

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: 04/06/2015

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CLM-6023-S

SECTION 1: Identification	of the substance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixtures
Product name.	: 4-METHYLUMBELLIFERONE (2,3,4,METHYL-13C4, 99%) 100 UG/ML IN ACETONITRILE
Product code	: CLM-6023-S
1.2. Relevant identified use	es of the substance or mixture and uses advised against
1.2.1. Relevant identified us	es
Industrial/Professional use spec	: For professional use only.
1.2.2. Uses advised against	
No additional information available	e
1.3. Details of the supplier	of the safety data sheet
Cambridge Isotope Laboratories, 50 Frontage Road Andover, MA 01810 USA	Inc.
	8-749-8000 tope.com
Emergency telephone	number
Emergency numbers:	
Chemtrec: 1-800-424-9300 (24 h International: 1-703-741-5970 (2	
SECTION 2: Hazards iden	tification
2.1. Classification of the s	ubstance or mixture
	ulation (EC) No. 1272/2008 [CLP]
Flam. Liq. 2	H225
Acute Tox. 4 (Oral)	H302
Acute Tox. 4 (Dermal)	H312
Acute Tox. 4 (Inhalation:dust,mist)	
Eye Irrit. 2	H319
Full text of H-phrases: see sectior	116
Classification according to Dire	active 67/548/EEC or 1999/45/EC
F; R11 Xn; R20/21/22 Xi; R36	
Full text of R-phrases: see section	n 16
Classification (GHS-US)	
Flam. Liq. 2 Acute Tox. 4 (Oral) Acute Tox. 4 (Dermal) Acute Tox. 4 (Inhalation:dust,mist)	H225 H302 H312) H332

Adverse physicochemical, human health and environmental effects Lungs, Blood, Kidney, Liver, Central nervous system.

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2.2. Label elements

2.2. Label elements	
Labeling according to Regulation (EC)	No. 1272/2008 [CLP]
Hazard pictograms (CLP)	HS02 GHS07
Signal word (CLP)	: Danger
Hazardous ingredients	: ACETONITRILE UNLABELED
Hazard statements (CLP)	 H225 - Highly flammable liquid and vapor H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled H319 - Causes serious eye irritation
Precautionary statements (CLP)	 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking P233 - Keep container tightly closed P240 - Ground/bond container and receiving equipment P241 - Use explosion-proof electrical, lighting, ventilating equipment P261 - Avoid breathing dust, gas, fume, mist, spray, vapors P264 - Wash Both hands thoroughly after handling P270 - Do no eat, drink or smoke when using this product P271 - Use only outdoors or in a well-ventilated area
GHS-US labeling	
Hazard pictograms (GHS-US)	

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

Precautionary statements (GHS-US)

GHS02 : Danger

- H225 Highly flammable liquid and vapor
- H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled H319 - Causes serious eye irritation
- : P210 Keep away from heat, hot surfaces, open flames, sparks. No smoking
 - P233 Keep container tightly closed
 - P240 Ground/bond container and receiving equipment

GHS07

- 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, gas, fume, spray, vapors, mist
- P264 Wash both hands thoroughly after handling
- P270 Do no eat, drink or smoke when using this product
- P271 Use only outdoors or in a well-ventilated area

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

P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell 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)
- P330 If swallowed, rinse mouth
- P337+P313 If eye irritation persists: Get medical advice/attention

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

P370+P378 - In case of fire: Use Alcohol resistant foam., Carbon dioxide., Dry chemical., Water spray for extinction

P403+P235 - Store in a well-ventilated place. Keep cool

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

2.3. Other hazards

No additional information available

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SECTION 3: Composition/information on ingredients

Substances 3.1.

Not applicable 2.2 841.

3.2. Mixtures			
Name	Product identifier	%	Classification according to Directive 67/548/EEC
ACETONITRILE UNLABELED	(CAS No) 75-05-8 (EC no) 200-835-2 (EC index no) 608-001-00-3	99.9873	F; R11 Xi; R36 Xn; R20/21/22
4-METHYLUMBELLIFERONE (2,3,4,METHYL-13C4, 99%)	(CAS No) 90-33-5 (unlabeled) (EC no) 201-986-7	0.0127	Xn; R22 Xi; R36/37/38
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
ACETONITRILE UNLABELED	(CAS No) 75-05-8 (EC no) 200-835-2 (EC index no) 608-001-00-3	99.9873	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2, H319
4-METHYLUMBELLIFERONE (2,3,4,METHYL-13C4, 99%)	(CAS No) 90-33-5 (unlabeled) (EC no) 201-986-7	0.0127	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
Name	Product identifier	%	Classification (GHS-US)
ACETONITRILE UNLABELED	(CAS No) 75-05-8	99.9873	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2A, H319

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 if necessary. Remove to fresh air.
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	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. Wash contaminated clothing before reuse.
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	: Rinse mouth. Call a POISON CENTER/doctor/physician if you feel unwell.
4.2. Most important symptoms and effe	cts, both acute and delayed
Symptoms/injuries after inhalation	: Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled.
Symptoms/injuries after skin contact	: Repeated exposure to this material can result in absorption through skin causing significant health hazard. Harmful in contact with skin.
Symptoms/injuries after eye contact	: Causes eye irritation.
Symptoms/injuries after ingestion	: Swallowing a small quantity of this material will result in serious health hazard.
4.3. Indication of any immediate medica	al 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.
5.2. Special hazards arising from the su	ibstance or mixture
Fire hazard	: Highly 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.

ction during firefighting	: Do not enter fire area without proper protective equipment,	, including respiratory

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SECTI	ON 6: Accidental release meas	u	ies	
6.1.	I. Personal precautions, protective equipment 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			
Emerger	icy 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			
No addit	onal information available			
6.2.	Environmental precautions			
Avoid re	ease to the environment.			
6.3.	Methods and material for containme	nt	and cleaning up	
For cont	ainment	:	Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet- brushing and place in container for disposal according to local regulations.	
6.4.	Reference to other sections			
No addit	onal information available			
SECTI	ON 7: Handling and storage			
7.1.	Precautions for safe handling			
Additiona	al hazards when processed	:	Handle empty containers with care because residual vapors are flammable.	
Precauti	ons for safe handling	:	No naked lights. No smoking. Use only non-sparking tools. Use only outdoors or in a well- ventilated area. Avoid breathing dust, mist or spray.	
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, including	ıg a	any incompatibilities	
Technica	Il 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.	
Incompa	tible materials	:	Heat sources.	
7.3.	Specific end use(s)			
No addit	onal information available			
SECTI	ON 8. Exposure controls/pors	h	al protection	

SECTION 8. Exposure C				
3.1. Control parameters				
4-METHYLUMBELLIFERONE (2,3,4,METHYL-13C4, 99%) 100 UG/ML IN ACETONITRILE				
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	20.0000000000 ppm Lower Respiratory Tract irritation. Not classifiable as a human carcinogen.		
ACETONITRILE UNLABELED (75-05-8)				
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	20.0000000000 ppm Lower Respiratory Tract irritation. Not classifiable as a human carcinogen.		
USA OSHA	OSHA PEL (TWA) (ppm)	40.000000000 ppm		
USA OSHA	OSHA PEL (STEL) (ppm)	60.000000000 ppm		

8.2. Exposure controls

Personal protective equipment

: Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.



Hand protection Eye protection Skin and body protection Respiratory protection

- : Wear suitable protective clothing and gloves.
- : Wear safety glasses with side shields (or goggles) and a face shield.
- : Wear suitable protective clothing.
- : Wear approved mask.

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SECTION 9: Physical and chemical properties			
9.1. Information on basic physical and chemical properties			
The properties listed below are for the solvent, the main component of this mixture.			
Physical state	: Liquid		
Appearance	: Liquid, clear.		
Molecular mass	: 41.05		
Color	: Colourless.		
Odor	: ether-like.		
Odor threshold	: No data available		
рН	: No data available		
Relative evaporation rate (butyl acetate=1)	: No data available		
Melting point	: -48 °C (-54°F)		
Freezing point	: No data available		
Boiling point	: 81 - 82 °C (178 - 180 °F)		
Flash point	: 2.0 °C (35.6 °F) - closed cup		
Self ignition temperature	: 523 °C (973 °F)		
Decomposition temperature	: No data available		
Flammability (solid, gas)	: Highly flammable liquid and vapor		
Vapor pressure	:73.18 hPa (54.89 mmHg) at 15°C (59 °F), 119.81 hPa (89.86 mmHg) at 25°C(77 °F)		
Relative vapor density at 20 °C	: 1.42 - (Air = 1.0)		
Relative density	: No data available		
Density	: 0.786 g/ml		
Solubility	: Water: 100 %		
Log Pow	: -0.34		
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	: 4.4 - 16 vol %		
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. Direct sunlight.

10.5. Incompatible materials

Acids, Bases, Oxidizing agents, Reducing agents, Alkali metals.

10.6. Hazardous decomposition products

May release flammable gases.

SECTION 11: Toxicological information			
11.1. Information on toxicological effects	S		
Acute toxicity	: Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled.		
4-METHYLUMBELLIFERONE (2,3,4,METHYL-13C4, 99%) 100 UG/ML IN ACETONITRILE			
LD50 oral rat	2460 mg/kg		
LD50 dermal rabbit	2000 mg/kg		
LC50 inhalation rat (mg/l)	≥ 26.8 mg/l		
LC50 inhalation rat (ppm)	7551 ppm - 8h		

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4-METHYLUMBELLIFERONE (2,3,4,METHYL	-13C4, 99%) 100 UG/ML IN ACETONITRILE		
ATE (oral)	500.000 mg/kg body weight		
ATE (dermal)	1100.000 mg/kg body weight		
ATE (gases)	4500.000 ppmV/4h		
ATE (vapors)	11.000 mg/l/4h		
ATE (dust, mist)	1.500 mg/l/4h		
ACETONITRILE UNLABELED (75-05-8)			
LD50 oral rat	2460 mg/kg		
LD50 dermal rabbit	2000 mg/kg		
LC50 inhalation rat (mg/l)	≥ 26.8 mg/l		
LC50 inhalation rat (ppm)	7551 ppm - 8h		
ATE (oral)	500.000 mg/kg body weight		
ATE (dermal)	2000.000 mg/kg body weight		
ATE (gases)	4500.000 ppmV/4h		
ATE (vapors)	11.000 mg/l/4h		
ATE (dust, mist)	1.500 mg/l/4h		
4-METHYLUMBELLIFERONE (2,3,4,METHYL	-13C4. 99%) (90-33-5 (unlabeled))		
LD50 oral rat	3850 mg/kg		
ATE (oral)	3850.000 mg/kg body weight		
Skin corrosion/irritation	: Not classified		
Skin conosion/initation	Skin - rabbit - No skin irritation		
Cariaus que democo/irritotion			
Serious eye damage/irritation	: Causes serious eye irritation.		
Description of the second life of the	Eyes - Rabbit - Irritating to eyes		
Respiratory or skin sensitization	: Did not cause sensitization on laboratory animals.		
	Buehler Test - guinea pig - Did not cause sensitisation on laboratory animals.		
Germ cell mutagenicity	: Not classified		
Carcinogenicity	: No evidence of carcinogenicity in animal studies (when indicated).		
Reproductive toxicity	: Animal testing did not show any effects on fertility.		
Specific target organ toxicity (single exposure)	: Not classified		
	The substance or mixture is not classified as specific target organ toxicant.		
Specific target organ toxicity (repeated	: Not classified		
exposure)	The substance or mixture is not classified as specific target organ toxicant.		
Aspiration hazard	: Not classified		
Potential Adverse human health effects and symptoms	: Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled.		
Symptoms/injuries after inhalation	: Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled.		
Symptoms/injuries after skin contact	: Repeated exposure to this material can result in absorption through skin causing significant health hazard. Harmful in contact with skin.		
Symptoms/injuries after eye contact	: Causes eye irritation.		
Symptoms/injuries after ingestion	: Swallowing a small quantity of this material will result in serious health hazard.		
-			

SECTION 12: Ecological information		
12.1. Toxicity		
4-METHYLUMBELLIFERONE (2,3,4,METHYL-13C4, 99%) 100 UG/ML IN ACETONITRILE		
LC50 fish 1	1640.00 mg/l Pimephales promelas (fathead minnow) - 96h	
EC50 Daphnia 1	3600 mg/l Daphnia magna (Water flea) - 48h	
NOEC (chronic)	640 mg/l Daphnia magna (Water flea) - 14d	
ACETONITRILE UNLABELED (75-05-8)		
LC50 fish 1	1640.00 mg/l Pimephales promelas (fathead minnow) - 96h	
EC50 Daphnia 1	3600 mg/l Daphnia magna (Water flea) - 48h	
NOEC (chronic)	640 mg/l Daphnia magna (Water flea) - 14d	

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12.2. Persistence and degradability		
4-METHYLUMBELLIFERONE (2,3,4,METHY	13C4, 99%) 100 UG/ML IN ACETONITRILE	
Persistence and degradability	Biodegradability Result: - Readily biodegradable.	
ACETONITRILE UNLABELED (75-05-8)		
Persistence and degradability	Biodegradability Result: - Readily biodegradable.	
4-METHYLUMBELLIFERONE (2,3,4,METHY	13C4, 99%) (90-33-5 (unlabeled))	
Persistence and degradability	Not available.	
12.3. Bioaccumulative potential		
4-METHYLUMBELLIFERONE (2,3,4,METHY)	-13C4. 99%) 100 UG/ML IN ACETONITRILE	
Log Pow	-0.34	
Bioaccumulative potential	No bioaccumulation is to be expected (log Pow <= 4).	
ACETONITRILE UNLABELED (75-05-8)		
Log Pow	-0.34	
Bioaccumulative potential	No bioaccumulation is to be expected (log Pow <= 4).	
4-METHYLUMBELLIFERONE (2,3,4,METHY	13C4, 99%) (90-33-5 (unlabeled))	
Bioaccumulative potential	Not available.	
12.4. Mobility in soil		
4-METHYLUMBELLIFERONE (2,3,4,METHY)	-13C4. 99%) 100 UG/ML IN ACETONITRILE	
Ecology - soil	Not expected to absorb on soil.	
ACETONITRILE UNLABELED (75-05-8)		
Ecology - soil	Not expected to absorb on soil.	
4-METHYLUMBELLIFERONE (2,3,4,METHYL Ecology - soil	13C4, 99%) (90-33-5 (unlabeled)) Not available.	
12.5. Results of PBT and vPvB assessme	ent	
No additional information available		
12.6. Other adverse effects		
Other adverse effects	: Avoid release to the environment.	
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.	
SECTION 14: Transport information		
In accordance with ADR / RID / ADNR / IMDG /		
14.1. UN number		
UN-No.(DOT)	: 1648	
DOT NA no.	UN1648	
14.2 LIN proper chimping name		
14.2. UN proper shipping name DOT Proper Shipping Name	: Acetonitrile	
Department of Transportation (DOT) Hazard	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120	
Classes Hazard labels (DOT)	: 3 - Flammable liquid	
Packing group (DOT)	: II - Medium Danger	

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DOT Special Provisions (49 CFR 172.102)	IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T7 - 4 178.274(d)(2) Normal
DOT Dealessing Freestings (40 CED 472 mm)	
0010	: 150
00,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	: 202
DOT Packaging Bulk (49 CFR 173.xxx)	: 242
14.3. Additional information	
Other information	: No supplementary information available.
Overland transport	
Packing group (ADR)	: 11
	: 3 - Flammable liquid
	: 33
	: F1
	: 3 - Flammable liquids
Orange plates	
	<u>33</u> 1648
Tunnel restriction code	: D/E
Limited quantities (ADR)	1L
EAC	: •2YE
Excepted quantities (ADR)	: E2
Transport by sea	
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 section is exceeded.
DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters"
MFAG-No	: 127
Air transport	
Air transport DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 5L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L
Civil Aeronautics Law	: Flammable liquids
14.4. Environmental hazards	
Other information	: No supplementary information available.
14.5. Special precautions for user	

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SECTION 15: Regulatory information			
15.1. US Federal regulations			
4-METHYLUMBELLIFERONE (2,3,4,METHYL-13C4, 99%) 100 UG/ML IN ACETONITRILE			
Listed on SARA Section 313 (Specific toxic chemical listings)			
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard		
ACETONITRILE UNLABELED (75-05-8)			
Listed on SARA Section 313 (Specific toxic chemical listings)			
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard		

15.2. International regulations

CANADA

 4-METHYLUMBELLIFERONE (2,3,4,METHYL-13C4, 99%) 100 UG/ML IN ACETONITRILE

 Listed on the Canadian DSL (Domestic Substances List) inventory.

 ACETONITRILE UNLABELED (75-05-8)

 Listed on the Canadian DSL (Domestic Substances List) inventory.

15.2.1. National regulations

No additional information available

15.3. US State regulations

4-METHYLUMBELLIFERONE (2,3,4,METHYL-13C4, 99%) 100 UG/ML IN ACETONITRILE()	
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, birth defects, or any other reproductive harm.

ACETONITRILE UNLABELED (75-05-8)	
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 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Flam. Liq. 2	Flammable liquids Category 2
Skin Irrit. 2	skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H225	Highly flammable liquid and vapor
H302	Harmful if swallowed
H312	Harmful in contact with skin

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H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
R11	Highly flammable
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed
R22	Harmful if swallowed
R36	Irritating to eyes
R36/37/38	Irritating to eyes, respiratory system and skin
F	Highly flammable
Xi	Irritant
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 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

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