

Safety Data Sheet

according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 11/08/2014

Revision date:

Version: 1.0

EC-1404

1.1.	Product identifier	of the substance/mixture and of the company/undertaking
Product for		: Mixtures
Product n		: 3,3',4,4'-TETRACB (PCB-77) (13C12, 99%) 40+/-2 UG/ML IN NONANE
Product of		: EC-1404
1.2.		of the substance or mixture and uses advised against
1.2.1.	Relevant identified uses	
Industrial	/Professional use spec	: For professional use only.
1.2.2.	Uses advised against	
No additi	onal information available	
1.3.	Details of the supplier of	the safety data sheet
	ge Isotope Laboratories, Inc	
50 Fronta	age Road	
Andover, USA	MA 01810	
	300-322-1174 Int: 1-978-7	749-8000
	isotope.com www.isotop	
	Emergency telephone nu	umber
Emergen	cy numbers:	
	c: 1-800-424-9300 (24 hou	
nternatio	onal: 1-202-483-7616 (24 h	nours)
SECTIO	ON 2: Hazards identi	fication
2.1.	Classification of the sub	stance or mixture
	ation according to Regula	ation (EC) No. 1272/2008 [CLP]
Classific		
	. 3	H226
Flam. Liq	i. 3 x. 4 (Inhalation:dust,mist)	
Flam. Liq Acute To:	x. 4 (Inhalation:dust,mist)	
Flam. Liq Acute To: Skin Irrit.	x. 4 (Inhalation:dust,mist) 2	H332
Flam. Liq Acute To: Skin Irrit. Eye Irrit. :	x. 4 (Inhalation:dust,mist) 2 2	H332 H315
Flam. Liq Acute To: Skin Irrit. Eye Irrit. 3 STOT SE	x. 4 (Inhalation:dust,mist) 2 2 3	H332 H315 H319
Flam. Liq Acute To: Skin Irrit. Eye Irrit. 3 STOT SE Asp. Tox.	x. 4 (Inhalation:dust,mist) 2 2 3	H332 H315 H319 H336 H304
Flam. Liq Acute To: Skin Irrit. Eye Irrit. STOT SE Asp. Tox. Full text o	x. 4 (Inhalation:dust,mist) 2 2 3 1 of H-phrases: see section 1	H332 H315 H319 H336 H304 6
Flam. Liq Acute To: Skin Irrit. Eye Irrit. 2 STOT SE Asp. Tox. Full text c Classific	x. 4 (Inhalation:dust,mist) 2 2 3 1 of H-phrases: see section 1	H332 H315 H319 H336 H304
Flam. Liq Acute To: Skin Irrit. Eye Irrit. 3 STOT SE Asp. Tox. Full text o Classific Xn; R20	x. 4 (Inhalation:dust,mist) 2 2 3 1 of H-phrases: see section 1	H332 H315 H319 H336 H304 6
Flam. Liq Acute To: Skin Irrit. Eye Irrit. S STOT SE Asp. Tox. Full text o	x. 4 (Inhalation:dust,mist) 2 2 3 1 of H-phrases: see section 1	H332 H315 H319 H336 H304 6
Flam. Liq Acute To: Skin Irrit. Eye Irrit. S STOT SE Asp. Tox. Full text of Classific Xn; R20 Xn; R65 R10	x. 4 (Inhalation:dust,mist) 2 2 3 1 of H-phrases: see section 1	H332 H315 H319 H336 H304 6 ive 67/548/EEC or 1999/45/EC
Flam. Liq Acute To: Skin Irrit. Eye Irrit. 2 STOT SE Asp. Tox. Full text of Classific Xn; R20 Xn; R65 R10 Full text of	x. 4 (Inhalation:dust,mist) 2 2 3 of H-phrases: see section 1 ration according to Direct of R-phrases: see section 1	H332 H315 H319 H336 H304 6 ive 67/548/EEC or 1999/45/EC
Flam. Liq Acute To: Skin Irrit. Eye Irrit. 2 STOT SE Asp. Tox. Full text of Classific Xn; R20 Xn; R65 R10 Full text of	x. 4 (Inhalation:dust,mist) 2 2 3 of H-phrases: see section 1 cation according to Direct of R-phrases: see section 1 cation (GHS-US)	H332 H315 H319 H336 H304 6 ive 67/548/EEC or 1999/45/EC

STOT SE 3 H336 Asp. Tox. 1 H304

Adverse physicochemical, human health and environmental effects Central Nervous System.

H315

H319

Skin Irrit. 2

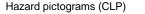
Eye Irrit. 2A

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Label elements 2.2.

Labeling according to Regulation (EC) No. 1272/2008 [CLP]



Signal word (CLP)	
Hazardous ingredients	
Hazard statements (CLP)	

Precautionary statements (CLP)

: Danger

- : N-NONANE UNLABELED

GHS02

- H226 Flammable liquid and vapor
- H304 May be fatal if swallowed and enters airways

GHS07

- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H332 Harmful if inhaled
- H336 May cause drowsiness or dizziness
- : P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

GHS08

- P233 Keep container tightly closed
- P240 Ground/bond container and receiving equipment
- P241 Use explosion-proof electrical, lighting, ventilating equipment
- P261 Avoid breathing dust, fume, gas, mist, spray, vapors
- P264 Wash Both hands thoroughly after handling
- P271 Use only outdoors or in a well-ventilated area
- P280 Wear protective clothing, protective gloves

GHS-US labeling

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

Precautionary statements (GHS-US)



GHS07 GHS08

: Danger

GHS02

- : H226 Flammable liquid and vapor
- H304 May be fatal if swallowed and enters airways
- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H332 Harmful if inhaled
- H336 May cause drowsiness or dizziness
- 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 dust, fume, gas, mist, spray, vapors
- P264 Wash Both hands thoroughly after handling
- P271 Use only outdoors or in a well-ventilated area
- P280 Wear protective clothing, protective gloves
- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
 - P302+P352 IF ON SKIN: Wash with plenty of soap and water
 - P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
 - P304+P340 IF INHALED: Remove victim 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/doctor/physician if you feel unwell
- P321 Specific treatment (see Hazard pictograms (CLP) on this label)
- P331 If swallowed, 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 Take off contaminated clothing and wash before reuse
- P370+P378 In case of fire: Use Alcohol resistant foam., Carbon dioxide., Dry chemical., Water spray for extinction
- P403+P233 Store in a well-ventilated place. Keep container tightly closed

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P405 - Store locked up

P501 - Dispose of contents/container to Comply with applicable regulations.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

- Not applicable
- 3.2. Mixtures

Name	Product identifier	%	Classification according to Directive 67/548/EEC
N-NONANE UNLABELED	(CAS No) 111-84-2 (Unlabeled) (EC no) 203-913-4	99.9944	R10 Xn; R20 Xn; R65 R67
3,3',4,4'-TETRACB (PCB-77) (13C12, 99%)	(CAS No) 105600-23-5 (EC index no) 602-039-00-4	0.0056	Xn; R48/20 N; R50/53
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
N-NONANE UNLABELED	(CAS No) 111-84-2 (Unlabeled) (EC no) 203-913-4	99.9944	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H336 Asp. Tox. 1, H304
3,3',4,4'-TETRACB (PCB-77) (13C12, 99%)	(CAS No) 105600-23-5 (EC index no) 602-039-00-4	0.0056	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Name	Product identifier	%	Classification (GHS-US)
N-NONANE UNLABELED	(CAS No) 111-84-2 (Unlabeled)	99.9944	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H336 Asp. Tox. 1, H304

Full text of R-, H- and EUH-phrases: see section 16

SECTION 4: First aid measures		
4.1. Description of first aid measures		
First-aid measures general	: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.	
First-aid measures after inhalation	 Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell. 	
First-aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Gently wash with plenty of soap and water.	
First-aid measures after eye contact	: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.	
First-aid measures after ingestion	: Immediately call a POISON CENTER or doctor/physician.	
4.2. Most important symptoms and effect	cts, both acute and delayed	
Symptoms/injuries after inhalation	: Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled. May cause drowsiness or dizziness.	
Symptoms/injuries after skin contact	: Causes skin irritation.	
Symptoms/injuries after eye contact	: Causes eye irritation.	
Symptoms/injuries after ingestion	: May be fatal if swallowed and enters airways.	
4.3. Indication of any immediate medica	l attention and special treatment needed	
No additional information available		
SECTION 5: Firefighting measures		
5.1. Extinguishing media		
suitable extinguishing media	: Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.	

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5.2. Special hazards arising from the su	bstance or mixture
Fire hazard	: Flammable liquid and vapor.
Explosion hazard	: May form flammable/explosive vapor-air mixture.
Reactivity	: Vapors may form explosive mixture with air.
5.3. Advice for firefighters	
Firefighting instructions	: Use water spray to cool unopened containers.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release mea	sures
6.1. Personal precautions, protective eq	uipment and emergency procedures
General measures	: Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking.
6.1.1. For non-emergency personnel	
Emergency procedures	: Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
6.1.2. For emergency responders	
Protective equipment	: Avoid breathing dust, mist or spray.
6.2. Environmental precautions	Do not let product enter draine
Prevent further leakage or spillage if safe to do s	· ·
6.3. Methods and material for containme	
For containment	: Contain spillage, then collect with non-combustible absorbent material. Disposal should be in accordance with applicable Federal, State and local regulations.
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	. Han all a second a second data with some han second and the hand second and the second hand s
Additional hazards when processed	: Handle empty containers with care because residual vapors are flammable.
Precautions for safe handling	: No naked lights. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Use only outdoors or in a well-ventilated area.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
7.2. Conditions for safe storage, includi	ng any incompatibilities
Technical measures	: Proper grounding procedures to avoid static electricity should be followed. Ground/bond
	container and receiving equipment. Use explosion-proof electrical equipment.
Storage conditions	: Store at room temperature away from light and moisture.
Incompatible materials	: Heat sources.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/pers	onal protection
8.1. Control parameters	
N-NONANE UNLABELED (111-84-2 (Unlabe	led))
Italy - Portugal - USA ACGIH ACGIH TWA (··
	impairment.
8.2. Exposure controls	
Personal protective equipment	: Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.
Hand protection	: Wear suitable protective clothing and gloves.
Eye protection	: Wear safety glasses with side shields (or goggles) and a face shield.
Skin and body protection	: Wear suitable protective clothing.
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Respiratory protection

: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and o	chemical properties		
The properties listed below are for the solvent, the main component of this mixture.			
Physical state	: Liquid		
Appearance	: Liquid.		
Molecular mass	: 128.3		
Color	: No data available.		
Odor	: No data available		
Odor threshold	: No data available		
рН	: No data available		
Relative evaporation rate (butyl acetate=1)	: No data available		
Melting point	: -53 °C (- 63 °F) - lit		
Freezing point	: No data available		
Boiling point	: 151 °C (304 °F) - lit		
Flash point	: 31.0 °C (87.8 °F) - closed cup		
Self ignition temperature	: 205 °C (401 °F)		
Decomposition temperature	: No data available		
Flammability (solid, gas)	: Flammable liquid and vapor		
Vapor pressure	: 12.4 hPa (9.3 mmHg) at 37.7 °C (99.9 °F)		
Relative vapor density at 20 °C	: No data available		
Relative density	: No data available		
Solubility	: Water: 0 %		
Log Pow	: 5.65		
Log Kow	: No data available		
Viscosity, kinematic	: No data available		
Viscosity, dynamic	: No data available		
Explosive properties	: No data available		
Oxidizing properties	: No data available		
Explosive limits	: 0.87 - 2.9 % (V)		

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity		
10.1. Reactivity		
Vapors may form explosive mixture with air.		
10.2. Chemical stability		
See storage and expiration date on CoA.		
10.3. Possibility of hazardous reactions		
No additional information available		
10.4. Conditions to avoid		
Open flame. Overheating. Direct sunlight. Heat. Sp	parks.	
10.5. Incompatible materials		
Strong oxidizing agents.		
10.6. Hazardous decomposition products		
May release flammable gases.		
SECTION 11: Toxicological information		
11.1. Information on toxicological effects		
Acute toxicity :	: Harmful if inhaled.	
3,3',4,4'-TETRACB (PCB-77) (13C12, 99%) 40+/-2 UG/ML IN NONANE		
LC50 inhalation rat (ppm)	3200 ppm/4h	
ATE (dust, mist)	1.500 mg/l/4h	

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N-NONANE UNLABELED (111-84-2 (Unlabeled))		
LC50 inhalation rat (ppm)	3200 ppm/4h	
ATE (dust, mist)	1.500 mg/l/4h	
Skin corrosion/irritation	: Causes skin irritation.	
	Skin - rat - Skin irritation - Draize test	
Serious eye damage/irritation	: Causes serious eye irritation.	
	No data available	
Respiratory or skin sensitization	: Not available	
	No data available	
Germ cell mutagenicity	: Not available	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not available	
Specific target organ toxicity (single exposure)	: May cause drowsiness or dizziness.	
	May cause drowsiness or dizziness.	
Specific target organ toxicity (repeated	: Not classified	
exposure)	No data available	
Aspiration hazard	: May be fatal if swallowed and enters airways.	
Potential Adverse human health effects and symptoms	: Harmful if inhaled.	
Symptoms/injuries after inhalation	: Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled. May cause drowsiness or dizziness.	
Symptoms/injuries after skin contact	: Causes skin irritation.	
Symptoms/injuries after eye contact	: Causes eye irritation.	
Symptoms/injuries after ingestion	: May be fatal if swallowed and enters airways.	

SECTION 12: Ecological information

Toxicity 12.1.

3,3',4,4'-TETRACB (PCB-77) (13C12, 99%) (105600-23-5)			
LC50 fish 1	Pimephales promelas (fathead minnow) - 96 h		
EC50 Daphnia 1	Daphnia magna (Water flea) - 48 h		
NOEC (chronic)	0.1 mg/l Oncorhynchus mykiss (rainbow trout) - 7 d		
12.2. Persistence and degradability			
3,3',4,4'-TETRACB (PCB-77) (13C12, 99%) 4	0+/-2 UG/ML IN NONANE		
Persistence and degradability	Not available.		
N-NONANE UNLABELED (111-84-2 (Unlabel	ed))		
Persistence and degradability	Not available.		
3,3',4,4'-TETRACB (PCB-77) (13C12, 99%) (1	05600-23-5)		
Persistence and degradability	Not available.		
12.3. Bioaccumulative potential			
3,3',4,4'-TETRACB (PCB-77) (13C12, 99%) 4	0+/-2 UG/ML IN NONANE		
Log Pow	5.65		
Bioaccumulative potential			
N-NONANE UNLABELED (111-84-2 (Unlabeled))			
Log Pow	5.65		
Bioaccumulative potential	Indication of bioaccumulation.		
3,3',4,4'-TETRACB (PCB-77) (13C12, 99%) (105600-23-5)			
Bioaccumulative potential	Bioaccumulation: Oryzias latipes - 20 d Bioconcentration factor (BCF): 81.5.		
12.4. Mobility in soil			
3,3',4,4'-TETRACB (PCB-77) (13C12, 99%) 40+/-2 UG/ML IN NONANE			
Ecology - soil	Not available.		

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N-NONANE UNLABELED (111-84-2 (Unlabe	"
Ecology - soil	Not available.
3,3',4,4'-TETRACB (PCB-77) (13C12, 99%) (105600-23-5)
Ecology - soil	Not available.
12.5. Results of PBT and vPvB assessme	ent
No additional information available	
12.6. Other adverse effects	
Other adverse effects	: An environmental hazard cannot be excluded in the event of unprofessional handling or dispos
	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environmen
SECTION 13: Disposal consideratio	ns
13.1. Waste treatment methods	
Regional legislation (waste)	: Waste materials should be disposed of under conditions which meet Federal, State, and Local
	environmental control regulations.
Waste disposal recommendations	: Dispose of contents/container to Comply with applicable regulations.
Additional information	: Handle empty containers with care because residual vapors are flammable.
Ecology - waste materials	: Hazardous waste due to toxicity.
SECTION 14: Transport information	
In accordance with ADR / RID / ADNR / IMDG /	
14.1. UN number	
UN-No.(DOT)	: 1920
DOT NA no.	UN1920
14.2. UN proper shipping name	Manage
DOT Proper Shipping Name	: Nonanes
Department of Transportation (DOT) Hazard Classes	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Hazard labels (DOT)	: 3 - Flammable liquid
Packing group (DOT)	: III - Minor Danger
DOT Special Provisions (49 CFR 172.102)	 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 liquid with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 5 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Tabl 2 for UN2672). T2 - 1.5 178.274(d)(2) Normal
	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)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 242
14.2 Additional information	
14.3. Additional information Other information	: No supplementary information available.
Overland transport	
Overland transport Packing group (ADR)	: 111
Class (ADR)	: 11 : 3 - Flammable liquid
Hazard identification number (Kemler No.)	: 30
Classification code (ADR)	. 30 : F1
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Danger labels (ADR)	: 3 - Flammable liquids
Orange plates	30 1920
Tunnel restriction code	: D/E
Limited quantities (ADR)	5L
EAC	: 3Y
Excepted quantities (ADR)	: E1
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.
MFAG-No	: 128
Air transport	
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 60 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 220 L
Civil Aeronautics Law	: Flammable liquids
14.4. Environmental hazards	
Other information	: No supplementary information available.
14.5. Special precautions for user	
14.6. Transport in bulk according to Anne	x II of MARPOL 73/78 and the IBC Code
Not applicable	
SECTION 15: Regulatory information	

SECTION 15: Regulatory mornation			
15.1. US Federal regulations			
3,3',4,4'-TETRACB (PCB-77) (13C12, 99%) 40+/-2 UG/ML IN NONANE			
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard		
N-NONANE UNLABELED (111-84-2 (Unlabeled	(1)		
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard		

15.2. International regulations

CANADA		
3,3',4,4'-TETRACB (PCB-77) (13C12, 99%) 40+/-2 UG/ML IN NONANE	ML IN NONANE	
Listed on the Canadian DSL (Domestic Substances List) inventory.	Т	

15.2.1. National regulations

No additional information available

15.3. US State regulations

3,3',4,4'-TETRACB (PCB-77) (13C12, 99%) 40+/-2 UG/ML IN NONANE()	
State or local regulations	U.S Massachusetts - Right To Know List U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List This product does not contain any chemicals known to State of California to cause cancer,

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3,3',4,4'-TETRACB (PCB-77) (13C12, 99%) 40+/-2 UG/ML IN NONANE()

birth defects, or any other reproductive harm.

N-NONANE UNLABELED (111-84-2 (Unlabeled))

U.S. - Massachusetts - Right To Know List U.S. - Pennsylvania - RTK (Right to Know) List

U.S. - New Jersey - Right to Know Hazardous Substance List

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16: Other information

Other information

: This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.

Full text of R-, H- and EUH-phrases::

· · · · · ·	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Asp. Tox. 1	Aspiration hazard Category 1
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Flam. Liq. 3	Flammable liquids Category 3
Skin Irrit. 2	skin corrosion/irritation Category 2
STOT RE 2	Specific target organ toxicity (repeated exposure) 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
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled
H336	May cause drowsiness or dizziness
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
R10	Flammable
R20	Harmful by inhalation
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R65	Harmful: may cause lung damage if swallowed
R67	Vapors may cause drowsiness and dizziness
N	Dangerous for the environment
Xn	Harmful

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 2 0 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

CIL Mixture SDS

Safety Data Sheet

according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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