

OCTACID ONE

Code: 014H1

Safety Data Sheet compliant with Regulation (EU) 2020/878

Version 7.0.0

Creation date : 06/12/22

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Substance corrosive to metals - Category 1

Skin corrosion - Category 1B

Serious damage to eyes - Category 1

Specific target organ toxicity (STOT) - single exposure - Category 3

Hazardous to the aquatic environment – Chronic - Category 3

H290: May be corrosive to metals.

H314: Causes severe skin burns and eye damage.

H318: Causes serious eye damage.

H335: May cause respiratory irritation.

H412: Harmful to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to 1272/2008/EC Regulation:

Hazard pictograms(s) :



Signal word :

Danger

Contains : Methanesulphonic acid+ Hexan-1-ol, ethoxylated

Hazard statement(s) :

H290: May be corrosive to metals.

H314: Causes severe skin burns and eye damage.

H335: May cause respiratory irritation.

H412: Harmful to aquatic life with long lasting effects.

Precautionary statement(s) :

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): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

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.

P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

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2.3. Other hazards

The mixture does not contain substance identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. in concentration greater than 0.1%.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable as this involves a mixture.

3.2. Mixtures

Chemical nature of the mixture : LIQUID ACID

| Substance(s) | CAS number(s) | EINECS number(s) | index | No registration REACH | Classification according to Regulation (EC) 1272/2008 | SCL M-factor ATE | Type |
|---|---------------|------------------|--------------|-----------------------|--|--------------------|------|
| 20% <= Methanesulphonic acid < 25% | 75-75-2 | 200-898-6 | | 01-2119491166-34 | Met. Corr. 1 H290 Acute Tox. 4 (oral) H302 Acute Tox. 4 (dermal) H312 Skin Corr. 1B H314 STOT SE 3 H335 Eye Dam. 1 H318 | | (1) |
| 5% <= Hexan-1-ol, ethoxylated < 10% | 31726-34-8 | | | | Eye Dam. 1 H318 Acute Tox. 4 (oral) H302 | | (1) |
| 1% <= N,N-Dimethyl-1-Decanamin, N-Oxid < 5% | 2605-79-0 | 220-020-5 | | 01-2119959297-22 | Acute Tox. 4 (oral) H302 Eye Dam. 1 H318 Aquatic Acute 1 H400 Aquatic Chronic 2 H411 | M Factor (Acute) 1 | (1) |
| 1% <= Octanoic acid < 5% | 124-07-2 | 204-677-5 | 607-708-00-4 | | Skin Corr. 1C H314 Aquatic Chronic 3 H412 | | (1) |

Type

(1) : Substance classified as hazardous for health and/or the environment

(2) : Substance with an exposure limit at the work station.

Substance of very high concern candidate for the authorisation procedure:

(3) : Substance considered as PBT (persistent, bioaccumulable, toxic)

(4) : Substance considered as vPvB (very persistent, very bioaccumulable)

(5) : Substance considered as carcinogenic category 1A

(6) : Substance considered as carcinogenic category 1B

(7) : Substance considered as mutagenic category 1A

(8) : Substance considered as mutagenic category 1B

(9) : Substance considered as reprotoxic category 1A

(10) : Substance considered as reprotoxic category 1B

(11) : Substance considered as endocrine disrupter

(12) : Other substance considered hazardous to health or the environment

(N) : Nanomaterial

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

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SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General indications:

Take the contaminated clothes and shoes off immediately. Wash them before wearing them again.

In case of faintness , get medical advice/attention. Show this safety data sheet to the doctor.

NEVER administer liquids/solids orally to an impaired or unconscious individual; place individual in left sideways position with the head lowered and the knees bent.

Never leave the affected individual unattended.

In the event of inhalation :

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

Bring to fresh air.

In the event of contact with the skin :

Take off immediately all contaminated clothing.

Wash immediately with plenty of water for 15 minutes at least.

Immediately call a POISON CENTER or doctor/physician.

In the event of contact with the eyes :

Rinse at once with a soft stream of water for at least 15 minutes, eyes wide open.

Remove contact lenses if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER or doctor/physician.

In the event of ingestion :

Do not induce swallowing anything to an unconscious subject.

Rinse mouth.

Do NOT induce vomiting.

Call a POISON CENTER or doctor/physician.

4.2. Most important symptoms and effects, both acute and delayed

Skin contact : Corrosive : Causes severe burns.

Eye contact : Causes serious eye damage.

Ingestion : Causes severe burns in mouth and digestive tract.

Inhalation : May cause respiratory irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Treatments : Symptomatic treatment

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SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media :

Spray water, foam or dry ice.

Agents compatible with other products involved into fire.

Unsuitable extinguishing media :

High pressure water jet

5.2. Special hazards arising from the substance or mixture

Formation of toxic products through combustion: carbon oxides, sulphur oxides.

In presence of metal, release of hydrogen that is flammable and/or explosive if it catches fire.

5.3. Advice for firefighters

Wear independent respiratory equipment and protective suit.

Collect contaminated firefighting water separately, must not be discharged into the drains.

Keep containers cool by spraying with water if exposed to fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel :

Evacuate non-essential staff and those not equipped with individual protection apparatus.

6.1.2. For emergency responders :

Evacuate the personnel to a safe location.

Keep people upwind and away from the location of the flow/leak.

Use personal protection equipment.

6.2. Environmental precautions

Intervention limited to trained staff.

Do not discharge the product directly to sewer or to environment.

Take as soon as possible all incompatible materials away.

6.3. Methods and material for containment and cleaning up

Small spillage :

Wash with plenty of water.

Large spillage :

Mark out, soak up with an inert absorbant and pump in an emergency tank.

Never return spills in original containers for re-use.

Keep in suitable, properly labelled and closed containers for disposal.

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6.4. Reference to other sections

Respect protective measures presented at heading 8.
Refer to section 13 for the elimination.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Handle the product with care.
Avoid contact with skin, eyes and clothing.
To handle in well ventilated zones.
When using do not eat, drink or smoke.
Do not mix with a chlorinated alkaline product.
Do not mix with an alkali.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1. Storage :

Keep only in original packaging.
Keep container closed.
Store at a temperature not exceeding 40°C.
Keep away from products sensitive to acids.

7.2.2. Packaging or wrapping materials :

High density polyethylene recommended.

7.3. Specific end use(s)

OCTACID ONE is for use as a biocide.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure limit values :

| Substance | CAS number | Country | Type | Value | Unit | Comments | source |
|---|------------|---------|------|-------|------|----------|--------|
| Contains no substances with occupational exposure limit values. | | | | | | | |

8.2. Exposure controls

According to the requirements of Directive 98/24 /EC, the employer is required to conduct a risk assessment and implement appropriate risks management measures.

* For any situation where the absence of risk is not proven, he must consider the substitution or reduction of risk by

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improving in priority processes used and collective protection measures. The effectiveness of the solutions implemented will be checked by measurement in comparison to the statutory limit values for substances defined in Section 8.1.

* If the risk remains after these corrective actions, he must always check by routinely measuring compliance with regulatory OEL if they exist in section 8.1 and apply all the individual protective measures given in section 8.2.

* When formalized risk assessment indicates a low risk to workers' health, control of compliance with regulatory OEL may not be considered and all individual protection measures is not always mandatory.

8.2.1. Appropriate engineering controls :

Ensure sufficient air exchange and/or exhaust in work areas.

Corrosive product : avoid contact with skin and mucous membranes, avoid splashing.

8.2.2. Individual protection measures, such as personal protective equipment :

Eye/face protection :

Use safety glasses or facial screen in conformity with the EN 166 standard.



Hand protection :

Use chemical resistant gloves approved to EN 374.

Examples of preferred materials for insulating gloves:

Butyl rubber.

Neoprene.

PVC



Skin protection :

Wear boots and a protective cloth with chemical resistance.



Respiratory protection :

None under normal conditions of use.

Thermal hazards :

Not applicable

Health measures :

Safety shower and eye wash fountain near to workplace.

After using, wash systematically all personal protective equipment.

Handle in accordance with good industrial hygiene practices and the safety instructions.

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8.2.3. Environmental exposure controls :

Do not discharge the product directly to sewer or to environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| | |
|--|-------------------------------------|
| Appearance | Clear to slight opalescent liquid |
| Colour | Colourless to slightly yellowish |
| Odour | Characteristic of octanoic acid |
| Odour threshold | Not available |
| Freezing point | <= -15 °C |
| Melting point | Not applicable |
| Boiling point | Not available |
| Flammability | Not applicable |
| Lower explosive limit | Not applicable |
| upper explosive limit | Not applicable |
| Flash point | Not applicable |
| Auto-ignition temperature | Not applicable |
| Decomposition temperature | Not available |
| pH value at 10g/l | 1.7±0.2 |
| Pure pH | < 1 |
| kinematic viscosity | Not available |
| Solubility in water | Soluble in water in all proportions |
| Solubility | Not applicable |
| Partition coefficient: n-octanol/water | Not applicable |
| Vapour pressure | Not available |
| Relative density | 1.09±0.01 |
| Mass density (20°C) | 1.09±0.01 g/cm ³ |
| Vapour density | Not available |
| Particle characteristics | Not applicable |

9.2. Other information

| | |
|----------------------|----------------|
| Explosive properties | Not applicable |
| Oxidising properties | Not applicable |
| Viscosity | Not available |
| Evaporation rate: | Not available |

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

None under normal conditions of use.

10.2. Chemical stability

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Stable in the recommended storage and handling conditions.

10.3. Possibility of hazardous reactions

Exothermic reactions with alkalis.

10.4. Conditions to avoid

None to our knowledge.

10.5. Incompatible materials

Metals.

Alkalines.

Chlorinated alkalis.

10.6. Hazardous decomposition products

Formation of toxic products through combustion: carbon oxides, sulphur oxides.

In presence of metal, release of hydrogen that is flammable and/or explosive if it catches fire.

These data are given for the concentrated mixture. The use of the mixture under its diluted form must be performed in conformity with data given by the technical data sheet and the technical adviser.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) N°1272/2008

Substance-related data:

Acute toxicity

Hexan-1-ol, ethoxylated : LD 50 - oral rat 500 mg/kg. - MSDS supplier

Methanesulphonic acid (70%) : LD 50 - oral rat (OECD 401): 1,158 mg/kg. - MSDS supplier

N,N-Dimethyl-1-Decanamin, N-Oxid (30%) : LD 50 - oral rat 1,000 mg/kg. - MSDS supplier

Skin corrosion/irritation

N,N-Dimethyl-1-Decanamin, N-Oxid (30%) : Skin irritation . Irritating - MSDS supplier

Methanesulphonic acid (70%) : Skin corrosion/irritation . Serious damage to eyes; Causes severe burns. - MSDS supplier

Octanoic acid (100%) : Skin corrosion/irritation . Causes burns. - MSDS supplier

Serious damage to eyes/eye irritation

N,N-Dimethyl-1-Decanamin, N-Oxid (30%) : Eye irritation . Risk of serious damage of eyes - MSDS supplier

Hexan-1-ol, ethoxylated : Ocular corrosivity rabbit . Causes serious eye damage according to the criteria of Regulation 1272/2008/EC. - MSDS supplier

Methanesulphonic acid (70%) : Serious damage to eyes/eye irritation . Serious damage to eyes - MSDS supplier

Sensitisation

Methanesulphonic acid (70%) : Cutaneous contact (OECD 406): . Not sensitising - MSDS supplier

Specific target organ toxicity - single exposure

Methanesulphonic acid (70%) : Inhalation : . Can induce irritations - MSDS supplier

Mix-related data:

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Acute toxicity

. Not determined

Skin corrosion/irritation

Skin corrosivity . The mix is considered to be corrosive for the skin under the criteria of Regulation 1272/2008/EC.

Serious damage to eyes/eye irritation

Ocular corrosivity . Causes serious eye damage according to the criteria of Regulation 1272/2008/EC.

Mutagenicity

. The classification criteria are not met given the available data.

Carcinogenicity

. The classification criteria are not met given the available data.

Reproductive toxicity

. The classification criteria are not met given the available data.

Specific target organ toxicity - single exposure

. The mixture is considered as being irritating to respiratory tract according to the criteria of Regulation 1272/2008/EC.

Specific target organ toxicity - repeated exposure

. The classification criteria are not met given the available data.

Aspiration hazard

. The classification criteria are not met given the available data.

Most important symptoms and effects, both acute and delayed :

Skin contact : Corrosive : Causes severe burns.

Eye contact : Causes serious eye damage.

Ingestion : Causes severe burns in mouth and digestive tract.

Inhalation : May cause respiratory irritation.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Not concerned

SECTION 12: ECOLOGICAL INFORMATION

12.1. à 12.4. Toxicity - Persistence and degradability - Bioaccumulative potential - Mobility in soil

Substance-related data:

Acute toxicity

Hexan-1-ol, ethoxylated : LC 50 - 96h fishes (Brachydanio rerio) > 100 mg/L. - MSDS supplier

Methanesulphonic acid (70%) : LC 50 - 96h fishes (Oncorhynchus mykiss) (OECD 203): 73 mg/L. - MSDS supplier

Methanesulphonic acid (70%) : EC 50 - 16h bacterias (Pseudomonas putida) 1.8 mg/L. - MSDS supplier

Methanesulphonic acid (70%) : IC 50 - 72h algae (Selenastrum capricornutum) (OECD 201): 12 - 24 mg/L. - MSDS supplier

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Hexan-1-ol, ethoxylated : EC 50 - 48h daphnia (*Daphnia magna*) > 100 mg/L. - MSDS supplier
Hexan-1-ol, ethoxylated : EC 50 - 72h algae (*Scenedesmus subspicatus*) > 100 mg/L. - MSDS supplier
Hexan-1-ol, ethoxylated : EC 50 (Microorganisms / activated sludge) > 1,000 mg/L. - MSDS supplier
Octanoic acid (100%) : LC 50 fishes (*Lepomis macrochirus*) (OECD 203): 22 mg/L. - Bibliography

Degradability

Methanesulphonic acid (70%) : DOC reduction - 28days (OECD 301 A): 100 %. Easily biodegradable. - MSDS supplier
N,N-Dimethyl-1-Decanamin, N-Oxid (30%) : Biodegradability - 28days (OECD 301 E): 97 %. Easily biodegradable. - MSDS supplier
Methanesulphonic acid (70%) : Biodegradability (OECD 301A): > 70 %. Easily biodegradable. - MSDS supplier

Mix-related data:

Acute toxicity

fishes . Not determined
daphnia . Not determined
algae . Not determined

Chronic toxicity

. No data available.

Degradability

. The surface agents contained in this mix are in line with the requirements of the Detergent Regulation 648/2004/EC.

Bioaccumulation

. No data available.

Mobility

. No data available.

Conclusion:

The mixture is considered to be dangerous for the environment according to 1272/2008/EC Regulation.

12.5. Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB

12.6 Endocrine disrupting properties

Not concerned

12.7. Other adverse effects

No additional information available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Treatment of the mixture:

Do not discharge the product directly to sewer or to environment.

Comply with Directive 2008/98/EC of 19/11/2008 amended, relating to waste and to Decision 2000/532/

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EC (amended ultimately by Decision 2014/955/EC) that establishes a list of hazardous waste that must be taken to an approved centre.

Packaging treatment :

Rinse thoroughly the packaging with water and treat the effluent like wastes.

Comply with Directive 2008/98/EC of 19/11/2008 amended, relating to waste and to Decision 2000/532/EC (amended ultimately by Decision 2014/955/EC) that establishes a list of hazardous waste that must be taken to an approved centre.

SECTION 14: TRANSPORT INFORMATION

ROAD TRANSPORT: Rail/Route (RID/ADR)

14.1 UN no : 3265

14.2 UN proper shipping name :

CORROSIVE LIQUID, ACIDIC ORGANIC, N.O.S. (Methanesulphonic acid)

14.3 Transport hazard class(es) : 8

14.4 Packing group : II

Hazard identification number : 80

Label : 8



Tunnel code : (E)

14.5 Environmental hazard : No

14.6 Special precautions for user : No information.

Limited Quantity (QL): 1L

MARITIME TRANSPORT : IMDG

14.1 UN no :3265

14.2 UN proper shipping name : CORROSIVE LIQUID, ACIDIC ORGANIC, N.O.S. (Methanesulphonic acid)

14.3 Transport hazard class(es) : 8



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14.4 Packing group : II

14.5 Environmental hazard

Marine pollutant : No

14.6 Special precautions for user : No information.

EmS number : F-A,S-B

:alkalis

Limited Quantity (QL): 1L

14.7 Maritime transport in bulk according to IMO instruments : Not concerned

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EU) n°528/2012 concerning the making available on the market and use of biocidal products :

Active ingredient: Octanoic acid

Regulations relating to the hazards from major accidents :

SEVESO 3 Directive (2012/18/EC) : Not concerned

Regulations relating to the classification, packaging and labelling of substances and mixtures :

Regulation (EC) 1272/2008 amended.

Waste regulations :

2008/98/EC Directive amended by 2015/1127/EC Directive - Regulation 1357/2014/EC

Decision 2014/955/EC which establishes the list of hazardous waste.

Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals : Not concerned

Protection of workers :

Directive 98/24/EC of 07/04/1998 on the protection of the health and safety of workers from the risks related to chemical agents at work.

Regulation (EU) 2019/1021 of 20 June 2019 on persistent organic pollutants : Not applicable

Regulation (EC) 1005/2009 amended on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors:

Not concerned

Regulation (EC) 648/2004 :

In conformity with the regulation in force on detergents: Regulation (EC) N° 648/2004.

Ingredient datasheet for the medical staff is available upon written request.

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Contains :

5-15% Non-ionic surfactants

Disinfectants

Comply with national and local legislation.

15.2. Chemical safety assessment

This safety data sheet has been drafted taking into account the information from exposure scenarios for the substances making up the mixture.

SECTION 16: OTHER INFORMATION

The safety data sheet is additional to the technical data sheet but does not replace it. The information given here in is to the best of our knowledge correct and is given in good faith. We must also draw the user's attention on potential risks of the product is used for other purposes for which the product is known.

In no way does it exempt users from being aware of and complying with regulations applicable to their activity. It is their sole responsibility to take all necessary precautions in accordance to the usage of the product they are aware of.

Regulations are only stated in order to help users fulfill the duties involved in the use of the product.

This description should not be considered as exhaustive. It does not exempt users from ensuring if other demands need to be complied with-according to other laws than the ones hereby stated and applicable to holding and usage of the product-demands for which they will remain sole responsibility.

Section(s) modified compared with the previous version :

Not concerned

List of H phrases referred to in section 3 :

H290 : May be corrosive to metals.

H302 : Harmful if swallowed.

H312 : Harmful in contact with skin.

H314 : Causes severe skin burns and eye damage.

H318 : Causes serious eye damage.

H335 : May cause respiratory irritation.

H400 : Very toxic to aquatic life.

H411 : Toxic to aquatic life with long lasting effects.

H412 : Harmful to aquatic life with long lasting effects.

Sources of key data used to compile the data sheet :

MSDS supplier

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Cancel and replaces previous version .