

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

## **SECTION 1: Identification**

#### 1.1. Identification

Product form : Mixture
Product name : 20-2140PBK

#### 1.2. Recommended use and restrictions on use

Recommended use : Potting compound

Restrictions on use : Not to be used for any purpose other than the one the product was designed for

#### 1.3. Supplier

Epoxies, Etc. 21 Starline Way Cranston, RI 02921 USA T 401-946-5564

T 401-946-5564 www.epoxies.com

## 1.4. Emergency telephone number

Emergency number : VelocityEHS: +1 (800) 255-3924, +1 (813) 248-0585

## **SECTION 2: Hazard(s) identification**

#### 2.1. Classification of the substance or mixture

#### **GHS US classification**

Respiratory sensitization, Category 1 H334 May cause allergy or asthma symptoms or breathing difficulties if

inhaled.

Skin sensitization, Category 1 H317 May cause an allergic skin reaction Carcinogenicity Category 2 H351 Suspected of causing cancer

Specific target organ toxicity (repeated exposure) Category 2 H373 May cause damage to organs through prolonged or repeated

exposure

Full text of H statements : see section 16

## 2.2. GHS Label elements, including precautionary statements

## **GHS US labeling**

Hazard pictograms (GHS US)



Signal word (GHS US) : Danger

Hazard statements (GHS US) : H317 - May cause an allergic skin reaction

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H351 - Suspected of causing cancer

H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary statements (GHS US) : P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P260 - Do not breathe dust/fume/gas/mist/vapors/spray. P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.

P272 - Contaminated work clothing must not be allowed out of the workplace.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

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P284 - [In case of inadequate ventilation] wear respiratory protection.

P302+P352 - If on skin: Wash with plenty of water.

P304+P341 - If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.

P308+P313 - If exposed or concerned: Get medical advice/attention.

P314 - Get medical advice/attention if you feel unwell.

P321 - Specific treatment (see supplemental first aid instruction on this label).

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P342+P311 - If experiencing respiratory symptoms: Call a poison center or doctor.

P363 - Wash contaminated clothing before reuse.

P405 - Store locked up.

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

#### 2.3. Other hazards which do not result in classification

Other hazards which do not result in classification : Harmful dust may be released during cutting, milling or grinding process.

## 2.4. Unknown acute toxicity (GHS US)

No additional information available

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

#### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	GHS US classification
Benzene, 1,1'-methylenebis[isocyanato-	CAS-No.: 26447-40-5	1 – 5	Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373
Diphenylmethane 4,4'-diisocyanate	CAS-No.: 101-68-8	1 – 5	Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373
Diphenylmethane diisocyanate (homopolymer)	CAS-No.: 39310-05-9	< 5	Resp. Sens. 1, H334
Carbon black	CAS-No.: 1333-86-4	< 1	Self-heat. 1, H251 Carc. 2, H351

Comments

: Components not listed are either non-hazardous or are below reportable limits.

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of hazard classes and H-statements : see section 16

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#### **SECTION 4: First-aid measures**

#### 4.1. Description of first aid measures

First-aid measures general : IF exposed or concerned: Get medical advice/attention. Call a poison center/doctor/physician if

you feel unwell.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory

symptoms: Call a poison center or a doctor.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs:

Get medical advice/attention.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation : May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Symptoms/effects after skin contact : May cause an allergic skin reaction.

#### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

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

## 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

#### 5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Toxic fumes may be released.

#### 5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

#### **SECTION 6: Accidental release measures**

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

### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin

and eyes.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer

to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment.

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

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public

waters.

Other information : Dispose of materials or solid residues at an authorized site.

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## 6.4. Reference to other sections

For further information refer to section 13.

## **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

Precautions for safe handling

: Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.

Hygiene measures

: Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Storage conditions : Store locked up. Store in a well-ventilated place. Keep cool.

## **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

20-2440DBK

20-2140PBK		
No additional information available		
Carbon black (1333-86-4)		
Carbon black (*Not a respirable hazard as contained in this liquid mixture)		
3 mg/m³ (I - Inhalable particulate matter)		
TLV® Basis: Bronchitis. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)		
ACGIH 2022		
USA - OSHA - Occupational Exposure Limits		
Carbon black (*Not a respirable hazard as contained in this liquid mixture)		
3.5 mg/m³		
OSHA Annotated Table Z-1		
Diphenylmethane 4,4'-diisocyanate (101-68-8)		
USA - ACGIH - Occupational Exposure Limits		
Methylene bisphenyl isocyanate (MDI)		
0.005 ppm		
TLV® Basis: Resp sens		
ACGIH 2022		
USA - OSHA - Occupational Exposure Limits		
Methylene bisphenyl isocyanate (MDI)		
0.2 mg/m³		

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Diphenylmethane 4,4'-diisocyanate (101-68-8)	
OSHA PEL C [ppm]	0.02 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
Benzene, 1,1'-methylenebis[isocyanato- (26447-40-5)	
No additional information available	
Diphenylmethane diisocyanate (homopolymer) (39310-05-9)	

#### 8.2. Appropriate engineering controls

No additional information available

Appropriate engineering controls : Ensure good ventilation of the work station. Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

#### Hand protection:

Wear suitable gloves resistant to chemical penetration. Neoprene or nitrile rubber gloves. Butyl-rubber protective gloves. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Refer to manufacturer's information. Gloves must be replaced after each use and whenever signs of wear or perforation appear

#### Eye protection:

Safety glasses

### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

## Personal protective equipment symbol(s):







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

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

Physical state : Liquid

Color : Mixture contains one or more component(s) which have the following colour(s):

Dark grey to black White to light yellow Colourless Colourless to yellow-green

Odor : There may be no odour warning properties, odour is subjective and inadequate to warn of

overexposure.

Mixture contains one or more component(s) which have the following odour:

Odourless Mild odour Stuffy odour Characteristic odour

Odor threshold : No data available pH : No data available Melting point : Not applicable continuous continuous

Freezing point : No data available
Boiling point : No data available
Flash point : No data available

Volume : No data available

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Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) : Not applicable. Vapor pressure : No data available Relative vapor density at 20°C : No data available Relative density : No data available : No data available Solubility Partition coefficient n-octanol/water (Log Pow) : No data available Auto-ignition temperature No data available Decomposition temperature No data available : No data available Viscosity, kinematic : No data available Viscosity, dynamic : No data available **Explosion limits** Explosive properties : No data available Oxidizing properties : No data available

## 9.2. Other information

No additional information available

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

## 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

## 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Carbon black (1333-86-4)	
LD50 oral rat	> 8000 mg/kg Source: ECHA
LD50 oral	8000 mg/kg
LD50 dermal rabbit	> 8000 mg/kg Source: ECHA
ATE US (oral)	8000 mg/kg body weight

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	<u> </u>
Diphenylmethane 4,4'-diisocyanate (101-68-8)	
LD50 oral rat	> 2000 mg/kg body weight (Rat, Male / female, Read-across, Oral, 14 day(s))
LD50 oral	31600 mg/kg
LD50 dermal rabbit	> 9400 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Read-across, Dermal, 14 day(s))
LC50 Inhalation - Rat (Dust/Mist)	0.369 mg/l/4h
ATE US (oral)	31600 mg/kg body weight
ATE US (gases)	4500 ppmV/4h
ATE US (vapors)	11 mg/l/4h
ATE US (dust, mist)	0.369 mg/l/4h
Benzene, 1,1'-methylenebis[isocyanato- (2644	147-40-5)
LD50 oral rat	> 2000 mg/kg body weight (Other, Rat, Male / female, Experimental value, Oral)
LD50 oral	31600 mg/kg
LD50 dermal rabbit	> 9400 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Read-across, Skin)
LC50 Inhalation - Rat	0.49 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Read-across, Inhalation (aerosol))
LC50 Inhalation - Rat (Dust/Mist)	0.369 mg/l/4h
ATE US (oral)	31600 mg/kg body weight
ATE US (gases)	4500 ppmV/4h
ATE US (vapors)	0.49 mg/l/4h
ATE US (dust, mist)	0.369 mg/l/4h
Skin corrosion/irritation :	Not classified
Carbon black (1333-86-4)	
рН	4 – 10 (5 %, 20 °C)
Diphenylmethane 4,4'-diisocyanate (101-68-8)	
рН	7 (6.8E-3 g/l, 25 °C)
Serious eye damage/irritation :	Not classified
Carbon black (1333-86-4)	
рН	4 – 10 (5 %, 20 °C)
Diphenylmethane 4,4'-diisocyanate (101-68-8)	
рН	7 (6.8E-3 g/l, 25 °C)
	May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
3	Not classified
	Suspected of causing cancer.
Carbon black (1333-86-4)	
Additional information	*Not a respirable hazard as contained in this liquid mixture
IARC group	2B - Possibly carcinogenic to humans

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IARC group	3 - Not classifiable	
Reproductive toxicity	: Not classified	
STOT-single exposure	: Not classified	
Diphenylmethane 4,4'-diisocyanate (101-68-	8)	
STOT-single exposure	May cause respiratory irritation.	
Benzene, 1,1'-methylenebis[isocyanato- (26	447-40-5)	
STOT-single exposure	May cause respiratory irritation.	
STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.	
Carbon black (1333-86-4)		
LOAEC (inhalation, rat, dust/mist/fume, 90 days)	0.0071 mg/l air Animal: rat, Animal sex: male	
NOAEL (oral,rat,90 days)	> 1000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90- Day Oral Toxicity Study in Rodents)	
NOAEC (inhalation,rat,dust/mist/fume,90 days)	0.0011 mg/l air Animal: rat, Animal sex: male	
Diphenylmethane 4,4'-diisocyanate (101-68-8)		
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.	
Benzene, 1,1'-methylenebis[isocyanato- (26	447-40-5)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.	
Aspiration hazard	: Not classified	
/iscosity, kinematic	: No data available	
Carbon black (1333-86-4)		
Viscosity, kinematic	Not applicable (solid)	
Diphenylmethane 4,4'-diisocyanate (101-68-	8)	
Viscosity, kinematic	Not applicable (solid)	
Benzene, 1,1'-methylenebis[isocyanato- (26447-40-5)		
Viscosity, kinematic	9.09 mm²/s (20 °C)	
Symptoms/effects after inhalation Symptoms/effects after skin contact	May cause allergy or asthma symptoms or breathing difficulties if inhaled.  May cause an allergic skin reaction.	

## **SECTION 12: Ecological information**

		city

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

Carbon black (1333-86-4)	
LC50 - Fish [1]	> 1000 mg/l Source: NITE
EC50 - Crustacea [1]	> 5600 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 24 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
EC50 72h - Algae [1]	> 10000 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 72h - Algae [2]	> 10000 mg/l Test organisms (species):

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Carbon black (1333-86-4)		
ErC50 algae	> 10000 mg/l Source: EHCA	
Diphenylmethane 4,4'-diisocyanate (101-68-8)		
LC50 - Fish [1]	> 1000 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Static system, Fresh water, Read-across, Nominal concentration)	
EC50 - Crustacea [1]	129.7 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 24 h, Daphnia magna, Static system, Fresh water, Read-across, Locomotor effect)	
ErC50 algae	> 1640 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Read-across, GLP)	
Benzene, 1,1'-methylenebis[isocyanato- (2644	i7-40-5)	
LC50 - Fish [1]	> 1000 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Brachydanio rerio, Static system, Fresh water, Read-across, Lethal)	
EC50 - Crustacea [1]	> 1000 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 24 h, Daphnia magna, Static system, Fresh water, Read-across)	
EC50 72h - Algae [1]	> 1640 mg/l (OECD 201: Alga, Growth Inhibition Test, Scenedesmus subspicatus, Static system, Fresh water, Read-across, Growth rate)	

## 12.2. Persistence and degradability

Carbon black (1333-86-4)		
Not rapidly degradable		
Persistence and degradability	Biodegradability in soil: not applicable. Biodegradability: not applicable.	
Chemical oxygen demand (COD)	Not applicable (inorganic)	
ThOD	Not applicable (inorganic)	
Diphenylmethane 4,4'-diisocyanate (101-68-8)		
Not rapidly degradable		
Persistence and degradability	Not readily biodegradable in water.	
Benzene, 1,1'-methylenebis[isocyanato- (26447-40-5)		
Not rapidly degradable		
Persistence and degradability	Contains non readily biodegradable component(s).	

## 12.3. Bioaccumulative potential

Carbon black (1333-86-4)		
Bioaccumulative potential	Not bioaccumulative.	
Diphenylmethane 4,4'-diisocyanate (101-68-8)		
BCF - Fish [1]	92 – 200 (OECD 305: Bioconcentration: Flow-Through Fish Test, 4 week(s), Cyprinus carpio, Flow-through system, Fresh water, Experimental value, GLP)	
Partition coefficient n-octanol/water (Log Pow)	4.51 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 22 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	

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Benzene, 1,1'-methylenebis[isocyanato- (26447-40-5)	
BCF - Fish [1]	92 (OECD 305: Bioconcentration: Flow-Through Fish Test, 28 day(s), Cyprinus carpio, Flow-through system, Fresh water, Read-across, GLP)
Partition coefficient n-octanol/water (Log Pow)	4.51 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 22 °C)
Bioaccumulative potential	Does not contain bioaccumulative component(s).

## 12.4. Mobility in soil

Carbon black (1333-86-4)		
Surface tension	Not applicable (solid)	
Ecology - soil	No (test)data on mobility of the substance available. Not toxic to plants. Not toxic to animals.	
Diphenylmethane 4,4'-diisocyanate (101-68-8)		
Surface tension	No data available in the literature	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	4.53 – 5.455 (log Koc, SRC PCKOCWIN v2.0, Calculated value)	
Ecology - soil	Adsorbs into the soil.	
Benzene, 1,1'-methylenebis[isocyanato- (26447-40-5)		
Ecology - soil	No (test)data on mobility of the component(s) available.	

## 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

## 13.1. Disposal methods

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

## **SECTION 14: Transport information**

In accordance with DOT / TDG / IMDG / IATA

DOT	TDG	IMDG	IATA	
14.1. UN number				
Not regulated for transport				
14.2. Proper Shipping Name				
Not applicable	Not applicable	Not applicable	Not applicable	
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	

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DOT	TDG	IMDG	IATA
14.5. Environmental hazards			
Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available			

## 14.6. Special precautions for user

#### **DOT**

No data available

#### **TDG**

No data available

#### **IMDG**

No data available

#### **IATA**

No data available

## 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## **SECTION 15: Regulatory information**

## 15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Diphenylmethane 4,4'-diisocyanate CAS-No. 101-68-8 1 – 5%

## Diphenylmethane 4,4'-diisocyanate (101-68-8)

Listed on EPA Hazardous Air Pollutant (HAPS)

CERCLA RQ 5000 lb

## 15.2. International regulations

#### **CANADA**

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

Listed on the Canadian DSL (Domestic Substances List)

## Diphenylmethane 4,4'-diisocyanate (101-68-8)

Listed on the Canadian DSL (Domestic Substances List)

## Benzene, 1,1'-methylenebis[isocyanato- (26447-40-5)

Listed on the Canadian DSL (Domestic Substances List)

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#### Diphenylmethane diisocyanate (homopolymer) (39310-05-9)

Listed on the Canadian DSL (Domestic Substances List)

#### **EU-Regulations**

No additional information available

#### **National regulations**

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

Listed on IARC (International Agency for Research on Cancer)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

## Diphenylmethane 4,4'-diisocyanate (101-68-8)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### Benzene, 1,1'-methylenebis[isocyanato- (26447-40-5)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### 15.3. US State regulations



This product can expose you to Carbon black (airborne, unbound particles of respirable size), which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Component	State or local regulations
Carbon black(1333-86-4)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
Diphenylmethane 4,4'-diisocyanate(101-68-8)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List

## **SECTION 16: Other information**

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Full text of H-phrases	
H251	Self-heating; may catch fire
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H332	Harmful if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation
H351	Suspected of causing cancer
H373	May cause damage to organs through prolonged or repeated exposure

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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