

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 6/3/2024 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
Product form Product name	: Mixture : 20-2101PBK		
1.2. Recommended use and restrictions or	n use		
Recommended use Restrictions on use	: Potting comp : Not to be use		oose 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 <u>www.epoxies.com</u>			
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 mixed	ture		
GHS US classification			
Respiratory sensitization, Category 1		H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitization, Category 1 Carcinogenicity Category 2		H317 H351	May cause an allergic skin reaction Suspected of causing cancer
Specific target organ toxicity (repeated exposure) C	ategory 2	H373	May cause damage to organs through prolonged or repeated
Full text of H statements : see section 16			exposure
2.2. GHS Label elements, including precau	itionary statem	ents	
GHS US labeling			
Hazard pictograms (GHS US)		>	
Signal word (GHS US) Hazard statements (GHS US)	H351 - Suspe	ause allergy c	or asthma symptoms or breathing difficulties if inhaled.
Precautionary statements (GHS US)	 H373 - May cause damage to organs through prolonged or repeated exposure 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.

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 eff	ects (acute and delayed)
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.

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 ed	quipment 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 containm	ent 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	e
7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure good ventilation of the work station. Obtain special instructions before use. Do not handl until all safety precautions have been read and understood. Wear personal protective equipmen 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, inclu	

Storage conditions

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

20-2101PBK		
No additional information available		
Carbon black (1333-86-4)		
USA - ACGIH - Occupational Exposure Limits		
Local name	Carbon black (*Not a respirable hazard as contained in this liquid mixture)	
ACGIH OEL TWA	3 mg/m ³ (I - Inhalable particulate matter)	
Remark (ACGIH)	TLV® Basis: Bronchitis. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)	
Regulatory reference	ACGIH 2022	
USA - OSHA - Occupational Exposure Limits		
Local name	Carbon black (*Not a respirable hazard as contained in this liquid mixture)	
OSHA PEL TWA [1]	3.5 mg/m ³	
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1	
Diphenylmethane 4,4'-diisocyanate (101-68-8)		
USA - ACGIH - Occupational Exposure Limits		
Local name	Methylene bisphenyl isocyanate (MDI)	
ACGIH OEL TWA [ppm]	0.005 ppm	
Remark (ACGIH)	TLV® Basis: Resp sens	
Regulatory reference	ACGIH 2022	
USA - OSHA - Occupational Exposure Limits		
Local name	Methylene bisphenyl isocyanate (MDI)	
OSHA PEL C	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)		
No additional information available		
8.2. Appropriate engineering controls		
Appropriate engineering controls Environmental exposure controls	Ensure good ventilation of the work station.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	: No data available	
Freezing point	: No data available	
Boiling point	: No data available	
Flash point	: No data available	

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Relative evaporation rate (butyl acetate=1) Flammability (solid, gas) Vapor pressure	No data availableNot applicable.No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic Explosion limits	: No data available : No data available
Explosion ninks Explosive properties	: No data available
Oxidizing properties	: No data available
Oxidizing properties	

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 (dermal) :	Not classified Not classified 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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D50 oral 31600 mg/kg D50 oral 31600 mg/kg D50 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/k4h ATE US (oral) 31600 mg/kg body weight ATE US (oral) 11 mg/k4h ATE US (dust, mist) 0.369 mg/k4h Benzene, 1,1*methylenebis[Isocyanato-(26447-40-5) D LD50 oral rat > 2000 mg/kg body weight (Other, Rat, Male / female, Experimental value, Oral) D50 oral rat > 2000 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female LD50 oral rat > 2000 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female LD50 oral rat > 9400 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female LD50 oral rat > 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/k4h ATE US (oral) 31600 org/kg body weight ATE US (usa, mist) 0.369 mg/k4h TE US (usa, mist) 0.49 mg/k4h Carbon black (1333-86-4) pH 7 (6.8E-3 g/l, 25 °C) <td< th=""><th>Diphenylmethane 4,4'-diisocyanate (101-68-8)</th><th></th></td<>	Diphenylmethane 4,4'-diisocyanate (101-68-8)		
D50 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 (spases) 4500 pm/v/4h ATE US (uspors) 11 mg/l/4h ATE US (uspors) 11 mg/l/4h ATE US (dust, mist) 0.369 mg/l/4h Benzene, 1,1'-methylenebis[isocyanato- (26447-40-5) D D50 oral rat > 2000 mg/kg body weight (Other, Rat, Male / female, Experimental value, Oral) LD50 oral rat > 2400 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female Read-across, Skin) LD50 oral rat > 9400 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female Read-across, Skin) LD50 oral rat 0.49 mg/l/4h LD50 oral rat 0.49 mg/l/4h LC50 Inhalation - Rat (Dust/Mist) 0.369 mg/l/4h ATE US (uspors) 0.49 mg/l/4h ATE US (uspors) 0.49 mg/l/4h ATE US (uspors) 0.49 mg/l/4h ATE US (uspaces) 4500 ppm/l/4h ATE US (uspaces) A 10 (5 %, 20 °C) Diphenylmethane 4,4'-dilisocyanate (101-68-3) pH <td< td=""><td>LD50 oral rat</td><td>> 2000 mg/kg body weight (Rat, Male / female, Read-across, Oral, 14 day(s))</td></td<>	LD50 oral rat	> 2000 mg/kg body weight (Rat, Male / female, Read-across, Oral, 14 day(s))	
Read-across, Dernal, 14 day(s)) LCS0 Inhalation - Rat (Dust/Mist) 3680 mg/l/4h ATE US (gases) 4500 pm/l/4h ATE US (gases) 11 mg/l/4h ATE US (gases) 11 mg/l/4h Benzene, 1,1'-methylenebis[isocyanato-(264/7-40-5) 11 LDS0 oral rat > 2000 mg/kg body weight (Dther, Rat, Male / female, Experimental value, Oral) LDS0 oral rat > 2000 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female Read-across, Skin) LDS0 Inhalation - Rat 0.49 mg/l air (Equivalent or similar to OECD 402, 44 h, Rat, Male / female, Read-across, Skin) LCS0 Inhalation - Rat (Dust/Mist) 0.49 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Read-across, Skin) LCS0 Inhalation - Rat (Dust/Mist) 0.49 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Read-across, Skin) LCS0 Inhalation - Rat (Dust/Mist) 0.49 mg/l/4h ATE US (gases) 4500 mg/kg body weight ATE US (gases) 4500 mg/kg body weight ATE US (dust, mist) 0.369 mg/l/4h Carbon black (1333-86-4) V pH 10 (5 % 20 °C) Carbon black (1333-86-4) V pH 10 (5 % 20 °C) <t< td=""><td>LD50 oral</td><td colspan="2">31600 mg/kg</td></t<>	LD50 oral	31600 mg/kg	
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ATE US (gases) 4500 ppmV/4h ATE US (vapors) 11 mg//4h ATE US (dust, mist) 0.369 mg//4h Benzene, 1,1'-methylenebis[isocyanato- (26447-40-5) LD50 oral rat > 2000 mg/kg body weight (Other, Rat, Male / female, Experimental value, Oral) LD50 oral rat > 9400 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Read-across, Skin) LD50 Inhalation - Rat 0.49 mg/lah C50 Inhalation - Rat 0.49 mg/lah ATE US (gases) 4500 ppmV/4h ATE US (gases) 4500 ppmV/4h ATE US (gases) 4500 ppmV/4h ATE US (gases) 0.49 mg/lah ATE US (dust, mist) 0.369 mg/lah Sin corrosion/intelion > Not classified Carbon black (1333-86-4) PH pH 4 - 10 (5 %, 20 °C) Diphenylmethane 4,4'-dilisocyanate (101-68-8) PH pH 4 - 10 (5 %, 20 °C) Diphenylmethane 4,4'-dilisocyanate (101	LC50 Inhalation - Rat (Dust/Mist)	0.369 mg/l/4h	
ATE US (vapors) 11 mg/l/4h ATE US (dust, mist) 0.369 mg/l/4h Benzene, 1,1*-methylenebis[isocyanato- (26447-40-5) 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/a ri (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Read-across, Skin) LC50 Inhalation - Rat (Dust/Mist) 0.369 mg/l/4h ATE US (oral) 31600 mg/kg body weight ATE US (gases) 4500 pm/l/4h ATE US (gases) 0.49 mg/l/4h ATE US (vapors) 0.49 mg/l/4h Carbon black (1333-86-4) PH pH 4 - 10 (5 %, 20 °C) Diphenylmethane 4,4'-diisocyanate (101-68-8) PH pH 7 (6.8E-3 g/l, 25 °C) Serious eye damage/iritation N to classified Carbon black (1333-86-4) PH <	ATE US (oral)	31600 mg/kg body weight	
ATE US (dust, mist) 0.369 mg/l/4h Benzene, 1,1-methylenebis[isocyanato- (26447-40-5) 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, Skin) LC50 Inhalation - Rat (Dust/Mist) 0.369 mg/l/4h ATE US (oral) 31600 mg/kg body weight ATE US (aust, mist) 0.369 mg/l/4h ATE US (qayors) 0.49 mg/l/4h ATE US (dust, mist) 0.369 mg/l/4h Skin corrosion/irritation Not classified Carbon black (1333-86-4) PH pH 4 - 10 (5 %, 20 °C) Diphenylmethane 4,4'-diisocyanate (101-68-5) Vot classified Carbon black (1333-86-4) F pH 7 (6.8E	ATE US (gases)	4500 ppmV/4h	
Benzene, 1,1'-methylenebis[isocyanato- (26447-0-5) LD50 oral rat > 2000 mg/kg body weight (Other, Rat, Male / female, Experimental value, Oral) LD50 oral rat 31600 mg/kg LD50 drain 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) 0.389 mg/l/4h ATE US (oral) 31600 mg/kg body weight ATE US (oral) 31600 mg/kg body weight ATE US (uspors) 0.49 mg/l/4h ATE US (uspors) 0.49 mg/l/4h ATE US (dust, mist) 0.369 mg/l/4h Skin corrosion/irritation : Not classified Carbon black (1333-86-4) PH PH 7 (6.8E -3 g/l, 25 °C) Serious eya damage/irritation : Not classified Carbon black (1333-86-4) PH PH 7 (6.8E -3 g/l, 25 °C) Serious eya damage/irritation : Not classified Carbon black (1333-86-4) PH PH 4 - 10 (5 %, 20 °C) DiphenyImethane 4,4'-diisocyanate (101-68-8) PH PH	ATE US (vapors)	11 mg/l/4h	
LD50 oral rat > 2000 mg/kg body weight (Other, Rat, Male / female, Experimental value, Oral) LD50 oral 31600 mg/kg 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 (acrosol)) 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 (qases) 0.49 mg/l/4h Skin corrosol/trintation Not classified Carbon black (1333-86-4) PH pH 4 - 10 (5 %, 20 °C) Diphenylmethane 4,4'-diisocyanate (101-68-8) PH pH 4 - 10 (5 %, 20 °C) Diphenylmethane 4,4'-diisocyanate (101-68-8) PH pH 7 (6.8E-3 g/l, 25 °C) Serious eye damage/irritation Not classified Carbon black (1333-86-4) PH pH 7 (6.8E-3 g/l, 25 °C) Respiratory or skin sensitization May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an all skin reaction. Serionogenicity	ATE US (dust, mist)	0.369 mg/l/4h	
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 ari (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 pgmV/4h ATE US (vapors) 0.49 mg/l/4h ATE US (vapors) 0.49 mg/l/4h ATE US (ust, mist) 0.369 mg/l/4h Sin corrosion/irritation > Not classified Carbon black (1333-86-4) V pH 4 - 10 (5 %, 20 °C) DiphenyImethane 4,4'-diisocyanate (101-68-8) V pH 4 - 10 (5 %, 20 °C) DiphenyImethane 4,4'-diisocyanate (101-68-8) V pH 7 (6.8E-3 g/l, 25 °C) Serious eye damage/irritation Not classified Carbon black (1333-86-4) V pH 7 (6.8E-3 g/l, 25 °C) Serious eye damage/irritation Not classified Carbon black (1333-86-4) V pH X - 10 (5 %, 20 °C) DiphenyImethane 4,4'-diis	Benzene, 1,1'-methylenebis[isocyanato- (2644	17-40-5)	
LD50 dermal rabbit > 9400 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female Read-across, Skin) LD50 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 pmV/4h ATE US (quayrs) 0.49 mg/l/4h ATE US (dust, mist) 0.369 mg/l/4h Skin corrosion/irritation : Not classified Carbon black (1333-86-4) PH PH 4 - 10 (5 %, 20 °C) Diphenylmethane 4,4*-diisocyanate (101-68-8) PH PH 7 (6.8E-3 g/l, 25 °C) Serious eye damage/irritation : Not classified Carbon black (1333-86-4) PH PH 7 (6.8E-3 g/l, 25 °C) Serious eye damage/irritation : Not classified Carbon black (1333-86-4) PH PH 7 (6.8E-3 g/l, 25 °C) Respiratory or skin sensitization : May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an all ms/m reaction. Serior cell mutagenicity : Not classified Carbon black (1333-86-4) : Not cl	LD50 oral rat	> 2000 mg/kg body weight (Other, Rat, Male / female, Experimental value, Oral)	
Read-across, Skin)LC50 Inhalation - Rat0.49 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Read-across, Inhalation (aerosoli))LC50 Inhalation - Rat (Dust/Mist)0.369 mg/l/4hATE US (oral)31600 mg/kg body weightATE US (gases)4500 ppmV/4hATE US (qases)0.49 mg/l/4hATE US (vapors)0.49 mg/l/4hATE US (dust, mist)0.369 mg/l/4hSkin corrosion/irritation: Not classifiedCarbon black (1333-86-4)PH4 - 10 (5 %, 20 °C)DiphenyImethane 4,4'-dilisocyanate (101-68-8)PH7 (6.8E-3 g/l, 25 °C)Serious eye damage/irritation: Not classifiedCarbon black (1333-86-4)PH4 - 10 (5 %, 20 °C)DiphenyImethane 4,4'-dilisocyanate (101-68-8)PH7 (6.8E-3 g/l, 25 °C)PH2 (10.5 %, 20 °C)DiphenyImethane 4,4'-dilisocyanate (101-68-8)pH5 %, 20 °C)DiphenyImethane 4,4'-dilisocyanate (101-68-8)pH1 % (2.8 °G) °C)DiphenyImethane 4,4'-dilisocyanate (101-68-8)pH7 (6.8E-3 g/l, 25 °C)Respiratory or skin sensitization: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an all ms/min reaction.Serior cell mutagenicity: Not classifiedCarbon black (1333-86-4): Not classifiedCarbon black (1333-86-4): Suspected of causing cancer.Carbon black (1333-86-4): Suspected of causing cancer.Carbon black (1333-86-4): Not classified	LD50 oral	31600 mg/kg	
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Germ cell mutagenicity : Not classified Carcinogenicity : Suspected of causing cancer.	рН	7 (6.8E-3 g/l, 25 °C)	
Carcinogenicity : Suspected of causing cancer. Carbon black (1333-86-4)	Respiratory or skin sensitization :	May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergi skin reaction.	
Carbon black (1333-86-4)	Germ cell mutagenicity :	Not classified	
	Carcinogenicity :	Suspected of causing cancer.	
Additional information *Not a respirable hazard as contained in this liquid mixture	Carbon black (1333-86-4)		
	Additional information	*Not a respirable hazard as contained in this liquid mixture	
IARC group 2B - Possibly carcinogenic to humans	IARC group	2B - Possibly carcinogenic to humans	

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Diphenylmethane 4,4'-diisocyanate (101-68-8)				
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- (2644	17-40-5)			
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- (2644	17-40-5)			
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.			
	Not classified 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)			
	May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.			

SECTION 12: Ecological information

12.1 Toxicity

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	17-40-5)	
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	ce 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	ce and degradability Not readily biodegradable in water.		
Benzene, 1,1'-methylenebis[isocyanato- (264	47-40-5)		
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

n accordance with DOT / TDG / IMDG / IATA			
DOT	TDG	IMDG	ΙΑΤΑ
14.1. UN number	14.1. UN number		
Not regulated for transport	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	ΙΑΤΑ
14.5. Environmental hazards			
Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information availab	le		
14.6. Special precautions for us	er		
DOT No data available			
TDG No data available			
IMDG No data available			
IATA No data available			
14.7. Transport in bulk accordin	ig to Annex II of MARPOL 73/78	and the IBC Code	
Not applicable			
SECTION 15: Regulatory info	ormation		
15.1. US Federal regulations			
All components of this product are pre (TSCA) inventory	esent and listed as Active on the Unite	d States Environmental Protection Age	ency Toxic Substances Control Act
Chemical(s) subject to the reporting read and 40 CFR Part 372.	equirements of Section 313 or Title III	of the Superfund Amendments and Re	authorization Act (SARA) of 1986
Diphenylmethane 4,4'-diisocyanate	CAS-No. 101-68-8	1 – 5%	
Diphenylmethane 4,4'-diisocyar	nate (101-68-8)		
Listed on EPA Hazardous Air Pollutar	it (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 (Domesti			

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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

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

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.