

### 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: 25/03/2015

Revision date:

Version: 1.0

:

EM-1724-A

1.1. Produ	ct identifier	
Product form		: Mixtures
Product name.		: CHLOROBENZENE COCKTAIL SOL'N MONO/DI/TRI ISOMERS (13C6, 99%) 100 UG/ML I ISOOCTANE
Product code		: EM-1724-A
1.2. Relev	ant identified uses of the	substance or mixture and uses advised against
1.2.1. Relev	ant identified uses	
ndustrial/Profes	sional use spec	: For professional use only.
1.2.2. Uses	advised against	
	ormation available	
	s of the supplier of the sa	foty data shoot
50 Frontage Roa Andover, MA 0 USA USA: 1-800-322 cilsales@isotop	810 2-1174 Int: 1-978-749-800	0
	jency telephone number	
Emergency num		
Chemtrec: 1-80	0-424-9300 (24 hours) 202-483-7616 (24 hours)	
SECTION 2:	Hazards identificatio	on
2.1. Class	fication of the substance	or mixture
Classification a	ccording to Regulation (E	C) No. 1272/2008 [CLP]
Flam. Liq. 2	H225	
Skin Irrit. 2	H315	
STOT SE 3	H336	
Asp. Tox. 1	H304	
Aquatic Acute 1	H400	
Aquatic Chronic	1 H410	
Full text of H-ph	ases: see section 16	
	ases: see section 16 ccording to Directive 67/5	648/EEC or 1999/45/EC

F; R11 Xi; R38 N; R50/53 R67 Full text of R-phrases: see section 16

### **Classification (GHS-US)**

 Flam. Liq. 2
 H225

 Skin Irrit. 2
 H315

 STOT SE 3
 H336

 Asp. Tox. 1
 H304

 Aquatic Acute 1
 H400

 Aquatic Chronic 1
 H410

Adverse physicochemical, human health and environmental effects Liver, Kidney.

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#### 2.2. Label elements Labeling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) GHS02 GHS07 GHS08 GHS09 Signal word (CLP) : Danger Hazard statements (CLP) : H225 - Highly flammable liquid and vapor H304 - May be fatal if swallowed and enters airways H315 - Causes skin irritation H336 - May cause drowsiness or dizziness H410 - Very toxic to aquatic life with long lasting effects 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 fume, mist, spray, vapors P264 - Wash both hands thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P273 - Avoid release to the environment **GHS-US** labeling Hazard pictograms (GHS-US) GHS07 GHS02 GHS08 GHS09 Signal word (GHS-US) : Danger Hazard statements (GHS-US) : H225 - Highly flammable liquid and vapor H304 - May be fatal if swallowed and enters airways H315 - Causes skin irritation H336 - May cause drowsiness or dizziness H400 - Very toxic to aquatic life H410 - Very toxic to aquatic life with long lasting effects Precautionary statements (GHS-US) : 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 fume, mist, spray, vapors P264 - Wash Both hands thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P273 - Avoid release to the environment P280 - Wear eye protection, face protection, 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 P312 - Call a POISON CENTER/doctor/physician if you feel unwell P331 - If swallowed, do NOT induce vomiting P332+P313 - If skin irritation occurs: 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 P391 - Collect spillage P403+P233 - Store in a well-ventilated place. Keep container tightly closed P403+P235 - Store in a well-ventilated place. Keep cool P405 - Store locked up

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### 2.3. Other hazards

**Mixtures** 

#### No additional information available

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

3.1. Substances

Not applicable

3.2.

Name	Product identifier	%	Classification according to Directive 67/548/EEC
ISOOCTANE UNLABELED	(CAS No) 540-84-1 (EC no) 208-759-1 (EC index no) 601-009-00-8	99.9565	F; R11 Xi; R38 N; R50/53 R67
1,2,4-TRICHLOROBENZENE (13C6, 99%)	(CAS No) 120-82-1 (Unlabeled) (EC no) 204-428-0 (EC index no) 602-087-00-6	0.0145	Xn; R22 Xi; R38 N; R50/53
CHLOROBENZENE (13C6, 99%)	(CAS No) 108-90-7 (Unlabeled) (EC no) 203-628-5 (EC index no) 602-033-00-1	0.0145	Xn; R20/22 N; R51/53 R10
1,4-DICHLOROBENZENE (13C6, 99%)	(CAS No) 201595-59-7 (EC no) 203-400-5 (EC index no) 602-035-00-2	0.0145	Carc.Cat.1; R45 Carc.Cat.3; R40 Xn; R22 Xi; R36 N; R50/53
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
ISOOCTANE UNLABELED	(CAS No) 540-84-1 (EC no) 208-759-1 (EC index no) 601-009-00-8	99.9565	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
1,2,4-TRICHLOROBENZENE (13C6, 99%)	(CAS No) 120-82-1 (Unlabeled) (EC no) 204-428-0 (EC index no) 602-087-00-6	0.0145	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
CHLOROBENZENE (13C6, 99%)	(CAS No) 108-90-7 (Unlabeled) (EC no) 203-628-5 (EC index no) 602-033-00-1	0.0145	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Aquatic Chronic 2, H411
1,4-DICHLOROBENZENE (13C6, 99%)	(CAS No) 201595-59-7 (EC no) 203-400-5 (EC index no) 602-035-00-2	0.0145	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Name	Product identifier	%	Classification (GHS-US)
ISOOCTANE UNLABELED	(CAS No) 540-84-1	99.9565	Flam. Liq. 1, H224 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

#### 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	: 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	: Flush eyes with water as a precaution.
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according to Regulation (EC) No. 455/2010 and acc	
First-aid measures after ingestion	: Immediately call a POISON CENTER or doctor/physician.
4.2. Most important symptoms and	effects, both acute and delayed
Symptoms/injuries after inhalation	: 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.
	edical attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measure	es
5.1. Extinguishing media	
suitable extinguishing media	: For small fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.
5.2. Special hazards arising from th	e substance 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.
SECTION 6: Accidental release n	noacurac
General measures	re equipment and emergency procedures
General measures	<ul> <li>Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking.</li> </ul>
6.1.1. For non-emergency personnel	
Emergency procedures	: Use personal protective equipment, and ensure adequate ventilation. Avoid breathing vapors, mist, gas. Remove ignition sources, and move personnel to safe area. Vapors accumulate especially in low areas to form explosive concentrations.
6.1.2. For emergency responders No additional information available	
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for conta	inment and cleaning up
For containment	: Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-
Tor containment	brushing and place in container for disposal according to local regulations.
6.4. Reference to other sections	
No additional information available	
<b>SECTION 7: Handling and storag</b>	e
7.1. Precautions for safe handling	
Additional hazards when processed	: Handle empty containers with care because residual vapors are flammable.
Precautions for safe handling	<ul> <li>No naked lights. No smoking. Use only non-sparking tools. Use only outdoors or in a well- ventilated area.</li> </ul>
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, inc	luding any incompatibilities
Technical measures	: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving 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	
NO AUDITIONAL INFORMATION AVAILABLE	

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SECTION 8: Exposure c	ontrols/personal protection		
8.1. Control parameters			
1,2,4-TRICHLOROBENZENE	(13C6, 99%) (120-82-1 (Unlabeled))		
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	5.0000000000 ppm USA. ACGIH Threshold Limit Values - Eye & Upper Respiratory Tract irritation	
USA OSHA	OSHA PEL (TWA) (ppm)	5.0000000000 ppm USA. OSHA - TABLE Z-1 Limites for Air Contaminants - 1910.1000	
CHLOROBENZENE (13C6, 99%) (108-90-7 (Unlabeled))			
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	10.0000000000 ppm Liver damage. Confirmed animal carcinogen with unkown relevance to humans.	
USA OSHA	OSHA PEL (TWA) (ppm)	75.000000000 ppm	
1,4-DICHLOROBENZENE (13	SC6, 99%) (201595-59-7)		
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	10.0000000000 ppm Eye irritation. Kidney damage. Confirmed animal carcinogen.	
USA OSHA	OSHA PEL (TWA) (ppm)	75.000000000 ppm	
USA OSHA	OSHA PEL (STEL) (ppm)	110.000000000 ppm	

8.2. Exposure controls

Personal protective equipment

: Gloves. Safety glasses. Respiratory protection of the dependent type. Protective clothing.



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.
  - : 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 chemical properties

The properties listed below are for the solvent, the main comp	ponent of this mixture.
Physical state	: Liquid
Appearance	: Liquid.
Molecular mass	: 114.23
Color	: No data available.
Odor	: No data available
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: -107 °C (- 161 °F)
Freezing point	: No data available
Boiling point	: 99 °C (210 °F)
Flash point	: -12 °C (10 °F) - closed cup
Self ignition temperature	: 396 °C (745 °F)
Decomposition temperature	: No data available
Flammability (solid, gas)	: Highly flammable liquid and vapor
Vapor pressure	: 55 hPa (41 mmHg) at 21 °C (70 °F)
Relative vapor density at 20 °C	: 3.94 - (Air = 1.0)
Relative density	: No data available
Solubility	: Water: 0 %
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
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Explosive properties	: No data available
Dxidizing properties	: No data available
xplosive limits	: 1 - 6 % (V)
.2. Other information	
lo additional information available	
ECTION 10: Stability and reactivity	
0.1. Reactivity	
apors may form explosive mixture with air.	
0.2. Chemical stability	
table if stored under recommended conditions.	
0.3. Possibility of hazardous reactions	
o additional information available	
0.4. Conditions to avoid	
pen flame. Direct sunlight.	
0.5. Incompatible materials	
trong oxidizing agents.	
0.6. Hazardous decomposition products	
lay release flammable gases.	
ECTION 11: Toxicological informati	ion
1.1. Information on toxicological effects	
cute toxicity	: Not classified
1,2,4-TRICHLOROBENZENE (13C6, 99%) (12	
LD50 oral rat	≥ 756.0 mg/kg
LC50 inhalation rat (mg/l)	≥ 6139 mg/kg
ATE (oral)	500.000 mg/kg body weight
CHLOROBENZENE (13C6, 99%) (108-90-7 (U	
LD50 oral rat	1110 mg/kg
LC50 inhalation rat (ppm)	2965 ppm
1,4-DICHLOROBENZENE (13C6, 99%) (20159	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l) ATE (oral)	> ≥ 5.07 mg/l 500.000 mg/kg body weight
kin corrosion/irritation	: Causes skin irritation.
orious ava damaga/irritation	No data available : Not classified
erious eye damage/irritation	No data available
espiratory or skin sensitization	: Not available
	No data available
erm cell mutagenicity	: Not classified
arcinogenicity	: Not classified
eproductive toxicity	: Not available
pecific target organ toxicity (single exposure)	: May cause drowsiness or dizziness.
pecific target organ toxicity (repeated	: Not classified
pecific target organ toxicity (repeated kposure)	No data available
aniration bazard	
spiration hazard	: May be fatal if swallowed and enters airways.
otential Adverse human health effects and mptoms	: The chemical, physical, and toxicological properties have not been thoroughly investigated.
ymptoms/injuries after inhalation	: May cause drowsiness or dizziness.
ymptoms/injuries after skin contact	Causes skin irritation.
	: Causes eye irritation.
ymptoms/injuries after eye contact ymptoms/injuries after ingestion	: May be fatal if swallowed and enters airways.

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SECTION 12: Ecological informa	tion
12.1. Toxicity	
Ecology - water	: Very toxic to aquatic life with long lasting effects.
1,2,4-TRICHLOROBENZENE (13C6, 99%	
LC50 fish 1	1.32 mg/l Oncorhynchus mykiss (rainbow trout) - 96 h
EC50 Daphnia 1	1.7 mg/l Daphnia magna (Water flea) - 48 h
CHLOROBENZENE (13C6, 99%) (108-90	-7 (Unlabeled))
LC50 fish 1	10 mg/l Cyprinodon variegatus (sheepshead minnow) - 96 h
EC50 Daphnia 1	4.3 - 16 mg/l Daphnia magna (Water flea) - 24 h
EC50 other aquatic organisms 1	10.7 mg/l Daphnia magna (Water flea) - 48 h
LC50 fish 2	4.5 - 7.4 mg/kg Lepomis macrochirus (Bluegill) - 76 h
ErC50 (algae)	12.5 mg/l Pseudokirchneriella subcapitata (Green algae) - 96 h
NOEC (acute)	<1.4 mg/l Daphnia magna (Water flea) - 11 d
NOEC (chronic)	6.2 mg/l Cyprinodon varigatus (Sheepshead minnow) - 96 h
1,4-DICHLOROBENZENE (13C6, 99%) (2	201595-59-7)
LC50 fish 1	2.1 mg/l Danio rerio (zebra fish) - 96
LC50 other aquatic organisms 1	28 mg/l Desmodesmus subspicatus (Green algae) - 48 h
EC50 Daphnia 1	0.70 mg/l Daphnia magna (Water flea) - 48 h
LC50 fish 2	4.2 mg/l Pimephales promelas (Fathead minnow) - 96 h
LOEC (acute)	5.6 mg/l Cyprinodon variegatus (Sheepshead minnow) - 96 h
LOEC (chronic)	0.263 mg/l Other fish - 10 d
2.2. Persistence and degradability	
	IONO/DI/TRI ISOMERS (13C6, 99%) 100 UG/ML IN ISOOCTANE
Persistence and degradability	May cause long-term adverse effects in the environment.
1,2,4-TRICHLOROBENZENE (13C6, 99%	b) (120-82-1 (Unlabeled))
Persistence and degradability	Not available.
CHLOROBENZENE (13C6, 99%) (108-90	-7 (Unlabeled))
Persistence and degradability	Not available.
ISOOCTANE UNLABELED (540-84-1)	
Persistence and degradability	Not available.
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2.3. Bioaccumulative potential	
Bioaccumulative potential	IONO/DI/TRI ISOMERS (13C6, 99%) 100 UG/ML IN ISOOCTANE
	Not available.
1,2,4-TRICHLOROBENZENE (13C6, 99%	
Log Pow	4.00
CHLOROBENZENE (13C6, 99%) (108-90	-7 (Unlabeled))
Log Pow	2.89
1,4-DICHLOROBENZENE (13C6, 99%) (2	201595-59-7)
Bioconcentration factor (BCF REACH)	112 Oncorhynchus mykiss (Rainbow trout) - 7 d
Log Pow	3.40
ISOOCTANE UNLABELED (540-84-1)	
Bioaccumulative potential	Not available.
2.4. Mobility in soil	
,	IONO/DI/TRI ISOMERS (13C6, 99%) 100 UG/ML IN ISOOCTANE
Ecology - soil	Not available.
	1
1,2,4-TRICHLOROBENZENE (13C6, 99%	
Ecology - soil	Not available.
CHLOROBENZENE (13C6, 99%) (108-90	-7 (Unlabeled))
Ecology - soil	Not available.
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1,4-DICHLOROBENZENE (13C6, 99%) (2015	j95-59-7)
Ecology - soil	Not available.
ISOOCTANE UNLABELED (540-84-1)	
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 dispo Very toxic to aquatic organisms.
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 Loca environmental control regulations.
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national 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 /	ICAO / IATA
14.1. UN number	
UN-No.(DOT)	: 1262
DOT NA no.	UN1262
14.2. UN proper shipping name	
DOT Proper Shipping Name	: Octanes
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) DOT Special Provisions (49 CFR 172.102)	<ul> <li>II - Medium Danger</li> <li>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 11k kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T4 - 2.65 178.274(d)(2) Normal</li></ul>
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 202
DOT Packaging Bulk (49 CFR 173.xxx)	: 242
14.3. Additional information	
Other information	: No supplementary information available.
Overland transport	. 11
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Packing group (ADR) Class (ADR) Hazard identification number (Kemler No.) Classification code (ADR)	: II : 3 - Flammable liquid : 33 : F1

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Danger labels (ADR)	: 3 - Flammable liquids
	3
Orange plates	33
	1262
Tunnel restriction code	: D/E
Limited quantities (ADR)	1L
EAC	: 3YE
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.
MFAG-No	: 128
Air transport	
DOT Quantity Limitations Passenger aircraft/rail	: 5L
(49 CFR 173.27)	. 601
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	. 60 L
Civil Aeronautics Law	: Flammable liquids
14.4. Environmental hazards	
Dangerous for the environment	:
	₩ a
Other information	: No supplementary information available.
14.5. Special precautions for user	
	x II of MARPOL 73/78 and the IBC Code
Not applicable	
SECTION 15: Regulatory information	
15.1. US Federal regulations	
	/DI/TRI ISOMERS (13C6, 99%) 100 UG/ML IN ISOOCTANE
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard
	Delayed (chronic) health hazard
ISOOCTANE UNLABELED (540-84-1)	
SARA Section 311/312 Hazard Classes	Fire hazard
	Immediate (acute) health hazard

#### 15.2. International regulations

#### CANADA

#### CHLOROBENZENE COCKTAIL SOL'N MONO/DI/TRI ISOMERS (13C6, 99%) 100 UG/ML IN ISOOCTANE

Delayed (chronic) health hazard

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

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15.2.1. National regulations

No additional information available

#### 15.3. US State regulations

CHLOROBENZENE COCKTAIL SOL'N MONO/DI/TRI ISOMERS (13C6, 99%) 100 UG/ML IN ISOOCTANE()			
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.		

#### **ISOOCTANE UNLABELED (540-84-1)**

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 (Oral)	Acute toxicity (oral) 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
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Asp. Tox. 1	Aspiration hazard Category 1
Carc. 2	Carcinogenicity Category 2
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Flam. Liq. 2	Flammable liquids Category 2
Flam. Liq. 3	Flammable liquids Category 3
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
H226	Flammable liquid and vapor
H302	Harmful if swallowed
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
H351	Suspected of causing cancer
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
R10	Flammable
R11	Highly flammable
R20/22	Harmful by inhalation and if swallowed
R22	Harmful if swallowed
R36	Irritating to eyes
R38	Irritating to skin
R40	Limited evidence of a carcinogenic effect
R45	May cause cancer
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R67	Vapors may cause drowsiness and dizziness
F	Highly flammable

### 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

Ν		Dangerous for the environment
Xi	i	Irritant
Xr	'n	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	I 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