

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 9/28/2023 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
Product form: MixtureProduct name: 20-2355	CCL		
1.2. Recommended use and restrictions on use			
Recommended use: Potting ofRestrictions on use: Not to be	•	ose 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 www.epoxies.com			
1.4. Emergency telephone number			
Emergency number : Velocity	EHS: +1 (800) 255-	3924, +1 (813) 248-0585	
SECTION 2: Hazard(s) identification			
2.1. Classification of the substance or mixture			
GHS US classification			
Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2 Respiratory sensitization, Category 1	H315 H319 H334	Causes skin irritation Causes serious eye irritation May cause an allergy or asthma symptoms or breathing difficulties if inhaled	
Skin sensitization, Category 1 Reproductive toxicity Category 2 Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	H317 H361 H335	May cause an allergic skin reaction Suspected of damaging fertility or the unborn child May cause respiratory irritation	
Specific target organ toxicity (repeated exposure) Category 1	H372	Causes damage to organs through prolonged or repeated exposure	
Hazardous to the aquatic environment – Acute Hazard Category Hazardous to the aquatic environment – Chronic Hazard Catego Full text of H statements : see section 16		Toxic to aquatic life Toxic to aquatic life with long lasting effects	

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US)

Signal word (GHS US) Hazard statements (GHS US)



: Danger

: H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

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

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 H411 - Toxic to aquatic life with long lasting effects Precautionary statements (GHS US) P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P266 - Do not breathe dustfume(gas/mist/vapors/spray.) P261 - Avoid breating dustfume(gas/mist/vapors/spray.) P264 - Wash hands, forearms and face thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P271 - Use only outdoors or in a well-wentilated area. P272 - Contaminated work clothing must not be allowed out of the workplace. P273 - Avoid release to the environment. P280 - Waar protective gloves/protective clothing/eye protection/face protection. P284 - [In case of inadequate ventilation] wear respiratory protection. P294 - S10 - S10		H335 - May cause respiratory irritation H361 - Suspected of damaging fertility or the unborn child H372 - Causes damage to organs through prolonged or repeated exposure H401 - Toxic to aquatic life
 P261 - Avoid breathing dust/fume/gas/mist/vapors/spray. P264 - Wash hands, forearms and face thoroughly direr handling. P270 - Do not eat, drink or smoke when using this product. P271 - Use only outdoors or in a well-ventilated area. P272 - Contaminated work clothing must not be allowed out of the workplace. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P284 - [In case of inadequate ventilation] wear respiratory protection. P284 - [In case of inadequate ventilation] wear respiratory protection. P284 - [In case of inadequate ventilation] wear respiratory protection. P304+P340 - I finhaled: Remove person to fresh air and keep comfortable for breathing. P304+P341 - If inhaled: Remove person to fresh air and keep comfortable for breathing. P3054+P335 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304+P343 - If exposed or concerned: Get medical advice/attention. P312 - Call a poison center or doctor if you feel unwell. P314 - Get medical advice/attention if you feel unwell. P321 - Specific treatment (see supplemental first aid instruction on this label). P33+P313 - If skin irritation occurs: Get medical advice/attention. P33+P313 - If skin irritation or rash occurs: Get medical advice/attention. P33+P313 - If skin irritation presists: Get medical advice/attention. P342+P313 - If experiencing respiratory symptoms: Call a poison center or doctor. P362+P364 - Take off contaminated clothing and wash it before reuse. P363 - Wash contaminated clothing before reuse. P364 - Store in a well-ventilated place. Keep container tightly closed. P405 - Store iocked up. P501 - Dispose of contents/container to hazardous or special waste collecti	Precautionary statements (GHS US)	 P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood.
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 P284 - [In case of inadequate ventilation] wear respiratory protection. P302+P352 - If on skin: Wash with plenty of water. P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing. P304+P341 - If inhaled: If breathing is difficult, remove person to fresh air and keep 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. P308+P313 - If exposed or concerned: Get medical advice/attention. P312 - Call a poison center or doctor if you feel unwell. P314 - Get medical advice/attention if you feel unwell. P321 - Specific treatment (see supplemental first aid instruction on this label). P332+P313 - If skin irritation occurs: Get medical advice/attention. P332+P313 - If skin irritation or rash occurs: Cet medical advice/attention. P342+P311 - If experiencing respiratory symptoms: Call a poison center or doctor. P362+P364 - Take off contaminated clothing and wash it before reuse. P363 - Wash contaminated clothing before reuse. P363 - Store locked up. P403+P233 - Store in a well-ventilated place. Keep container tightly closed. 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. 		P272 - Contaminated work clothing must not be allowed out of the workplace.
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		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

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3.2. Mixtures

Name	Product identifier	%	GHS US classification
Dicyclohexylmethane-4,4'-Diisocyanate	CAS-No.: 5124-30-1	≥ 60	Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Inhalation:gas), H331 Acute Tox. 2 (Inhalation:dust,mist), H330 Skin Irrit. 2, H315 Eye Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Repr. 2, H361 STOT SE 3, H335 STOT RE 1, H372 Aquatic Acute 2, H401 Aquatic Chronic 2, H411

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 ts : see section 16

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

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. Call a poison center/doctor/physician if you feel unwell.
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 cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
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 respiratory irritation. May cause an allergy or asthma symptoms or breathing difficulties if inhaled.
Symptoms/effects after skin contact Symptoms/effects after eye contact	Irritation. May cause an allergic skin reaction.Eye irritation.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures		
5.1. Suitable (and unsuitable) extinguishin	g 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.		

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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 releas	e measures
SECTION 6: Accidental releas 6.1. Personal precautions, protec	tive equipment and emergency procedures

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		
For containment	: Collect spillage.	
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.	
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 Hygiene measures	 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. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. 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 container tightly closed. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

20-2355CCL

No additional information available

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Dicyclohexylmethane-4,4'-Diisocyanate (5124-30-1)		
USA - ACGIH - Occupational Exposure Limits		
Local name	Methylene bis(4-cyclohexylisocyanate)	
ACGIH OEL TWA [ppm]	0.005 ppm	
Remark (ACGIH)	TLV® Basis: Resp sens; LRT irr	
Regulatory reference	ACGIH 2022	
8.2. Appropriate engineering controls		
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 Color	: Liquid : According to product specification
Odor	: Mild odour
Odor threshold	: No data available
рН	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
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
Solubility	: No data available

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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	: No data available
Explosion limits	: No data available
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 : Not classified Acute toxicity (dermal) Acute toxicity (inhalation) : Not classified Dicyclohexylmethane-4,4'-Diisocyanate (5124-30-1) LD50 oral rat 17000 mg/kg Source: ECHA LD50 oral 9900 mg/kg LD50 dermal rabbit > 7000 mg/kg Source: ECHA LD50 dermal 10000 mg/kg LC50 Inhalation - Rat 434 mg/m³ Source: ECHA LC50 Inhalation - Rat (Dust/Mist) 0.434 mg/l/4h ATE US (oral) 9900 mg/kg body weight ATE US (dermal) 10000 mg/kg body weight

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Dicyclohexylmethane-4,4'-Diisocyanate	(5124-30-1)		
ATE US (gases)	700 ppmV/4h		
ATE US (vapors)	0.434 mg/l/4h		
ATE US (dust, mist)	0.434 mg/l/4h		
Skin corrosion/irritation	: Causes skin irritation.		
Serious eye damage/irritation	: Causes serious eye irritation.		
Respiratory or skin sensitization	: May cause an allergy or asthma symptoms or breathing difficulties if inhaled. May cause an		
	allergic skin reaction.		
Germ cell mutagenicity	: Not classified		
Carcinogenicity	: Not classified		
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.		
STOT-single exposure	: May cause respiratory irritation.		
Dicyclohexylmethane-4,4'-Diisocyanate	(5124-30-1)		
STOT-single exposure	May cause respiratory irritation.		
STOT-repeated exposure	: Causes damage to organs through prolonged or repeated exposure.		
Dicyclohexylmethane-4,4'-Diisocyanate	(5124-30-1)		
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.		
Aspiration hazard	: Not classified		
Viscosity, kinematic	: No data available		
Dicyclohexylmethane-4,4'-Diisocyanate	Dicyclohexylmethane-4,4'-Diisocyanate (5124-30-1)		
Viscosity, kinematic	46728.972 mm²/s		
Symptoms/effects after inhalation	: May cause respiratory irritation. May cause an allergy or asthma symptoms or breathing		
	difficulties if inhaled.		
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.		
Symptoms/effects after eye contact	: Eye irritation.		

SECTION 12: Ecological information

12.1. Toxicity			
Ecology - general :	Toxic to aquatic life. Toxic to aquatic life with long lasting effects.		
Dicyclohexylmethane-4,4'-Diisocyanate (5124-30-1)			
LC50 - Fish [1]	1.2 mg/l Source: EHCA		
EC50 72h - Algae [1]	> 5 mg/l Source: EHCA		
NOEC chronic algae	0.31 mg/l		
12.2. Persistence and degradability Dicyclohexylmethane-4,4'-Diisocyanate (5124-30-1)			
Not rapidly degradable			
Persistence and degradability Not readily biodegradable in water.			
12.3. Bioaccumulative potential			
Dicyclohexylmethane-4,4'-Diisocyanate (5124-30-1)			
Partition coefficient n-octanol/water (Log Pow)	2.14		

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Dicyclohexylmethane-4,4'-Diisocyanate (5124-30-1)		
Bioaccumulative potential No bioaccumulation data available.		
12.4. Mobility in soil		
No additional information available		
12.5. Other adverse effects	12.5. Other adverse effects	
No additional information available		

SECTION 13: Disposal considerat	tions
13.1. Disposal methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
SECTION 14: Transport information	on

In accordance with DOT / TDG / IMDG / IATA	
14.1. UN number	
DOT NA No UN-No. (TDG) UN-No. (IMDG) UN-No. (IATA)	: UN3263 : UN3263 : 3263 : 3263
14.2. UN proper shipping name Proper Shipping Name (DOT)Proper Shipping Name (TDG)Proper Shipping Name (IMDG)Proper Shipping Name (IATA)	 Corrosive solid, basic, organic, n.o.s. (Dicyclohexylmethane-4,4'-Diisocyanate)

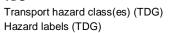
14.3. Transport hazard class(es)

DOT Transport hazard class(es) (DOT)

Hazard labels (DOT)



TDG





: 8 : 8

IMDG

Transport hazard class(es) (IMDG)		
Hazard labels (IMDG)		

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IATA Transport hazard class(es) (IATA) Hazard labels (IATA)	E B E B E B E B	
14.4. Packing group	• •	
Packing group (DOT)	: [
Packing group (DOT) Packing group (TDG)		
Packing group (IMDG)		
Packing group (IATA)	:1	
14.5. Environmental hazards		
Dangerous for the environment	: Yes	
Marine pollutant	: Yes	
Other information	: No supplementary information available.	
14.6. Special precautions for user		
DOT UN-No.(DOT)	: UN3263	
DOT Special Provisions (49 CFR 172.102)	 IB7 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Wooden (11C, 11D and 11F). Additional Requirement: Liners of wooden IBCs must be sift- proof. IP1 - IBCs must be packed in closed freight containers or a closed transport vehicle. T6 - 4 178.274(d)(2) Normal	
DOT Packaging Non Bulk (49 CFR 173.xxx)	accordance with the applicable requirements of this subchapter. : 211	
DOT Packaging Bulk (49 CFR 173.xxx)	: 242	
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)		
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 25 kg	

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DOT Vessel Stowage Location	: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this		
DOT Vessel Stowage Other	section is exceeded. : 52 - Stow "separated from" acids		
TDG			
UN-No. (TDG) TDG Special Provisions	 UN3263 16 - (1) The technical name of at least one of the most dangerous substances that predominantly contributes to the hazard or hazards posed by the dangerous goods must be shown, in parentheses, on the shipping document following the shipping name in accordance with clause 3.5(1)(c)(ii)(A) of Part 3 (Documentation). The technical name must also be shown, in parentheses, on a small means of containment or on a tag following the shipping name in accordance with subsections 4.11(2) and (3) of Part 4 (Dangerous Goods Safety Marks). 		
	(2) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a shipping document or on a small means of containment when Canadian law for domestic transport or an international convention for international transport prohibits the disclosure of the technical name:		
	 (a) UN1544, ALKALOID SALTS, SOLID, N.O.S. or ALKALOIDS, SOLID, N.O.S; (b) UN1851, MEDICINE, LIQUID, TOXIC, N.O.S; (c) UN3140, ALKALOID SALTS, LIQUID, N.O.S. or ALKALOIDS, LIQUID, N.O.S; 		
	 (d) UN3248, MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S; or (e) UN3249, MEDICINE, SOLID, TOXIC, N.O.S. (3) Despite subsection (1), the technical name for the following dangerous goods is not required 		
	to be shown on a small means of containment: (a) UN2814, INFECTIOUS SUBSTANCE, AFFECTING HUMANS; or (b) UN2900, INFECTIOUS SUBSTANCE, AFFECTING ANIMALS.		
Explosive Limit and Limited Quantity Index	: 0		
Excepted quantities (TDG)	: E0		
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index	: 1 kg		
Emergency Response Guide (ERG) Number	: 154		
IMDG			
Special provision (IMDG)	: 274		
Limited quantities (IMDG) Excepted quantities (IMDG)	: 0 : E0		
Packing instructions (IMDG)	: P002		
IBC packing instructions (IMDG)	: IBC07		
IBC special provisions (IMDG)	: B1		
Tank instructions (IMDG)	: T6		
Tank special provisions (IMDG)			
EmS-No. (Fire)	: F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE		
EmS-No. (Spillage) Stowage category (IMDG)	: S-B - SPILLAGE SCHEDULE Bravo - CORROSIVE SUBSTANCES : B		
Segregation (IMDG)	: SGG18, SG35		
Properties and observations (IMDG)	: Reacts violently with acids. Causes burns to skin, eyes and mucous membranes.		
ΙΑΤΑ			
PCA Excepted quantities (IATA)	: E0		
PCA Limited quantities (IATA)	: Forbidden		
PCA limited quantity max net quantity (IATA) PCA packing instructions (IATA)	: Forbidden		
PCA packing instructions (IATA) PCA max net quantity (IATA)	: 858 : 1kg		
CAO packing instructions (IATA)	: 862		
CAO max net quantity (IATA)	: 25kg		
Special provision (IATA)	: A3, A803		
Special provision (IATA)	: A3, A803		

ERG code (IATA)

: 8L

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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.				
Dicyclohexylmethane-4,4'-Diisocyanate CAS-No. 5124-30-1 ≥ 60%				
15.2. International regulations				

CANADA

		Dicyclohex	ylmethane-4	4'-Diisoc	vanate ((5124-30-1)	
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Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

Dicyclohexylmethane-4,4'-Diisocyanate (5124-30-1)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

Component	State or local regulations
Dicyclohexylmethane-4,4'-Diisocyanate(5124-30-1)	U.S New Jersey - Right to Know Hazardous Substance List; U.S New York City - Right to Know Hazardous Substances List; U.S Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

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Full text of I	Full text of H-phrases	
H315	H315 Causes skin irritation	
H317	May cause an allergic skin reaction	
H319	Causes serious eye irritation	
H330	Fatal if inhaled	
H331	Toxic if inhaled	
H334	May cause an allergy or asthma symptoms or breathing difficulties if inhaled	

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Full text of H-phr	Full text of H-phrases	
H335	May cause respiratory irritation	
H361	Suspected of damaging fertility or the unborn child	
H372	Causes damage to organs through prolonged or repeated exposure	
H401	Toxic to aquatic life	
H411	Toxic to aquatic life with long lasting effects	

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.