

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 16/02/2011 Revision date: 28/07/2022 Supersedes: 27/07/2016 Version: 4.0 DLM-619

SECTION 1: Identification of the sub	stance/mixture and of the company/undertaking	
1.1. Product identifier		
Product form	: Substance	
Substance name	: OCTANOIC ACID-D15 (D, 98%)	
EC-No.	: 204-677-5 (Unlabeled)	
CAS-No.	: 69974-55-6	
Product code	: DLM-619	
Formula	: CD3(CD2)6COOH	
Synonyms	: Caprylic acid; Acid C8	
1.2. Relevant identified uses of the subs	tance 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 safety	data abaat	
Cambridge Isotope Laboratories, Inc.		
50 Frontage Road		
Andover, MA 01810		
USA		
USA: 1-800-322-1174 Int: 1-978-749-8000 cilsales@isotope.com www.isotope.com		
Emergency telephone number		
Emergency numbers:		
Chemtrec: 1-800-424-9300 (24 hours) International: 1-703-741-5970 (24 hours)		
· · · · ·		
SECTION 2: Hazards identification		
2.1. Classification of the substance or m	2.1. Classification of the substance or mixture	
Classification according to Regulation (EC) No. 1272/2008 [CLP]		
Skin Corr. 1A H314		
Eye Dam. 1 H318		
Full text of hazard classes and H-statements : see section 16		
Classification according to Directive 67/548/EEC (DSD) or 1999/45/EC (DBD)		

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

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

GHS-US classification

Skin Corr. 1AH314Eye Dam. 1H318Aquatic Acute 3H402Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

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_abeling according to Regulation (EC) N	lo. 1272/2008 [CLP]
Hazard pictograms (CLP)	
	GHS05
Signal word (CLP)	: Danger
Hazard statements (CLP)	: H314 - Causes severe skin burns and eye damage
Precautionary 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. P310 - Immediately call a POISON CENTER or doctor.
GHS-US labeling	
Hazard pictograms (GHS-US)	
Signal word (GHS-US)	GHS05 : Danger
Hazard statements (GHS-US)	 H314 - Causes severe skin burns and eye damage H318 - Causes serious eye damage H402 - Harmful to aquatic life
Precautionary statements (GHS-US)	 P260 - Do not breathe mist, spray. P264 - Wash Both hands thoroughly after handling. P273 - Avoid release to the environment. P280 - Wear eye protection, face protection, protective clothing, protective gloves. 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 contal lenses, if present and easy to do. Continue rinsing P310 - Immediately call a poison center or doctor P321 - Specific treatment (see Hazard pictograms (CLP) on this label) P363 - Wash contaminated clothing before reuse. P405 - Store locked up. P501 - Dispose of contents/container to Comply with applicable regulations

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances			
Name	Product identifier	%	Classification according to Directive 67/548/EEC
OCTANOIC ACID-D15 (D, 98%)	(CAS-No.) 69974-55-6 (EC-No.) 204-677-5 (Unlabeled)	100	C; R35 Xi; R41 R52
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
OCTANOIC ACID-D15 (D, 98%)	(CAS-No.) 69974-55-6 (EC-No.) 204-677-5 (Unlabeled)	100	Skin Corr. 1A, H314 Eye Dam. 1, H318

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

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Name	Product identifier	%	GHS-US classification
OCTANOIC ACID-D15 (D, 98%) (Main constituent)	(CAS-No.) 69974-55-6	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	 If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a physician.
First-aid measures after skin contact	 Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of wate Consult a physician.
First-aid measures after eye contact	: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continu- 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 mouth with water. Consult a physician.
4.2. Most important symptoms and ef	fects, both acute and delayed
Symptoms/effects after inhalation	: May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
Symptoms/effects after skin contact	: Causes severe skin burns.
Symptoms/effects after eye contact	: Causes serious eye damage.
Symptoms/effects after ingestion	: May be harmful if swallowed.
4.3. Indication of any immediate medi	ical 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	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 me	
	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	
	lo so. Do not let product enter drains. Discharge into the environment must be avoided.
6.3. Methods and material for contain	
For containment	: Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.
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.
Hygiene measures	 Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
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7.2. Conditions for safe storage, includ	ing any incompatibilities
Technical 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/pers	sonal protection
3.1. Control parameters	
No additional information available	
3.2. Exposure controls	
Appropriate engineering controls	: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
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	: Wear complete suit protecting against chemicals according to concentration and amount of substance.
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.
SECTION 9: Physical and chemical	properties
9.1. Information on basic physical and	
Physical state	: Liquid
Appearance	: Clear, viscous liquid
Aolecular mass	: 159.3 g/mol (Labeled)
Color	: Light Yellow
Ddor	: No data available
Ddor threshold	: No data available
Н	: 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.
Flash point	: > 110 °C (> 230 °F) - closed cup
Auto-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
specific gravity / density	: 0.91 g/ml at 25 °C (77 °F)
Solubility	: Water: 0.68 g/l at 20 °C (68 °F)
.og Pow	: 3.05
Log Kow	: No data available
/iscosity, kinematic	: No data available
/iscosity, dynamic	: No data available
Explosive properties	: No data available

9.2. **Other information**

Oxidizing properties

Explosion limits

No additional information available

: No data available

: No data available

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SECTION 10: Stability and reactivity	
10.1. Reactivity	
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 avoid	
Not available.	
10.5. Incompatible materials	
Bases, Oxidizing agents, Reducing agents	
10.6. Hazardous decomposition products Carbon oxides	
SECTION 11: Toxicological information	on
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
OCTANOIC ACID-D15 (D, 98%) (69974-55-6)	2220 methoda and family (OEOD Test Outblies 424)
LD50 oral rat LD50 dermal rabbit	 > 2000 mg/kg male and female (OECD Test Guideline 401) > 5000 mg/kg
ATE CLP (oral)	10080.000 mg/kg body weight
Skin corrosion/irritation	: Skin - Rabbit Result: Causes burns. (OECD Test Guideline 404)
Skir corosion/initation	pH: 3.5 at 0.5 g/l
Serious eye damage/irritation	: Eyes - rabbit Result: Irritating to eyes.
	pH: 3.5 at 0.5 g/l
Respiratory or skin sensitization	: Not available
Germ cell mutagenicity	: Not available
Carcinogenicity	: Not classified
Reproductive toxicity	: Not available
Specific target organ toxicity – single exposure	: Not classified
Specific target organ toxicity – repeated	: Not classified
exposure	
Aspiration hazard	: Not classified
Potential Adverse human health effects and	: Material is extremely destructive to tissue of the mucous membranes and upper respiratory
symptoms	tract, eyes, and skin Cough, Shortness of breath, Nausea, Headache. 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.
Symptoms/effects after inhalation	: May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
Symptoms/effects after skin contact	: Causes severe skin burns.
Symptoms/effects after eye contact	: Causes serious eye damage.
Symptoms/effects after ingestion	: May be harmful if swallowed.

SECTION 12: Ecological information	
12.1. Toxicity	
OCTANOIC ACID-D15 (D, 98%) (69974-55-6)	
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)

12.2. Persistence and degradability		
OCTANOIC ACID-D15 (D, 98%) (69974-55-6)		
Persistence and degradability	Aerobic - exposure time: 28 d.	
Biodegradation	51.6 % Not readily biodegradable (OECD Test Guideline 301B)	
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12.3. Bioaccumulative potential	
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Log Pow	3.05
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessme	nt
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.
SECTION 13: Disposal consideration	hs
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.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Dispose of as unused product.
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IATA / A	DN
14.1. UN number	
UN-No.(DOT)	: 3265
DOT NA no.	UN3265
14.2. UN proper shipping name	
Proper Shipping Name (DOT)	: Corrosive liquid, acidic, organic, n.o.s.
	(Octanoic acid)
Class (DOT)	: 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)	 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). T7 - 4 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	: 154
DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx)	: 203 : 241
Marine pollutant	. 241 : No
14.3. Additional information	
Other information	: No supplementary information available.
Overland transport	
Packing group (ADR)	: 111
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Class (ADR)	: 8 - Corrosive substances
Hazard identification number (Kemler No.)	: 80
Classification code (ADR)	: C3
Hazard labels (ADR)	: 8 - Corrosive substances
Orange plates	80 3265
Tunnel restriction code (ADR)	: E
Limited quantities (ADR)	51
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 Anne	x II of MARPOL 73/78 and the IBC Code
Not applicable	
SECTION 15: Regulatory information	

SECTION 15: Regulatory information		
15.1. US Federal regulations		
OCTANOIC ACID-D15 (D, 98%) (69974-55-6)		
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard	

15.2. International regulations		
CANADA		
OCTANOIC ACID-D15 (D, 98%) (69974-55-6)		
Listed on the Canadian DSL (Domestic Substances List)		

15.2.1. National regulations

No additional information available

15.3. US State regulations	
OCTANOIC ACID-D15 (D, 98%)(69974-55-6)	
U.S California - Proposition 65 - Carcinogens List	No
U.S California - Proposition 65 - Developmental Toxicity	No

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OCTANOIC ACID-D15 (D, 98%)(69974-55-6)	
U.S California - Proposition 65 - Reproductive Toxicity - Female	No
U.S California - Proposition 65 - Reproductive Toxicity - Male	No
State or local regulations	RTK - U.S Pennsylvania - RTK (Right to Know) List RTK - U.S New Jersey - Right to Know Hazardous Substance List

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. 1	Serious eye damage/eye irritation Category 1
Skin Corr. 1A	Skin corrosion/irritation Category 1A
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
R35	Causes severe burns
R41	Risk of serious damage to eyes
R52	Harmful to aquatic organisms
С	Corrosive
Xi	Irritant

NFPA health hazard	: 3 - Materials that, under emergency conditions, can cause serious or permanent injury.
NFPA fire hazard	: 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.
Hazard Rating	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	: 0 Minimal Hazard
Physical	: 0 Minimal Hazard

CIL Substance 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