occurs: Get medical advice/attention.

P337+P313 - If eye irritation persists: Get medical advice/attention.

P362+P364 - Take off contaminated clothing and wash it before reuse.

P370+P378 - In case of fire: Use appropriate media to extinauish.

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P235+P405 - Keep cool. Store locked up.

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

#### 2.3. Other hazards

Other hazards not contributing to the classification

Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

### 2.4. Unknown acute toxicity (GHS US)

No data available

# **SECTION 3: Composition/Information on ingredients**

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

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Name	Product identifier	%	GHS-US classification
Xylenes (o-, m-, p- isomers)	(CAS No) 1330-20-7	60 - 80	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:vapor), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 2, H401
Silanamine, 1,1,1-trimethyl- N-(trimethylsilyl) -, hydrolysis products with silica	(CAS No) 68909-20-6	< 10	Not classified
Siloxanes and Silicones, dimethyl, methyl hydrogen	(CAS No) 68037-59-2	< 5	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Carbon black	(CAS No) 1333-86-4	< 3	Not classified
3-Butyn-2-ol, 2-methyl-	(CAS-No.) 115-19-5	< 1	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318

Full text of H-phrases: see section 16

# **SECTION 4: First aid measures**

4.1. Description of first aid me	easures
First-aid measures general	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after	Remove to fresh air and keep at rest in a position comfortable
inhalation	for breathing. Call a POISON CENTER or doctor/physician.
First-aid measures after skin	Remove contaminated clothing. Drench affected area with
contact	water for at least 15 minutes. Get medical advice/attention.
	Wash contaminated clothing before reuse.
First-aid measures after eye	Rinse cautiously with water for at least 15 minutes. Remove
contact	contact lenses, if present and easy to do. Continue rinsing.
	Obtain medical attention.
First-aid measures after	Rinse mouth. DO NOT INDUCE VOMITING. Do not give liquids.
ingestion	Obtain immediate medical attention. If spontaneous vomiting
G	occurs, lean victim forward to reduce the risk of aspiration.
	Small amounts of material which enter the mouth should be
	rinsed out until the taste is dissipated.
40 44 - 41	

4.2. Most important symptom	rinsed out until the taste is dissipated.  as and effects, both acute and delayed
Symptoms/injuries	Aspiration hazard. May be fatal if swallowed and enters airways. Causes serious eye irritation. Causes skin irritation. May cause drowsiness and dizziness. Narcotic effect. Harmful in contact with skin or if inhaled.
Symptoms/injuries after inhalation	May cause drowsiness or dizziness. Harmful if inhaled.
Symptoms/injuries after skin contact	Causes skin irritation. Harmful in contact with skin.
Symptoms/injuries after eye contact	Causes serious eye irritation.

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Symptoms/injuries after

ingestion

May be fatal if swallowed and enters airways.

Chronic symptoms None expected under normal conditions of use.

# 4.3. Indication of any immediate medical attention and special treatment needed

If you feel unwell, seek medical advice (show the label where possible).

# **SECTION 5: Fire-Fighting measures**

5.1. Extinguishing media

Suitable extinguishing media Alcohol foam, carbon dioxide, dry chemical.

Unsuitable extinguishing media Do not use a heavy water stream. A heavy water stream may

spread burning liquid. Application of water stream to hot product may cause frothing and increase fire intensity.

5.2. Special hazards arising from the substance or mixture

Fire hazard Flammable liquid and vapor.

Explosion hazard May form flammable/explosive vapor-air mixture.

Reactivity Reacts with (strong) oxidizers: (increased) risk of fire.

5.3. Advice for firefighters

Precautionary measures fire Exercise caution when fighting any chemical fire.

Firefighting instructions Do not breath fumes from fires or vapors from decomposition.

In case of major fire and large quantities: Evacuate area. Fight

fire remotely due to the risk of explosion.

Protection during firefighting Do not enter fire area without proper protective equipment,

including respiratory protection.

Other information Will decompose above 150 °C (> 300 °F) releasing

formaldehyde vapors. May produce explosive hydrogen gas

on contact with incompatibilities or upon thermal

decomposition.

#### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures Use special care to avoid static electric charges. Keep away

from heat, sparks, open flames, hot surfaces. – No smoking. Avoid breathing (dust, vapor, mist, gas). Use only outdoors or in a well-ventilated area. Handle in accordance with good

industrial hygiene and safety practice.

6.1.1. For non-emergency personnel

Emergency procedures Evacuate unnecessary personnel.

**6.1.2.** For emergency responders

Protective equipment Use appropriate personal protection equipment (PPE).

Emergency procedures Stop leak if safe to do so. Eliminate ignition sources. Ventilate

area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

#### 6.3. Methods and material for containment and cleaning up

For containment Contain any spills with dikes or absorbents to prevent

migration and entry into sewers or streams.

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Methods for cleaning up Clean up spills immediately and dispose of waste safely.

Absorb and/or contain spill with inert material, then place in suitable container. Do not take up in combustible material such as: saw dust or cellulosic material. Dispose in a safe manner in accordance with local/national regulations.

Contact competent authorities after a spill.

### 6.4. Reference to other sections

See heading 8, Exposure Controls and Personal Protection.

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Additional hazards when Handle empty containers with care because residual vapors

processed are flammable.

Precautions for safe handling Take precautionary measures against static discharge. Use

only non-sparking tools. Keep away from heat, sparks, open flames, hot surfaces. – No smoking. Avoid breathing fumes.

Use only outdoors or in a well-ventilated area. Wear recommended personal protective equipment.

Hygiene measures Handle in accordance with good industrial hygiene and

safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and

again when leaving work.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures Ground/bond container and receiving equipment. Use

explosion-proof electrical, lighting, ventilating equipment.

Storage conditions Store locked up. Store in a dry, cool and well-ventilated place.

Keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials., Heat sources., Keep away from heat,

sparks and flame. Keep in fireproof place.

Incompatible products Strong acids. Strong bases. Strong oxidizers.

#### 7.3. Specific end use(s)

For professional use only. For dip casting and heat curing of thin elastomeric films.

# SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), or OSHA (PEL).

Xylenes (o-, m	Xylenes (o-, m-, p- isomers) (1330-20-7)		
USA ACGIH	ACGIH TWA (ppm)	100 ppm	
USA ACGIH	ACGIH STEL (ppm)	150 ppm	
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen	
USA ACGIH	Biological Exposure Indices (BEI)	1.5 g/g Kreatinin (Medium: urine - Time: end of shift - Parameter: Methylhippuric acids)	
USA OSHA	OSHA PEL (TWA) (mg/m³)	435 mg/m³	
USA OSHA	OSHA PEL (TWA) (ppm)	100 ppm	

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Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica (68909-20-6)			
USA OSHA	OSHA PEL (TWA) (mg/m³)	6 mg/m³	
USA OSHA	OSHA PEL (TWA) (ppm)	20 mppcf (80mg/m³/%SiO <sub>2</sub> )	

Carbon black (1333-86-4)		
USA ACGIH	ACGIH TWA (mg/m³)	3 mg/m³ (inhalable fraction)
USA ACGIH	ACGIH chemical category	Confirmed Animal Carcinogen with
		Unknown Relevance to Humans
USA OSHA	OSHA PEL (TWA) (mg/m³)	3.5 mg/m³

#### 8.2. Exposure controls

Proper grounding procedures to avoid static electricity should Appropriate engineering

controls be followed. Use explosion-proof equipment. Take

precautionary measures against static discharges. Gas detectors should be used when flammable gases/vapors may

be released. Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are

observed.

Personal protective Protective goggles. Gloves. Full protective flameproof

clothing. Insufficient ventilation: wear respiratory protection. equipment









Materials for protective

clothing

Hand protection

Eye protection

Skin and body protection

Chemically resistant materials and fabrics. Wear fire/flame

resistant/retardant clothina.

Wear chemically resistant protective gloves.

Chemical safety goggles.

Wear suitable protective clothing.

Respiratory protection Use a NIOSH-approved respirator or self-contained breathing

apparatus whenever exposure may exceed established

Occupational Exposure Limits.

Do not eat, drink or smoke during use. Consumer exposure controls

# **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid **Appearance** : Black Odor : Solvent

Odor threshold : No data available : No data available рН **Evaporation Rate** : No data available Melting point : No data available Freezing point : No data available

: 140 °C (284 °F Boiling point : 27 °C (80 °F) Flash point

: No data available **Auto-ignition Temperature** Decomposition temperature : No data available Flammability (solid, gas) : No data available

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Vapor pressure : No data available Relative vapor density at 20 °C : No data available

Specific Gravity : <1

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

9.2. Other information

VOC content 70 - 90 %

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Reacts with (strong) oxidizers: (increased) risk of fire.

#### 10.2. Chemical stability

Flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

#### 10.4. Conditions to avoid

Direct sunlight, extremely high or low temperatures, open flames, sources of ignition and incompatible materials.

#### 10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizers.

#### 10.6. Hazardous decomposition products

Carbon oxides (CO, CO<sub>2</sub>). Silicon oxides. May produce explosive hydrogen gas on contact with incompatibilities or upon thermal decomposition. Will decompose above  $150\,^{\circ}$ C (>  $300^{\circ}$  F) releasing formaldehyde vapors. Formaldehyde is a potential carcinogen and can act as a potential skin and respiratory sensitizer. Formaldehyde can also cause respiratory and eye irritation.

# **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity Dermal: Harmful in contact with skin. Inhalation:vapor: Harmful if inhaled.

R-2180-2 Part B	
ATE (Dermal)	1,699.10 mg/kg body weight
ATE (Vapors)	16.99 mg/l/4h
Xylenes (o-, m-, p- isomers) (1330	-20-7)
LD50 oral rat	> 5000 mg/kg
LC50 inhalation rat (ppm)	6247 ppm/4h (species: Sprague-Dawley)
ATE (Dermal)	1,100.00 mg/kg body weight
ATE (Gases)	6,247.00 ppmV/4h
ATE (Vapors)	11.00 mg/l/4h

Carbon black (1333-86-4)		
LD50 oral rat	> 8000 ma/ka	

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation Causes serious eye irritation.

Respiratory or skin sensitization Not classified Germ cell mutagenicity Not classified

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Carcinogenicity Not classified.

Xylenes (o-, m-, p- isomers) (1330-2	0-7)
IARC group	3

Carbon black (1333-86-4)

IARC group 2B

OSHA Hazard Communication Carcinogen list.

Carcinogen List

Reproductive toxicity : Not classified

Specific target organ toxicity (single : May cause drowsiness or dizziness.

exposure)

Specific target organ toxicity (repeated : Not classified

exposure)

Aspiration hazard May be fatal if swallowed and enters airways.

Symptoms/injuries after May cause drowsiness or dizziness. Harmful if inhaled.

inhalation

Symptoms/injuries after skin Causes skin irritation. Harmful in contact with skin.

contact

Symptoms/injuries after eye Causes serious eye irritation.

contact

Symptoms/injuries after May be fatal if swallowed and enters airways.

ingestion

Chronic symptoms None expected under normal conditions of use.

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

Ecology - general Toxic to aquatic life.

Xylenes (o-, m-, p- isomers) (1330-20-7)		
LC50 fish 1	3.3 mg/l	
EC50 Daphnia 1	3.82 mg/l (Exposure time: 48 h - Species: water flea)	
LC50 fish 2	2.661 (2.661 - 4.093) mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss	
	[static])	
Carbon black (1333-86-4)		
EC50 Daphnia 1	5600 mg/l (Exposure time: 24 h - Species: Daphnia magna)	

12.2. Persistence and degradability

R-2180-2 Part B	
Persistence and degradability	Not established.

#### 12.3. Bioaccumulative potential

·=····				
R-2180-2 Part B				
Bioaccumulative potential	Not established.			
Xylenes (o-, m-, p- isomers) (1330-20-7)				
BCF fish 1	0.6 (0.6 - 15)			
Log Pow	2.77 - 3.15			

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

Other information Avoid release to the environment.

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# SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Sewage disposal This material is hazardous to the aquatic environment. Keep

recommendations out of sewers and waterways.

Waste disposal Dispose of waste material in accordance with all local,

recommendations regional, national, and international regulations.

Additional information Handle empty containers with care because residual vapors

are flammable.

# **SECTION 14: Transport information**

In accordance with DOT / IMDG / IATA

14.1.UN number

UN-No.(DOT) 1307 DOT NA no. UN1307

14.2. UN proper shipping name

Proper Shipping Name (DOT) **Xylenes** 

Transport hazard class(es) 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

(DOT)

Hazard labels (DOT) 3 - Flammable liquid



Packing group (DOT) III - Minor Danger

DOT Special Provisions (49 CFR B1 - If the material has a flash point at or above 38 C (100 F) 172.102)

and below 93 C (200 F), then the bulk packaging

requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are

applicable.

IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).

T2 - 1.5 178.274(d)(2) Normal..... 178.275(d)(3)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / (1 + a (tr - tf)) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in

degrees celsius of the liquid during filling.

DOT Packaging Exceptions (49

CFR 173.xxx)

DOT Packaging Non Bulk (49

CFR 173.xxx)

203

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DOT Packaging Bulk (49 CFR

173.xxx)

Marine pollutant Marine pollutant



242

#### 14.3. Additional information

Emergency Response Guide 130

(ERG) Number

Other information No supplementary information available.

Transport by sea

DOT Vessel Stowage Location A - The material may be stowed "on deck" or "under deck"

on a cargo vessel and on a passenger vessel.

EmS-No. (1) F-E MFAG-No 130 EmS-No. (2) S-D

Air transport

DOT Quantity Limitations 60 L

Passenger aircraft/rail (49 CFR

173.27)

DOT Quantity Limitations 220 L

Cargo aircraft only (49 CFR

175.75)

# **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

All components of this product are listed or exempted from being listed on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

Trolection Agency Toxic substances Control Act (13CA) inventory.		
R-2180-2 Part B		
SARA Section 311/312 Hazard Classes	Fire hazard	
	Immediate (acute) health hazard	
Xylenes (o-, m-, p- isomers) (1330-20-7)		
Subject to reporting requirements of United States SARA Section 313		
CERCLA RQ	100 lb	
SARA Section 313 - Emission Reporting	1.0 %	

### 15.2. US State regulations

Xylenes (o-, m-, p- isomers) (1330-20-7)	
U.S California - Proposition 65 - Carcinogens List	WARNING: This product contains chemicals known
	to the State of California to cause cancer.

#### Xylenes (o-, m-, p- isomers) (1330-20-7)

- U.S. California SCAQMD Toxic Air Contaminants Non-Cancer Acute
- U.S. California SCAQMD Toxic Air Contaminants Non-Cancer Chronic
- U.S. California Toxic Air Contaminant List (AB 1807, AB 2728)
- U.S. Colorado Groundwater Quality Standards
- U.S. Colorado Hazardous Wastes Discarded Chemical Products, Off-Specification Species, Container and Spill Residues
- U.S. Colorado Primary Drinking Water Regulations Maximum Contaminant Level Goals (MCLGs)
- U.S. Colorado Primary Drinking Water Regulations Maximum Contaminant Levels (MCLs)
- U.S. Connecticut Drinking Water Quality Standards Maximum Contaminant Levels

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- U.S. Delaware Pollutant Discharge Requirements Reportable Quantities
- U.S. Florida Drinking Water Standards Volatile Organic Contaminants Maximum Contaminant Levels (MCLs)
- U.S. Georgia Drinking Water Maximum Contaminant Levels (MCLs)
- U.S. Idaho Non-Carcinogenic Toxic Air Pollutants Acceptable Ambient Concentrations
- U.S. Idaho Non-Carcinogenic Toxic Air Pollutants Emission Levels (ELs)
- U.S. Idaho Occupational Exposure Limits TWAs
- U.S. Illinois Toxic Air Contaminants
- U.S. Louisiana Reportable Quantity List for Pollutants
- U.S. Maine Air Pollutants Hazardous Air Pollutants
- U.S. Massachusetts Allowable Ambient Limits (AALs)
- U.S. Massachusetts Allowable Threshold Concentrations (ATCs)
- U.S. Massachusetts Drinking Water Maximum Contaminant Levels (MCLs)
- U.S. Massachusetts Oil & Hazardous Material List Groundwater Reportable Concentration Reporting Category 1
- U.S. Massachusetts Oil & Hazardous Material List Groundwater Reportable Concentration Reporting Category 2
- U.S. Massachusetts Oil & Hazardous Material List Reportable Quantity
- U.S. Massachusetts Oil & Hazardous Material List Soil Reportable Concentration Reporting Category 1
- U.S. Massachusetts Oil & Hazardous Material List Soil Reportable Concentration Reporting Category 2
- RTK U.S. Massachusetts Right To Know List
- U.S. Massachusetts Threshold Effects Exposure Limits (TELs)
- U.S. Massachusetts Toxics Use Reduction Act
- U.S. Michigan Occupational Exposure Limits STELs
- U.S. Michigan Occupational Exposure Limits TWAs
- U.S. Michigan Polluting Materials List
- U.S. Minnesota Chemicals of High Concern
- U.S. Minnesota Groundwater Health Risk Limits
- U.S. Minnesota Hazardous Substance List
- U.S. Minnesota Permissible Exposure Limits STELs
- U.S. Minnesota Permissible Exposure Limits TWAs
- U.S. Missouri Drinking Water Maximum Contaminant Levels (MCLs)
- U.S. Nebraska Drinking Water Maximum Contaminant Levels (MCLs)
- U.S. New Hampshire Drinking Water Maximum Contaminant Levels (MCLs)
- U.S. New Hampshire Regulated Toxic Air Pollutants Ambient Air Levels (AALs) 24-Hour
- U.S. New Hampshire Regulated Toxic Air Pollutants Ambient Air Levels (AALs) Annual
- U.S. New Jersey Discharge Prevention List of Hazardous Substances
- U.S. New Jersey Environmental Hazardous Substances List
- U.S. New Jersey Primary Drinking Water Standards Maximum Contaminant Levels MCLs
- RTK U.S. New Jersey Right to Know Hazardous Substance List
- U.S. New Jersey Special Health Hazards Substances List
- U.S. New Jersey Water Quality Ground Water Quality Criteria
- U.S. New Jersey Water Quality Practical Quantitation Levels (PQLs)
- U.S. New Mexico Water Quality Standards for Ground Water of 10,000 mg/L TDS Concentration or Less
- U.S. New York Occupational Exposure Limits TWAs
- U.S. New York Reporting of Releases Part 597 List of Hazardous Substances
- U.S. North Carolina Control of Toxic Air Pollutants
- U.S. North Dakota Air Pollutants Guideline Concentrations 1-Hour
- U.S. North Dakota Air Pollutants Guideline Concentrations 8-Hour
- U.S. North Dakota Hazardous Wastes Discarded Chemical Products, Off-Specification Species, Container and Spill Residues
- U.S. North Dakota Water Quality Standards Human Health Value for Classes I, IA, II
- U.S. Oregon Permissible Exposure Limits TWAs
- U.S. California Safer Consumer Products Initial List of Candidate Chemicals and Chemical Groups
- U.S. Pennsylvania Drinking Water Maximum Contaminant Levels (MCLs)
- RTK U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- RTK U.S. Pennsylvania RTK (Right to Know) List

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- U.S. Rhode Island Air Toxics Acceptable Ambient Levels 1-Hour
- U.S. Rhode Island Air Toxics Acceptable Ambient Levels 24-Hour
- U.S. Rhode Island Air Toxics Acceptable Ambient Levels Annual
- U.S. Rhode Island Water Quality Standards Acute Freshwater Aquatic Life Criteria
- U.S. Rhode Island Water Quality Standards Chronic Freshwater Aquatic Life Criteria
- U.S. South Carolina Maximum Contaminant Levels (MCLs)
- U.S. South Carolina Toxic Air Pollutants Maximum Allowable Concentrations
- U.S. South Carolina Toxic Air Pollutants Pollutant Categories
- U.S. Tennessee Occupational Exposure Limits STELs
- U.S. Tennessee Occupational Exposure Limits TWAs
- U.S. Texas City of Austin Aerosol Paint and Glue Restrictions
- U.S. Texas Drinking Water Standards Maximum Contaminant Levels (MCLs)
- U.S. Texas Effects Screening Levels Long Term
- U.S. Texas Effects Screening Levels Short Term
- U.S. Utah Drinking Water Maximum Contaminant Levels (MCLs)
- U.S. Washington Dangerous Waste Discarded Chemical Products List
- U.S. Washington Permissible Exposure Limits STELs
- U.S. Washington Permissible Exposure Limits TWAs
- U.S. West Virginia Water Quality Groundwater Standards Ceiling Concentrations
- U.S. Wisconsin Hazardous Air Contaminants All Sources Emissions From Stack Heights 25 Feet to Less Than 40 Feet
- U.S. Wisconsin Hazardous Air Contaminants All Sources Emissions From Stack Heights 40 Feet to Less Than 75 Feet
- U.S. Wisconsin Hazardous Air Contaminants All Sources Emissions From Stack Heights 75 Feet or Greater
- U.S. Wisconsin Hazardous Air Contaminants All Sources Emissions From Stack Heights Less Than 25 Feet

#### Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica (68909-20-6)

- U.S. Texas Effects Screening Levels Long Term
- U.S. Texas Effects Screening Levels Short Term

### Carbon black (1333-86-4)

U.S. - California - Proposition 65 - Carcinogens List

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

#### Carbon black (1333-86-4)

- U.S. California Toxic Air Contaminant List (AB 1807, AB 2728)
- U.S. Connecticut Hazardous Air Pollutants HLVs (30 min)
- U.S. Connecticut Hazardous Air Pollutants HLVs (8 hr)
- U.S. Idaho Non-Carcinogenic Toxic Air Pollutants Acceptable Ambient Concentrations
- U.S. Idaho Non-Carcinogenic Toxic Air Pollutants Emission Levels (ELs)
- U.S. Idaho Occupational Exposure Limits TWAs
- U.S. Illinois Toxic Air Contaminant Carcinogens
- U.S. Illinois Toxic Air Contaminants
- U.S. Maine Chemicals of High Concern
- RTK U.S. Massachusetts Right To Know List
- U.S. Michigan Occupational Exposure Limits TWAs
- U.S. Minnesota Chemicals of High Concern
- U.S. Minnesota Hazardous Substance List
- U.S. Minnesota Permissible Exposure Limits TWAs
- RTK U.S. New Jersey Right to Know Hazardous Substance List
- U.S. New Jersey Special Health Hazards Substances List
- U.S. New York Occupational Exposure Limits TWAs
- U.S. North Dakota Air Pollutants Guideline Concentrations 8-Hour
- U.S. Oregon Permissible Exposure Limits TWAs
- RTK U.S. Pennsylvania RTK (Right to Know) Special Hazardous Substances
- RTK U.S. Pennsylvania RTK (Right to Know) List
- U.S. Tennessee Occupational Exposure Limits TWAs
- U.S. Texas Effects Screening Levels Long Term

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- U.S. Texas Effects Screening Levels Short Term
- U.S. Vermont Permissible Exposure Limits TWAs
- U.S. Washington Permissible Exposure Limits STELs
- U.S. Washington Permissible Exposure Limits TWAs
- U.S. Wisconsin Hazardous Air Contaminants All Sources Emissions From Stack Heights 25 Feet to Less Than 40 Feet
- U.S. Wisconsin Hazardous Air Contaminants All Sources Emissions From Stack Heights 40 Feet to Less Than 75 Feet
- U.S. Wisconsin Hazardous Air Contaminants All Sources Emissions From Stack Heights 75 Feet or Greater
- U.S. Wisconsin Hazardous Air Contaminants All Sources Emissions From Stack Heights Less Than 25 Feet

# SECTION 16: Other information, including date of preparation or last revision

Revision date 02/20/2020

Other information This document has been prepared in accordance with the

SDS requirements of the OSHA Hazard Communication

Standard 29 CFR 1910.1200.

#### Full text of H-phrases:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation:vapor)	Acute toxicity (inhalation:vapor) Category 4
Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2
Asp. Tox. 1	Aspiration hazard Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 3	Flammable liquids Category 3
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H226	Flammable liquid and vapor
H304	May be fatal if swallowed and enters airways
H312	Harmful in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation

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H336	May cause drowsiness or dizziness
H401	Toxic to aquatic life
NFPA health hazard	2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.
NFPA fire hazard	3 - Liquids and solids that can be ignited under almost all ambient conditions.
NFPA reactivity	0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS III Rating	
Health	2 Moderate Hazard - Temporary or minor injury may occur
Flammability	3 Serious Hazard
Physical	0 Minimal Hazard

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