SIGMA-ALDRICH

2014 MAY 19 AM 11: 49

SAFETY DATA SHEET Version 4.5 Revision Date 04/05/2014 Print Date 05/14/2014

sigma-aldrich.com

1. PRODUCT AND COMPANY IDENTIFICATION

1.1	Product identifiers Product name	Octanoic acid	
	Product Number Brand REACH No. CAS-No.	3907 Idrich registration number is not available for this substanc r its uses are exempted from registration, the annual equire a registration or the registration is envisaged fo gistration deadline. 24-07-2	tonnage does not
1.2	Relevant identified uses of the substance or mixture and uses advised against		
	Identified uses	aboratory chemicals, Manufacture of substances	
1.3	Details of the supplier of	he safety data sheet	
	Company	<mark>igma-Aldrich</mark> 050 Spruce Street AINT LOUIS MO 63103 SA	
	Telephone Fax	1 800-325-5832 1 800-325-5052	
1.4	Emergency telephone nu		
	Emergency Phone #	14) 776-6555	
2. HA	ZARDS IDENTIFICATION		
2.1	Classification of the subs	or mixture	
	GHS Classification in acc Skin corrosion (Category 1) Serious eye damage (Cate Acute aquatic toxicity (Cate	H318	

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word	Danger
Hazard statement(s) H314 H402	Causes severe skin burns and eye damage. Harmful to aquatic life.
Precautionary statement(s)	
P264	Wash skin thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P330 + P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
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.
P310	Immediately call a POISON CENTER or doctor/ physician.
P321	Specific treatment (see supplemental first aid instructions on this label).
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) or not covered by GHS - none 2.3

Caprylic acid

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms

		Acid C8
Formula	:	C ₈ H ₁₆ O ₂
Molecular Weight	:	144.21 g/mol
CAS-No.	:	124-07-2
EC-No.	:	204-677-5

Hazardous components

Component	Classification	Concentration
Octanoic acid		
	Skin Corr. 1B; Eye Dam. 1;	-
	Aguatic Acute 3; H314, H402	

For the full text of the H-Statements mentioned in this

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed 4.2

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indication of any immediate medical attention and special treatment needed 4.3 no data available

5. FIREFIGHTING MEASURES

Extinguishing media 5.1

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Splash contact Material: Nitrile rubber Minimum layer thickness: 0.2 mm Break through time: 30 min Material tested:Dermatril® P (KCL 743 / Aldrich Z677388, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: clear, viscous liquid Colour: light yellow
b)	Odour	no data available
c)	Odour Threshold	no data available
d)	рН	3.5 at 0.5 g/l
e)	Melting point/freezing point	Melting point/range: 15 - 17 °C (59 - 63 °F) - litt.
f)	Initial boiling point and boiling range	237 °C (459 °F) - lit.
g)	Flash point	> 110 °C (> 230 °F) - closed cup
h)	Evapouration rate	no data available
i)	Flammability (solid, gas)	no data available
j)	Upper/lower flammability or explosive limits	no data available
k)	Vapour pressure	13 hPa (10 mmHg) at 124 °C (255 °F) 1 hPa (1 mmHg) at 78 °C (172 °F)
I)	Vapour density	4.98 - (Air = 1.0)
m)	Relative density	0.91 g/cm3 at 25 °C (77 °F)
n)	Water solubility	0.68 g/l at 20 °C (68 °F)
0)	Partition coefficient: n- octanol/water	log Pow: 3.05 at 20 °C (68 °F)
p)	Auto-ignition temperature	no data available
q)	Decomposition	no data available

temperature

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r) Viscosity no data available
 s) Explosive properties no data available
 t) Oxidizing properties no data available
 9.2 Other safety information

 Surface tension 28.6 - 28.7 mN/m at 20 °C (68 °F)
 Relative vapour density 4.98 - (Air = 1.0)

10. STABILITY AND REACTIVITY

- 10.1 Reactivity no data available
- **10.2 Chemical stability** Stable under recommended storage conditions.
- 10.3 Possibility of hazardous reactions no data available
- 10.4 Conditions to avoid no data available
- 10.5 Incompatible materials Bases, Oxidizing agents, Reducing agents
- **10.6 Hazardous decomposition products** Other decomposition products - no data available In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - rat - 10,080 mg/kg Remarks: Behavioral:Somnolence (general depressed activity). Diarrhoea

Inhalation: no data available

LD50 Dermal - rabbit - > 5,000 mg/kg

no data available

Skin corrosion/irritation Skin - rabbit Result: Causes burns. - 24 h (OECD Test Guideline 404)

Serious eye damage/eye irritation no data available

Respiratory or skin sensitisation no data available

Germ cell mutagenicity no data available

Carcinogenicity

IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as
	probable, possible or confirmed human carcinogen by IARC.

- ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a

known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity no data available

no data available

Specific target organ toxicity - single exposure no data available

Specific target organ toxicity - repeated exposure no data available

Aspiration hazard no data available

Additional Information RTECS: RH0175000

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Cough, Shortness of breath, Headache, Nausea

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	static test LC50 - Lepomis macrochirus (Bluegill sunfish) - 22 mg/l - 96 h
Toxicity to algae	Growth inhibition EC50 - Pseudokirchneriella subcapitata (green algae) - 31 mg/I - 72 h (OECD Test Guideline 201)

12.2 Persistence and degradability

Biodegradability aerobic - Exposure time 30 d Result: 90 % - Readily biodegradable. (OECD Test Guideline 301D)

12.3 Bioaccumulative potential no data available

12.4 Mobility in soil no data available

12.5 Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

UN number: 3265 Class: 8 Packing group: III Proper shipping name: Corrosive liquid, acidic, organic, n.o.s. (Octanoic acid) Reportable Quantity (RQ): Marine pollutant: No Poison Inhalation Hazard: No

IMDG

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UN number: 3265 Class: 8 Packing group: III EMS-No: F-A, S-B Proper shipping name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Octanoic acid) Marine pollutant: No

ΙΑΤΑ

UN number: 3265 Class: 8 Packing group: III Proper shipping name: Corrosive liquid, acidic, organic, n.o.s. (Octanoic acid)

15. REGULATORY INFORMATION

REACH No.

 A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Acute Health Hazard

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

Octanoic acid	CAS-No. 124-07-2	Revision Date
New Jersey Right To Know Components	CAS-No.	Revision Date
Octanoic acid	124-07-2	Revision Date

California Prop. 65 Components

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

16. OTHER INFORMATION

LINES Detine

Full text of H-Statements referred to under sections 2 and 3.

Aquatic Acute Eye Dam.	Acute aquatic toxicity Serious eye damage
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H402	Harmful to aquatic life.

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HIMIS Rating	
Health hazard:	
Chronic Health Hazard:	
Flammability:	
Physical Hazard	
-	

NFPA Rating	
Health hazard:	3
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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Preparation Information

Sigma-Aldrich Corporation Product Safety – Americas Region 1-800-521-8956

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