

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: 16/02/2011

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Version: 3.0

Revision	uale.	21/01/

CLM-27	21
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SECTION 1: Identification of the	e substance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Substance
Substance name	: OCTANOIC ACID (1,2,3,4-13C4, 99%)
EC no	: 204-677-5 (Unlabeled)
CAS No	: 124-07-2 (Unlabeled)
Product code	: CLM-2721
Formula	: CH3(CH2)3(*CH2)3*COOH
Synonyms	: Caprylic acid / Acid C8
1.2. Relevant identified uses of the	e substance or mixture and uses advised against
1.2.1. Relevant identified uses	
Main use category	: Professional use
Industrial/Professional use spec	: For professional use only.
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of the s	safety data sheet
Cambridge Isotope Laboratories, Inc. 50 Frontage Road Andover, MA 01810 USA	
USA: 1-800-322-1174 Int: 1-978-749-80 cilsales@isotope.com www.isotope.com	
Emergency telephone numbe	r
Emergency numbers:	
Chemtrec: 1-800-424-9300 (24 hours) International: 1-703-741-5970 (24 hours)	)
SECTION 2: Hazards identificat	ion
2.1. Classification of the substance	e or mixture
Classification according to Regulation	(EC) No. 1272/2008 [CLP]
Skin Corr. 1A H314	
Eye Dam. 1 H318	
Full text of H-phrases: see section 16	
Classification according to Directive 67 C; R35	?/548/EEC or 1999/45/EC

C; R35 Xi; R41 Xi; R39 R52 Full text of R-phrases: see section 16

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

Skin Corr. 1A H314 Eye Dam. 1 H318 Aquatic Acute 3 H402

Adverse physicochemical, human health and environmental effects

No additional information available

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ard statements (CLP) :	/2008 [CLP]
hal word (CLP) : tard statements (CLP) : cautionary statements (CLP) :	Danger H314 - Causes severe skin burns and eye damage P260 - Do not breathe spray, mist P264 - Wash both hands thoroughly after handling P280 - Wear eye protection, face protection, protective gloves, protective clothing P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower P304+P340 - IF INHALED: 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
S-US labeling	Danger H314 - Causes severe skin burns and eye damage P260 - Do not breathe spray, mist P264 - Wash both hands thoroughly after handling P280 - Wear eye protection, face protection, protective gloves, protective clothing P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower P304+P340 - IF INHALED: 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
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cautionary statements (CLP) :	P260 - Do not breathe spray, mist P264 - Wash both hands thoroughly after handling P280 - Wear eye protection, face protection, protective gloves, protective clothing P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower P304+P340 - IF INHALED: 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
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card pictograms (GHS-US) :	
	GH505
nal word (GHS-US) :	Danger
ard statements (GHS-US) :	H314 - Causes severe skin burns and eye damage H318 - Causes serious eye damage H402 - Harmful to aquatic life
cautionary statements (GHS-US) :	<ul> <li>P260 - Do not breathe mist, spray</li> <li>P264 - Wash Both hands thoroughly after handling</li> <li>P273 - Avoid release to the environment</li> <li>P280 - Wear eye protection, face protection, protective clothing, protective gloves</li> <li>P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting</li> <li>P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower</li> <li>P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing</li> <li>P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing</li> <li>P310 - Immediately call a POISON CENTER or doctor/physician</li> <li>P321 - Specific treatment (see Hazard pictograms (CLP) on this label)</li> <li>P363 - Wash contaminated clothing before reuse</li> <li>P405 - Store locked up</li> <li>P501 - Dispose of contents/container to Comply with applicable regulations.</li> </ul>
Other hazards	
additional information available	

3.1. Substances

J.I. Substances			
Name	Product identifier	%	Classification according to Directive 67/548/EEC
OCTANOIC ACID (1,2,3,4-13C4, 99%) (Main constituent)	(CAS No) 124-07-2 (Unlabeled) (EC no) 204-677-5 (Unlabeled)	100	C; R35 Xi; R41 Xi; R39 R52
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
OCTANOIC ACID (1,2,3,4-13C4, 99%) (Main constituent)	(CAS No) 124-07-2 (Unlabeled) (EC no) 204-677-5 (Unlabeled)	100	Skin Corr. 1A, H314 Eye Dam. 1, H318

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

Name	Product identifier	%	Classification (GHS-US)
OCTANOIC ACID (1,2,3,4-13C4, 99%) (Main constituent)	(CAS No) 124-07-2 (Unlabeled)	100	Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Acute 3, H402

### Full text of H-phrases: see section 16

3.2. Mixtures	
Not applicable	
SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.
First-aid measures after inhalation	<ul> <li>If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a physician.</li> </ul>
First-aid measures after skin contact	: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water Consult a physician.
First-aid measures after eye contact	: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.
First-aid measures after ingestion	: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mou with water. Consult a physician.
4.2. Most important symptoms and e	ffects, both acute and delayed
Symptoms/injuries after inhalation	: May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
Symptoms/injuries after skin contact	: May be harmful if absorbed through the skin. Causes skin burns.
Symptoms/injuries after eye contact	: Causes eye burns.
Symptoms/injuries after ingestion	: May be harmful if swallowed.
4.3. Indication of any immediate med	lical attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measure	S
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	substance or mixture
No additional information available	
5.3. Advice for firefighters	
Firefighting instructions	: Wear self contained breathing apparatus for fire fighting if necessary.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release m	035UT05
	e equipment and emergency procedures
	equipment and emergency procedures
6.1.1. For non-emergency personnel Emergency procedures	: Use personal protective equipment. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe area.
6.1.2. For emergency responders No additional information available	
6.2. Environmental precautions	
	do so. Do not let product enter drains. Discharge into the environment must be avoided.
6.3. Methods and material for contain	
For containment	<ul> <li>Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.</li> </ul>
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	•
7.1. Precautions for safe handling	
Additional hazards when processed	: Avoid inhalation of vapour or mist. Normal measures for preventive fire protection.

# OCTANOIC ACID (1,2,3,4-13C4, 99%) CLM-2721 Safety Data Sheet

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Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice. Wash hands before
Conditions for onforetrational	breaks and at the end of workday.
7.2. Conditions for safe storage, inclu Fechnical measures	: Keep container tightly closed in a cool, dry and well-ventilated place.
Storage conditions	: Store at room temperature away from light and moisture.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/pe	rsonal protection
3.1. Control parameters	
No additional information available	
3.2. Exposure controls	
Appropriate engineering controls	<ul> <li>Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.</li> </ul>
Personal protective equipment	: Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.
Materials for protective clothing	: Wear suitable protective clothing and gloves.
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	<ul> <li>Wear complete suit protecting against chemicals according to concentration and amount of substance.</li> </ul>
Respiratory protection	: When appropriate, use NIOSH/CEN approved respirator.
Environmental exposure controls	: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Physical state	: Liquid
Appearance	: Clear, viscous liquid.
Aolecular mass	: 148.18 g/mol (Labeled)
Color	: Light yellow.
Ddor	: No data available
Odor threshold	: No data available
ЪН	: 3.5 at 0.5 g/l
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: 15 - 17 °C (59 - 63°F) - lit.
Freezing point	: No data available
Boiling point	: 237 °C (459 °F) - lit.
lash point	: > 110 °C (> 230 °F) - closed cup
Self ignition temperature	: > 300 °C (> 572 °F)
Decomposition temperature	: No data available
lammability (solid, gas)	: No data available
/apor pressure	: 13 hPa (10 mmHg) at 124 °C (255 °F); 1 hPa (1 mmHg) at 78 °C (172 °F)
Relative vapor density at 20 °C	: 4.98 - (Air = 1.0)
Relative density	: No data available
Density	: 0.91 g/ml at 25 °C (77 °F)
Solubility	: Water: 0.68 g/l at 20 °C (68 °F)
log Pow	: 3.05
log Kow	: No data available
/iscosity, kinematic	: No data available
/iscosity, dynamic	: No data available
Synlopius proportion	: No data available
Explosive properties	

Oxidizing properties

Explosive limits

: No data available

: No data available

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9.2. Other information No additional information available SECTION 10: Stability and reactivity 10.1. Reactivity No additional information available 10.2. Chemical stability Stabil if stored under recommended conditions. 10.3. Possibility of hazardous caecions No additional information available 10.4. Conditions to available 10.5. Incompatible materials Bases, Oxidizing agents, Reducing agents. 10.6. Hazardous decomposition products carbon oxides. SECTION 11: Toxicological information 11.1. Information available 11.1. Information available 12. Oxiditions to available 13.1. Conditions to available 13.2. Conditions to available 13.3. Possibility of hazardous 13.4. Possibility of hazardous 13.5. Incompatible materials 13.6. Hazardous decomposition products 13.6. Hazardous decomposition products 13.1. Information 13.1. Information available 13.1. Information available 14.1. Information 15.1. Information available 14.1. Information available 14.1. Information 15.1. Information available 15.5. Information 15.5.	0.2 Other information	
SECTION 10: Stability and reactivity           10.1         Reactivity           No additional information available         10.2           10.2         Chemical stability           Stability of hazardous reactions         No           No additional information available         10.4           10.1         Possibility of hazardous reactions           No additional information available         10.4           10.5         Incompatible materials           Bases, Oxidizing agents, Reducing agents.         10.5           10.6         Hazardous decomposition products           cathon oxides.         SECTION 11: Toxicological information           11.1         Information on toxicological information         10.5           1.1.5         Incompatible materials         2000 mg/kg male and female (DECD Test Guideline 401)           LD50 oral rat         > 2000 mg/kg body weight         2000 mg/kg body weight           Skin corrosion/irritation         : Skin - Rabbit Result: truising to eyes. No data available         pH: 3.5 at 0.5 g1           Pri: 3.5 at 0.5 g1         Respiratory or skin sensitization         : Not available           Mo data available         No data available         No data available           Carrindgenitiy         : Not available         No data available		
10.1.       Reactivity         No additional information available         10.2.       Checkinal stability         Stable if stored under recommended conditions.         10.3.       Possibility of hazardous reactions         No additional information available         10.4.       Conditions to avoid         Not available.         10.5.       Incompatible materials         Bases, Oxidizing agents, Reducing agents.         10.6.       Hazardous decomposition products         carbon oxides.         SECTION 11: Toxicological information         11.1.       Information on toxicological forfects         Acute toxicity       into tassified         OCTANOIC ACID (1,2,3,4-13C4, 99%) (124-07-2 (Unlabeled))         LD50 oral rat       > 2000 mg/kg male and female (DECD Test Guideline 401)         LD50 oral rat       > 2000 mg/kg body weight         Skin corrosion/irritation       : Skin - Rabbit Result: Causes burns. (OECD Test Guideline 404) No data available         pH: 3.5 at 0.5 g/l       Respiratory or skin sensitization         Serious eye damage/irritation       : Exps - rabbit Result: tritating to eyes. No data available         Germ cell mutagenicity       : Not available         Carcinogenicity       : Not available         Specific target organ toxicity (single		
No additional information available         10.2.       Chemical stability         Stable if stored under recommended conditions.         10.3.       Possibility of hazardous reactions         No additional information available         10.4.       Conditions to avail         10.5.       Incompatible materials         Bases, Oxidizing agents, Reducing agents.       10.6.         10.6.       Hazardous decomposition products         carbon oxides.       11.1         SECTION 115 Toxicological information       11.1         11.0.       Not available         Diffy and the available       2000 mg/kg male and female (OECD Test Guideline 401)         LD50 oral rata       > 2000 mg/kg male and female (OECD Test Guideline 401)         LD50 oral rata       > 2000 mg/kg male and female (OECD Test Guideline 404)         No data available       pH : 3.5 at 0.5 g/l         Serious eye damage/irritation       : Sin - Rabili Result: Lauses burns. (DECD Test Guideline 404)         No data available       pH : 3.5 at 0.5 g/l         Serious eye damage/irritation       : Not available         Gern cell mutagenicity       : Not available         Gern cell mutagenicity       : Not available         Carcinogenicity       : Not available         Carcinogenicity <td< td=""><td></td><td></td></td<>		
10.2. Chemical stability         Stable if stored under recommended conditions.         10.3. Possibility of hazardous reactions         No additional information available         10.4. Conditions to avoid         Not available.         10.5. Incompatible materials         Bases, Oxidizing agents, Reducing agents.         10.6. Hazardous decomposition products         carbon oxides.         SECTION 11: Toxicological information         11.1. Information on toxicological effects         Acute toxicity       in Not classified         OCTANOIC ACID (1,2,3,4-13C4, 99%) (124-07-2 (Unlabeled))         LD50 oral rat       > 2000 mg/kg male and female (OECD Test Guideline 401)         LD50 demain rabbi       > 2000 mg/kg male and female (OECD Test Guideline 401)         LD50 demain rabbi       > 5000 mg/kg male and female (OECD Test Guideline 404)         No data available       pH : 3.5 at 0.5 g/l         Serious eye damage/irritation       Eyes - rabbit Result: fintaling to eyes.         No data available       pH : 3.5 at 0.5 g/l         Respiratory or skin sensitization       Not varialable         No data available       Not varialable         Agenductive toxicity       Not varialable         Specific target organ toxicity (single exposure)       Not classified         Spec		
Stable if stored under recommended conditions.         10.3. Possibility of hazardous reactions         No additional information available         10.4. Conditions to avoid         Not available.         10.5. Incompatible materials         Bases, Oxidizing agents, Reducing agents.         10.6. Hazardous decomposition products         carbon oxides.         SECTION 11: Toxicological information         10.1. Information on toxicological information         10.2. OctANICI 02.3.4.13C4.99%) (124-07-2 Unlabeled)         LD50 oral rat       > 2000 mg/kg male and female (OECD Test Guideline 401)         LD50 dormal rabbit       > 2000 mg/kg bd/y weight         Skin corrosion/irritation       : Skin - Rabbit Result: Causes burns. (OECD Test Guideline 404) No data available         pH 3.5 at 0.5 g/l       PH 3.5 at 0.5 g/l         Serious eye damage/irritation       : Eyes - rabbit Result: Irritating to eyes. No data available         pH 3.5 at 0.5 g/l       Not data available         Carcinogenicity       : Not valiable         Carcinogenicity       : Not valiable         Carcinogenicity       : Not valiable         Carcinogenicity (repeated erg)       : Not dassified         Carcinogenicity       : Not valiable         Specific target organ toxicity (repeated erg)       : Not classified		
10.3.       Possibility of hazardous reactions         No additional information available         10.4.       Conditions to avoid         No ta vailable.         10.5.       Incompatible materials         Bases, Oxidizing agents, Reducing agents.         10.6.       Hazardous decomposition products         carbon oxides.         SECTION 11: Toxicological information         11.1.       Information on toxicological effects         Acute toxicity         1.1.1.       Information on toxicological effects         Acute toxicity         1.1.5.       Seconside (OECD Test Guideline 401)         LD50 ormal rabbit       > 5000 mg/kg male and female (OECD Test Guideline 401)         LD50 ormal rabbit       > 5000 mg/kg body weight         Skin corrosion/irritation       : Skin - Rabbit Result: Causes burns. (OECD Test Guideline 404)         No data available       pH 3.5 at 0.5 g/l         Serious eye damage/irritation       : Eyes - rabbit Result: Initiating to eyes.         No data available       No data available         Carcinogenicity       : Not classified         Reproductive toxicity       : Not classified         Reproductive toxicity (repeated effects and evailable         Specific target organ toxicity (repeated effects and		
Not additional information available         10.4. Conditions to avoid         Not available.         10.5. Incompatible materials         Bases, Oxidizing agents, Reducing agents.         10.6. Incompatible materials         Bases, Oxidizing agents, Reducing agents.         10.6. Incompatible materials         Cathon oxides.         Section 11.1. Information on toxicological effects         Acute toxicity       : Not classified         OCTANOIC ACID (12,3,4,1324, 99%) (124-07-2 Unlabeled))         LD50 oral rat       > 2000 mg/kg male and female (OECD Test Guideline 401)         LD50 dermal rabbit       > 5000 mg/kg         ATE (oral)       10080.000 mg/kg body weight         Skin corrosion/irritation       : Skin - Rabbit Result: Irritating to eyes.         No data available       pH : 3,5 at 0,5 g/l         Serious eye damage/irritation       : Eyes - rabbit Result: Irritating to eyes.         No data available       No data available         Ort Available       No data available         Respiratory or skin sensitization       : Not classified         Respiratory or skin sensitization       : Not classified         Resported trop organ toxicity (single exposure)       : Not classified         Specific target organ toxicity (single exposure)       : Not classified <td></td> <td></td>		
10.4.       Conditions to avoid         Not available.       Incompatible materials         Bases, Oxidizing agents, Reducing agents.       Incompatible materials         Science (Control (1,2,3,4-13C4, 99%) (124-07-2 (Unlabeled))       Incompatible materials         LD50 oral rat       > 2000 mg/kg pale and female (OECD Test Guideline 401)         LD50 dermal rabbit       > 5000 mg/kg body weight         ATE (oral)       10080.000 mg/kg body weight         Skin corrosion/irritation       : Skin - Rebit Result: Causes burns. (OECD Test Guideline 404) No data available         Serious eye damage/irritation       : Eyes - rabbit Result: Irritating to eyes. No data available         Germ cell mutagenicity       : Not available         Carcinogenicity       : Not available         Carcinogenicity       : Not classified         Reportator toxicity (repeated erg)       : Not classified         Reportator toxicity (repeated erg)       : Not classified         Specific target organ toxicity (repeated erg)       : Not classified		
Not available.         10.5.       Incompatible materials         Bases, Oxidizing agents, Reducing agents.         10.6.       Hazardous decomposition products         carbon oxides.         SECTION 11: Toxicological information         11.1.       Information on toxicological effects         Acute toxicity         Acute toxicity       iNot classified         OCTANOIC ACID (1,2,3,4-13C4, 99%) (124-07-2 (Unlabeled))         LD50 dermai rabit       > 5000 mg/kg male and female (OECD Test Guideline 401)         LD50 dermai rabit       > 5000 mg/kg         ATE (ora)       10000.000 mg/kg body weight         Skin corrosion/irritation       : Skin - Rabbit Result: Causes burns. (OECD Test Guideline 404) No data available         Pir: 3, 5 at 0, 5 g/l       Serious eye damage/irritation       : Eyes - rabbit Result: Irritating to eyes. No data available         Respiratory or skin sensitization       : Not available       No data available         No data available       No data available       No data available         Specific target organ toxicity (single exposure)       : Not classified       No data available         Specific target organ toxicity (repeated exposure)       : Not classified       No data available         Specific target organ toxicity (repeated exposure)       : Not classified<	No additional information available	
10.5.       Incompatible materials         Bases, Oxidizing agents, Reducing agents.         10.6.       Hazardous decomposition products         carbon oxides.         SECTION 11: Toxicological information         11.1.       Information on toxicological effects         Acute toxicity       Not classified         OCTANOL ACID (1,2,3,4-13C4, 9%) (12-07-2 (Unlabeled))         LD50 oral rat       > 2000 mg/kg male and female (OECD Test Guideline 401)         LD50 dermal rabbit       > 5000 mg/kg         ATE (oral)       10080.000 mg/kg body weight         Skin corrosion/irritation       Skin - Rabbit Result: Causes burns. (OECD Test Guideline 404) No data available         pH: 3.5 at 0.5 g/l       Respiratory or skin sensitization         Respiratory or skin sensitization       No data available         Gerr cell mutagenicity       Not classified         Reproductive toxicity       Not classified         Reproductive toxicity       Not classified         Reproductive toxicity (single exposure)       Not classified         No data available       No data available         Specific target organ toxicity (repeated exposure)       Not classified         No data available       No data available         Specific target organ toxicity (repeated exposure)       Not classified		
Bases, Oxidizing agents, Reducing agents.         10.6.       Hazardous decomposition products         carbon oxides.         SECTION 11: Toxicological information         11.1.       Information on toxicological effects         Acute toxicity : Not classified         OTANOIC ACID (1,2,3,4-13C4, 99%) (124-07-2 (Unlabeled))         LD50 orari rat       > 2000 mg/kg male and female (OECD Test Guideline 401)         LD50 dermal rabbit       > 5000 mg/kg body weight         Skin corrosion/irritation         Skin corrosion/irritation         Skin corrosion/irritation         Serious eye damage/irritation         Eyes - rabbit Result: Causes burns. (OECD Test Guideline 404)         No data available         pH: 3.5 at 0.5 g/l         Serious eye damage/irritation         Eyes - rabbit Result: Irritating to eyes.         No data available         Phi: 3.5 at 0.5 g/l         Respiratory or skin sensitization         Not classified         Reproductive toxicity       : Not available         Sectic target organ toxicity (single exposure)       : Not classified         Not classified       No d	Not available.	
10.6.       Hazardous decomposition products         carbon oxides.         SECTION 11: Toxicological information         11.1.       Information on toxicological effects         Acute toxicity       : Not classified         OCTANOC ACID (1,2,3,4-13C4, 99%) (124-07-2 (Unlabeled))       LD50 orai rat         LD50 dermal rabbit       > 2000 mg/kg male and female (OECD Test Guideline 401)         LD50 dermal rabbit       > 5000 mg/kg body weight         Skin corrosion/irritation       : Skin - Rabbit Result: Causes burns. (OECD Test Guideline 404) No data available         pH : 3.5 at 0.5 g/l         Serious eye damage/irritation       : Eyes - rabbit Result: Irritating to eyes. No data available         pH : 3.5 at 0.5 g/l         Serious eye damage/irritation       : Not available No data available         Respiratory or skin sensitization       : Not available No data available         Carcinogenicity       : Not available         Carcinogenicity       : Not available         Specific target organ toxicity (single exposure)       : Not classified         No data available       No data available         Specific target organ toxicity (repeated exposure)       : Not classified         Applaration hazard       : Not classified         Potential Adverse human health effects and explic toxicity to tissue of the mucous mem		
carbon oxides.         SECTION 11: Toxicological information         11.1       Information on toxicological effects         Acute toxicity         Cott atoxicity       : Not classified         OCTANOIC ACID (12,3,4-13C4, 99%) (124-07-2 (Unlabeled))	Bases, Oxidizing agents, Reducing agents.	
SECTION 11: Toxicological information         11.1       Information on toxicological effects         Acute toxicity       Not classified         OCTANOIC ACID (1,2,3,413C4, 99%) (124-07-2 (Unlabeled))         LD50 oral rat       > 2000 mg/kg male and female (OECD Test Guideline 401)         LD50 dermal rabbit       > 5000 mg/kg         ATE (oral)       10080.000 mg/kg body weight         Skin corrosion/irritation       :       Skin - Rabbit Result: Causes burns. (OECD Test Guideline 404) No data available pH: 3.5 at 0.5 g/l         Serious eye damage/irritation       :       Eyes - rabbit Result: Irritating to eyes. No data available         Germ cell mutagenicity       :       Not data available No data available         Germ cell mutagenicity       :       Not classified         Reproductive toxicity       :       Not classified         Specific target organ toxicity (single exposure)       :       Not classified         Specific target organ toxicity (repeated exposure)       :       Not classified         Aspiration hazard       :       Not classified         Potential Adverse human health effects and symptoms       :       Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin Cough, Shortness of breath, Nausea. Headache.         Symptoms/injuries a		
11.1       Information on toxicological effects         Acute toxicity       : Not classified         OCTANOIC ACID (1,2,3,4-13C4, 99%) (124-07-2 (Unlabeled))       > 2000 mg/kg male and female (OECD Test Guideline 401)         LD50 dermal rabbit       > 5000 mg/kg         ATE (oral)       10080.000 mg/kg body weight         Skin corrosion/irritation       : Skin - Rabbit Result: Causes burns. (OECD Test Guideline 404) No data available pH: 3.5 at 0.5 g/l         Serious eye damage/irritation       : Eyes - rabbit Result: Irritating to eyes. No data available pH: 3.5 at 0.5 g/l         Respiratory or skin sensitization       : Not available No data available         Germ cell mutagenicity       : Not available         Carcinogenicity       : Not classified         Specific target organ toxicity (single exposure)       : Not classified         Specific target organ toxicity (repeated exposure)       : Not classified         Aspiration hazard       : Not classified         Potential Adverse human health effects and symptoms       : Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract. Way be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.         Symptoms/injuries after skin contact       : May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.	carbon oxides.	
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Symptoms/injuries after eye contact : Causes eye burns.	Symptoms/injuries after skin contact	
Symptoms/injuries after ingestion : May be harmful if swallowed.		
	Symptoms/injuries after ingestion	: May be harmful if swallowed.

SECTION 12: Ecological information				
12.1. Toxicity				
OCTANOIC ACID (1,2,3,4-13C4, 99%) (124-07-2 (Unlabeled))				
LC50 fish 1	22 mg/l static test - Lepomis machrochirus (Bluegill sunfish) - 96 h			
EC50 Daphnia 1	550 mg/l Immobilization - Daphnia magna (Water flea) - 48 h (OECD Test Guideline 201)			
EC50 other aquatic organisms 1	31 mg/l Growth Inhibition - Pseudokirchneriella subcapitata (green algae) - 72 h (OECD Test Guideline 201)			

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

12.2. Persistence and degradability	ig to Federal Register / Vol. //, No. 35 / Monday, March 20, 2012 / Rules and Regulations
OCTANOIC ACID (1,2,3,4-13C4, 99%) (124-0	7.2 (Unlabalad))
Persistence and degradability	Aerobic - exposure time: 28 d.
Biodegradation	51.6 % Not readily biodegradable (OECD Test Guideline 301B)
-	
12.3. Bioaccumulative potential	7.2 (Unlobalad))
OCTANOIC ACID (1,2,3,4-13C4, 99%) (124-0	
Log Pow Bioaccumulative potential	3.05 Not available.
· · · ·	NUL AVAIIADIE.
12.4. Mobility in soil	
OCTANOIC ACID (1,2,3,4-13C4, 99%) (124-0	
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 an unprofessional handling or disposal. Harmful to aquatic life.
<b>SECTION 13: Disposal consideratio</b>	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 in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Dispose of as unused product.
<b>SECTION 14: Transport information</b>	
In accordance with ADR / RID / ADNR / IMDG /	
14.1. UN number	
UN-No.(DOT)	: 3265
DOT NA no.	UN3265
14.2. UN proper shipping name	
DOT Proper Shipping Name	: Corrosive liquid, acidic, organic, n.o.s.
	(Octanoic acid)
Department of Transportation (DOT) Hazard Classes	: 8 - Class 8 - Corrosive material 49 CFR 173.136
Hazard labels (DOT)	: 8 - Corrosive
DOT Symbols	: G - Identifies PSN requiring a technical name
Packing group (DOT)	: III - Minor Danger
DOT Special Provisions (49 CFR 172.102)	<ul> <li>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 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, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).</li> <li>T7 - 4 178.274(d)(2) Normal</li></ul>
DOT Packaging Exceptions (49 CFR 173.xxx)	: 154
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241
Marine pollutant	: No

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

14.3. Additional information			
Other information	: No supplementary information available.		
Overland transport			
Packing group (ADR)	: 10		
Class (ADR)	: 8 - Corrosive substances		
Hazard identification number (Kemler No.)	: 80		
Classification code (ADR)	: C3		
Danger labels (ADR)	: 8 - Corrosive substances		
Orange plates			
	<u>80</u> 3265		
Tunnel restriction code	: E		
Limited quantities (ADR)	5L		
EAC	: 2X		
APP	: B		
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.		
DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters"		
MFAG-No	: 153		
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	: Corrosive substances		
14.4. Environmental hazards			
Other information	: No supplementary information available.		
14.5. Special precautions for user			
14.6. 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			
OCTANOIC ACID (1,2,3,4-13C4, 99%) (124-07	-2 (Liniabeled))		
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard		

#### 15.2. International regulations

#### CANADA

OCTANOIC ACID (1,2,3,4-13C4, 99%) (124-07-2 (Unlabeled))
Listed on the Canadian DSL (Domestic Substances List) inventory.

#### 15.2.1. National regulations

No additional information available

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

15.3. US State regulations		
OCTANOIC ACID (1,2,3,4-13C4, 99%)(124-07-2 (Unlabeled))		
State or local regulations	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::

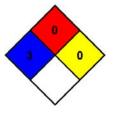
Eye Dam. 1Serious eye damage/eye irritation CategorySkin Corr. 1Askin corrosion/irritation Category 1AH314Causes severe skin burns and eye damageH318Causes serious eye damageR35Causes severe burnsR39Danger of very serious irreversible effectsR41Risk of serious damage to eyesR52Harmful to aquatic organismsCCorrosiveXiIrritant		
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R39Danger of very serious irreversible effectsR41Risk of serious damage to eyesR52Harmful to aquatic organismsCCorrosive	H318	Causes serious eye damage
R41     Risk of serious damage to eyes       R52     Harmful to aquatic organisms       C     Corrosive	R35	Causes severe burns
R52     Harmful to aquatic organisms       C     Corrosive	R39	Danger of very serious irreversible effects
C Corrosive	R41	Risk of serious damage to eyes
	R52	Harmful to aquatic organisms
Xi Irritant	С	Corrosive
	Xi	Irritant

#### NFPA health hazard

NFPA fire hazard

NFPA reactivity

- : 3 Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.
- : 0 Materials that will not burn.
- : 0 Normally stable, even under fire exposure conditions, and are not reactive with water.



#### **HMIS III Rating**

Health

Physical

Flammability

- : 3 Serious Hazard Major injury likely unless prompt action is taken and medical treatment is given
- : 0 Minimal Hazard
- : 0 Minimal Hazard

#### CIL Multi-Solvent 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