

Safety Data Sheet

Deca

VMBUILDINGSOLUTIONS

Version: 5

Version date: 11/12/2023

Language: EN

According to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) No. 2020/878)

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Trade name/designation : Deca.
 Article No (user) : UFI: YM5D-12F4-900N-TNQ1.

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses : Acid pickling solution for metal surfaces.
 Uses advised against : Other than recommended uses.

1.3. Details of the supplier of the safety data sheet

Supplier : **Name:** VM Building Solutions
Street: 3, place Aimé Césaire
Postal code/City: 93100 MONTREUIL
Country: France :
E-mail: info.ipds@vmzinc.com

1.4. Emergency Telephone Number

United Kingdom:

+35625454030 +35 (0) 31 837 9964 (medical professionals) +35 (0) 31 809 2166 (public) In England and Wales: dial 111 (NHS 111), In Scotland: dial 111 (NHS 24), In Northern Ireland: Contact your local GP or pharmacist during normal hours. During GP Out-of-Hours (www.gpoutofhours.hscni.net/): Belfast HSC Trust, (North & West) 028 9074 4447, (South & East) 028 9079 6220 South Eastern HSC Trust, (North Down & Ards) 028 9182 2344, (Lisburn & Downpatrick) 028 9260 2204, Dalriada Urgent Care (Northern Trust area) 028 2566 3500, Southern HSC Trust 028 3839 9201, Western Urgent Care 028 7186 5195.

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to the regulation (EC) n°1272/2008 (CLP) and its amendments

Hazards identification:

H272	Ox. Liq. 2	May intensify fire; oxidiser.
H290	Met. Corr. 1	May be corrosive to metals.
H314	Skin Corr. 1A	Causes severe skin burns and eye damage
H318	Eye Dam. 1	Causes serious eye damage
H335	STOT SE 3 H335	May cause respiratory irritation

2.2. Label elements

Label elements according to the regulation (EC) n°1272/2008 (CLP) and its amendments

Labelling

Hazard pictograms



Signal word

Danger

Hazard Statements

H272	May intensify fire; oxidiser.
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H335	May cause respiratory irritation

Precautionary Statements - Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P220	Keep/Store away from clothing/.../combustible materials.
P234	Keep only in original container.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash ... thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statements - Response

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/doctor/...
 P363 Wash contaminated clothing before reuse.
 P370+P378 In case of fire: Use... to extinguish.
 P390 Absorb spillage to prevent material damage.

Precautionary Statements - Storage

P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 P405 Store locked up.
 P406 Store in corrosive resistant/... container with a resistant inner liner.

Precautionary Statements - Disposal

P501 Dispose of contents and container in accordance with local regulations.

Contains

hydrogen chloride, acetic acid, indium trichloride, perchloric acid

2.3. Other hazards

According to Regulation (EU) 1907/2006, no substances are assessed as PBT or vPvB.

According to Regulation (EU) 2017/2100 or Regulation (EU) 2018/605, no substances are known to have endocrine disrupting properties.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

In accordance with the product knowledge, no nanomaterials have been identified.

The mixture does not contain any substances classified as Substances of Very High Concern (SVHC) by the European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>.

Substance	Concentration (%)	Specific concentration limits	Classification
hydrogen chloride [1]			
CAS N° 7647-01-0 EC N° 231-595-7 IDX N° 017-002-00-2 Registration number	20.0% ≤ C < 25.0%	Skin Corr. 1B, : C ≥ 25 % STOT SE 3, : C ≥ 10 % Skin Irrit. 2, : 10 % ≤ C < 25 % Eye Irrit. 2, : 10 % ≤ C < 25 %	H290 Met. Corr. 1 H314 Skin Corr. 1B H335 STOT SE 3 H335
acetic acid [1]			
CAS N° 64-19-7 EC N° 200-580-7 IDX N° 607-002-00-6 Registration number 01-2119475328-30-XXXX	15.0% ≤ C < 20.0%	Skin Corr. 1B, : 25 % ≤ C < 90 % Skin Irrit. 2, : 10 % ≤ C < 25 % Skin Corr. 1A, : C ≥ 90 % Eye Irrit. 2, : 10 % ≤ C < 25 %	H226 Flam. Liq. 3 H314 Skin Corr. 1A
indium trichloride			
CAS N° 10025-82-8 EC N° 233-043-0 IDX N° Registration number	5.0% ≤ C < 7.0%		H302 Acute Tox. 4 ORAL H314 Skin Corr. 1A
perchloric acid			
CAS N° 7601-90-3 EC N° 231-512-4 IDX N° 017-006-00-4 Registration number 01-2119978750-27-XXXX	3.0% ≤ C < 5.0%		H271 Ox. Sol. 1 H302 Acute Tox. 4 ORAL H314 Skin Corr. 1B H373 STOT RE 2

[1] Substance for which maximum workplace exposure limits are available.

Remark

Text phrases and H- EUH-: see section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information:

Rescue workers are responsible for their own protection.

When danger of unconsciousness of the patient, arrangement and transport in stable lateral position.

Move the victim away from the danger zone.

Stay warm, calm and covered.

Remove contaminated clothing immediately.

Do not give anything to an unconscious person.

In case of poisoning, call a poison control center or doctor for treatment advice, using the product packaging or label.

Symptoms of poisoning may appear even several hours later, so medical supervision is necessary for at least 48 hour after the accident.

Following inhalation:

Immediate medical assistance.

Remove the patient to fresh air and allow him/her to rest in a quiet place.

If breathing is irregular or has stopped, perform artificial respiration.

Following skin contact:

Rinse with plenty of water for at least 15 minute.

Remove contaminated clothing immediately and clean before reuse or discard if necessary.

Immediate medical assistance.

Following eye contact:

Remove contact lenses, if applicable.

Immediately rinse thoroughly under running water for at least 15 minute, holding eyelids apart.

Consult an ophthalmologist.

Immediate medical assistance.

Following ingestion:

Call a physician immediately.

Do not induce vomiting as there is an aspiration hazard.

Immediately rinse mouth with water.

Keep victim at rest.

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

Symptoms:

Respiratory tract irritation and skin irritation.

Effects:

Hazards: May cause severe burns of the mouth and throat if swallowed, as well as a risk of perforation of the esophagus and stomach.

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

Treatment: Symptomatic treatment (decontamination, vital functions).

Antidote: No specific antidote known.

Special treatment.

Symptomatic treatment (decontamination, vital functions).

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media:

Carbon dioxide (CO₂).

Alcohol-resistant foam.

Extinguishing powder.

Water spray.

Unsuitable extinguishing media:

Strong water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous substances: carbon oxides, chlorine compounds.

Tip: Fire produces intense black smoke.

Inhalation of hazardous decomposed materials can cause serious damage to health.

May cause fire or explosion; strong oxidiser.

5.3. Advice for firefighters

Special protective equipment:

Appropriate respiratory equipment may be required.

Additional information

Cool closed containers in the vicinity of a fire.

Dispose of combustion residues and contaminated water in accordance with local regulations.

The product itself is not combustible; define extinguishing media according to the presence of a fire in the vicinity.

Collect contaminated extinguishing water separately, do not allow it to enter drains or sewers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Avoid breathing vapours.

For non-emergency personnel: Use personal protective clothing.

Ensure good ventilation of premises.

Keep away from ignition sources.

For emergency responders: Advice on handling the product can be found in sections 7 and 8 of this safety data sheet.

Information about personal protective equipment: see section 8.

6.2. Environmental precautions

Do not discharge into sewers or waterways.

Do not discharge into the ground/subsoil.

If product enters drains or sewers, notify the local water company immediately; in the event of contamination of streams, rivers or lakes, notify the Environment Agency.

6.3. Methods and material for containment and cleaning up

Contain and collect residues using a non-flammable absorbent, such as sand, earth, vermiculite, diatomaceous earth, and store in a suitable container for disposal in accordance with waste regulations.

Clean preferably with detergent; avoid solvents.

6.4. Reference to other sections

Disposal: see section 13.

Personal protection equipment: see section 8.

Additional information

Not available

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

PROTECTIVE MEASURES:

Ensure good ventilation of the premises, if necessary vacuum the workplace.

Do not return residual quantities to storage containers.

Smoking, eating and drinking are prohibited in the application areas.

See section 8 for more information on personal protection.

Comply with occupational health and safety legislation.

Avoid breathing vapours or spray.

The workstation should be equipped with an emergency shower and an eye shower.

Avoid contact with skin, eyes, clothing.

Observe normal precautionary measures when handling chemicals.

Fire and explosion protection: the relevant fire safety measures must be observed.

The product itself does not burn, but it is an oxidizer. (oxidizer).

Advices on general occupational hygiene:

Do not breathe vapour/aerosol.

Eyewash fountains and safety showers should be easily accessible.

Avoid contact with skin, eyes, clothing.

Observe normal precautionary measures when handling chemicals.

Remove contaminated clothing and dispose of it carefully.

Wash hands and/or face before breaks and after work.

Keep away from food and feed.

In the immediate working surroundings there must be:

Provide eye shower and label its location conspicuously.

7.2. Conditions for safe storage, including any incompatibilities

Separate bases.

Keep away from oxidizing, strongly alkaline and strongly acidic materials.

Suitable materials: High density polyethylene (HDPE), Low density polyethylene (LDE), Polyethylene terephthalate (PET), Polypropylene.

Further information on storage conditions: Keep container dry.

Keep in a cool, well-ventilated place.

Avoid direct sunlight. Store only in corrosion-resistant packaging.

Close containers carefully after opening, and store upright to prevent leakage.

No smoking.

No admission for unauthorized personnel.

Avoid contact with metals.

Protect from frost.

Storage stability: Storage temperature: 0 - 45 °C.

7.3. Specific end uses

For the relevant use(s) identified in heading 1, the advice given in this heading 7 must be followed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits:

Substance	Value	Unit	Type
acetic acid CAS: 64-19-7 (GB)	20	ppm	Exposure limit (15 minutes)
acetic acid CAS: 64-19-7 (GB)	50	mg/m ³	Exposure limit (15 minutes)
hydrogen chloride CAS: 7647-01-0 (GB)	5	ppm	Exposure limit (15 minutes)
hydrogen chloride CAS: 7647-01-0 (GB)	8	mg/m ³	Exposure limit (15 minutes)
acetic acid CAS: 64-19-7 (GB)	10	ppm	Exposure limit (8 hours)
acetic acid CAS: 64-19-7 (GB)	25	mg/m ³	Exposure limit (8 hours)
hydrogen chloride CAS: 7647-01-0 (GB)	1	ppm	Exposure limit (8 hours)
hydrogen chloride CAS: 7647-01-0 (GB)	2	mg/m ³	Exposure limit (8 hours)

Biological limit values:

Not available

Exposure limits at intended use:

Not available

DNEL-/PNEC-values:

• acetic acid:

DNEL worker:

Type	short-term		long-term	
	systemic	Local	systemic	Local
Oral				
Dermal				
Inhalation			25mg/m ³ .	

DNEL consumer:

Type	short-term		long-term	
	systemic	Local	systemic	Local
Oral			7.2 mg/kg bw/day	
Dermal			72 mg/kg bw/day	
Inhalation			25mg/m ³ .	

PNEC:

PNEC aquatic, freshwater	3.058 mg/l
PNEC aquatic, marine water	0.3058 mg/l
PNEC aquatic, intermittent release	30.58 mg/l
PNEC sediment, freshwater	11.36 mg/kg dw
PNEC sediment, marine water	1.136 mg/kg dw
PNEC soil	0.478 mg/kg dw
PNEC sewage treatment plant (STP)	85 mg/l
PNEC air	
PNEC secondary poisoning	

• hydrogen chloride:

DNEL worker:

Type	short-term		long-term	
	systemic	Local	systemic	Local
Oral				
Dermal				
Inhalation		15 mg/m ³		8 mg/m ³

DNEL consumer:

Not available

PNEC:

PNEC aquatic, freshwater	0.036 mg/l
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PNEC aquatic, marine water	0.036 mg/l
PNEC aquatic, intermittent release	0.045 mg/l
PNEC sediment, freshwater	
PNEC sediment, marine water	
PNEC soil	0.036 mg/l
PNEC sewage treatment plant (STP)	
PNEC air	
PNEC secondary poisoning	

Remark:

Not available

8.2. Exposure controls**Appropriate engineering controls:**

Ensure adequate ventilation.

Local exhaust ventilation with good general suction should be used.

If this is not sufficient to keep particle and vapour concentrations below workplace exposure limits, use suitable certified respirators.

Individual protection measures, such as personal protective equipment:**Eye/face protection****: Recommended eye protection articles:**

Full protection safety glasses (full protection glasses) (EN 166).

Skin protection**: Hand protection:****Suitable gloves type:**

Chemical-resistant protective gloves.

The protective glove must be tested for its particular suitability (e.g. mechanical strength, product compatibility, anti-static properties).

Gloves must be replaced immediately if they are damaged or show signs of wear.

Preventive skin protection (skin cream) is recommended.

Suitable material:

EN ISO 374-1) fluoroelastomer (FKM) - 0.7 mm coating thickness.

Permeation time (maximum wear duration):

Protection class 6, corresponding to a permeation time of >480 minutes according to EN ISO 374-1.

Body protection:**Recommended protective clothing articles:**

Body protection: Chemical-resistant protective clothing to DIN EN 13034 (type 6).

Respiratory protection**: Recommended respiratory protection articles:**

Respiratory protective equipment: Respiratory protection required if the exposure limit value (if applicable) is likely to be exceeded (Combination filter EN 14387 ABEK).

Environmental exposure controls:

Not available

Consumer exposure controls:

Not available

Additional information

Not available

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties**

Physical state	: Liquid
Colour	: Colorless To Yellowish
Odour	: Piquante
pH	: 0.1
Melting point/freezing point	: Not available
Initial boiling point and boiling range	: Not available
Flash point	: >95°C No Flash Point - Measured Up To The Indicated Temperature, The Ignition Flame Goes Out.°C
Flammability	: Flame Retardant
Upper/lower flammability or explosive limits	: Not available
Vapour pressure	: Not available
Vapour density	: Not available

Relative density	:	1.210g/cm ³ (20 °C)
Solubility(ies)	:	Dilutable.
Partition coefficient n-octanol/water (log value)	:	Not applicable
Auto-ignition temperature	:	Not available
Decomposition temperature	:	Not available
Kinematic viscosity	:	Not applicable
Explosive properties	:	No Explosive Properties
Solubility in other Solvents	:	Dilutable.
Particle characteristics	:	Not applicable

9.2. Other safety information

Information concerning to the classes of physical hazards

Not available

Other security characteristics

Ability to self-heat: This is not a self-heating product.

Miscibility with water: Miscible.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No hazardous reactions, if the instructions/directions for storage and handling are followed.

Corrosion of metals: Corrosive effect on metals.

10.2. Chemical stability

The product is stable when the prescriptions/recommendations for storage are respected.

10.3. Possibility of hazardous reactions

Reacts as a strong oxidizing agent with all oxidizable organic and inorganic substances.

Fire hazard. Reaction with metals, formation of hydrogen.

10.4. Conditions to avoid

Avoid all sources of ignition: heat, sparks, open flames.

Avoid direct natural lighting.

Prevent from freezing.

Avoid contact with metals.

10.5. Incompatible materials

Materials to avoid: bases, Keep away from highly acidic or alkaline substances such as oxidizers to avoid exothermic reactions. organic substances, flammable and oxidizable substances.

10.6. Hazardous decomposition products

Possible decomposition products: When exposed to elevated temperatures, hazardous decomposition products such as carbon monoxide, carbon dioxide, smoke and nitrogen oxides may be produced,.

No hazardous decomposition products if the instructions/directions for storage and handling are followed.

Additional information

Not available

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity:

Not available.

Substances:

Not available

Acute dermal toxicity:

Not available.

Substances:

Not available

Acute inhalation toxicity:

Not available.

Substances:

Not available

Skin corrosion/irritation:

Not available.

Substances:

Not available

Serious eye damage/irritation:

Not available.

Substances:

Not available

Skin sensitisation:

Not available.

Substances:

Not available

Specific target organ toxicity (repeated exposure):

Not available.

Substances:

Not available

Specific target organ toxicity (single exposure):

Not available.

Substances:

Not available

Carcinogenicity:

Not available.

Substances:

Not available

Reproductive toxicity:

Not available.

Substances:

Not available

Germ cell mutagenicity:

Not available.

Substances:

Not available

Sensitisation to the respiratory tract:

Not available.

Substances:

Not available

Additional information:

Not available

11.2. Information on other hazards

Endocrine disrupting properties:

According to Regulation (EU) 2017/2100 or Regulation (EU) 2018/605, no substances are known to have endocrine disrupting properties.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Based on available data, the classification criteria are not met.

Substances:

Not available

12.2. Persistence and degradability

The product has not been tested.

Substances:

Not available

12.3. Bioaccumulative potential

The product has not been tested.

Substances:

Not available

12.4. Mobility in soil

The product has not been tested.

Substances:

Not available

12.5. Results of PBT and vPvB assessment

According to Regulation (EU) 1907/2006, no substances are assessed as PBT or vPvB.

12.6. Endocrine disrupting properties

According to Regulation (EU) 2017/2100 or Regulation (EU) 2018/605, no substances are known to have endocrine disrupting properties.

12.7. Other adverse effects

Not available

Additional ecotoxicological information

Not available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Product/Packaging disposal:

Waste codes/waste designations according to EWC/AVV:

The waste code must be assigned by the user, if possible in agreement with the authorities responsible for waste disposal.

Waste treatment options:

National and local regulations must be observed.

No disposal through sewage or wastewater systems.

Dispose of the substance/product as special waste in accordance with Directive 2008/98/EC.

Un-cleaned packaging.





Containers that are not properly emptied must be disposed of in accordance with Directive 2008/98/EC.

Used packaging must be emptied in the best possible way and disposed of like the product.

Additional information

Not available

SECTION 14: TRANSPORT INFORMATION

		Land transport (ADR/RID):	Inland waterway transport (ADN):	Sea transport (IMDG):	Air transport (ICAO- TI/IATA-DGR):
14.1	UN number:	3093	3093	3093	3093
14.2	UN proper shipping name:	CORROSIVE LIQUID, OXIDIZING, N.O.S.	CORROSIVE LIQUID, OXIDIZING, N.O.S.	CORROSIVE LIQUID, OXIDIZING, N.O.S.	CORROSIVE LIQUID, OXIDIZING, N.O.S.
14.3	Transport hazard class(es):				
	Class or Division:	8	8	8	8
	Hazard label(s):				
14.4	Packing group:	II	II	II	II

14.5. Environmental hazards

Not available

14.6. Special precautions for user

Not available

14.7. Bulk shipping according to IMO instruments

Not available

Additional information

Not available

SECTION 15: REGULATORY INFORMATION**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

This SDS has been established in accordance with REACH regulation, including its amendments: REACH Regulation (EC) No 1907/2006.

This SDS has been established in accordance with CLP regulation, including its amendments: CLP Regulation EC No. 1272/2008.

EU legislation:**Other regulations (EU):****Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]:**

"Category 1, 2 or 3 oxidizing liquids. The total quantity likely to be present in the installation being: 1. greater than or equal to 50

t.....A 2. Greater than or equal to 2 t but less than 50

t.....D Low threshold quantity as defined in article R. 511-10: 50 t High threshold quantity as defined in article R. 511-10: 200 t".

EU legislation:**Occupational Exposure Limit Values (long term) - European Union:**

Substance	CAS	EC
hydrogen chloride	7647-01-0	231-595-7
acetic acid	64-19-7	200-580-7

Occupational Exposure Limit Values (short term) - European Union:

Substance	CAS	EC
hydrogen chloride	7647-01-0	231-595-7
acetic acid	64-19-7	200-580-7

REACH: Annex XVII (Restrictions):

Substance	CAS	EC
acetic acid	64-19-7	200-580-7

Seveso III : Substances nommément désignées:

Substance	CAS	EC
hydrogen chloride	7647-01-0	231-595-7

National regulations:**Occupational Exposure Limit Values (long term) - Canada (Ontario):**

Substance	CAS	EC
acetic acid	64-19-7	200-580-7

Occupational Exposure Limit Values (long term) - Canada (Quebec):

Substance	CAS	EC
acetic acid	64-19-7	200-580-7

Occupational Exposure Limit Values (long term) - Ireland:

Substance	CAS	EC
hydrogen chloride	7647-01-0	231-595-7
acetic acid	64-19-7	200-580-7

Occupational Exposure Limit Values (long term) - NZ:

Substance	CAS	EC
acetic acid	64-19-7	200-580-7

Occupational Exposure Limit Values (long term) - Singapore:

Substance	CAS	EC
acetic acid	64-19-7	200-580-7

Occupational Exposure Limit Values (long term) - US (NIOSH):

Substance	CAS	EC
acetic acid	64-19-7	200-580-7

Occupational Exposure Limit Values (long term) - US (OSHA):

Substance	CAS	EC
acetic acid	64-19-7	200-580-7

Occupational Exposure Limit Values (long term) - United Kingdom:

Substance	CAS	EC
hydrogen chloride	7647-01-0	231-595-7
acetic acid	64-19-7	200-580-7

Occupational Exposure Limit Values (short term) - Canada (Ontario):

Substance	CAS	EC
hydrogen chloride	7647-01-0	231-595-7
acetic acid	64-19-7	200-580-7

Occupational Exposure Limit Values (short term) - Canada (Quebec):

Substance	CAS	EC
hydrogen chloride	7647-01-0	231-595-7
acetic acid	64-19-7	200-580-7

Occupational Exposure Limit Values (short term) - Ireland:

Substance	CAS	EC
hydrogen chloride	7647-01-0	231-595-7
acetic acid	64-19-7	200-580-7

Occupational Exposure Limit Values (short term) - NZ:

Substance	CAS	EC
acetic acid	64-19-7	200-580-7

Occupational Exposure Limit Values (short term) - Singapore:

Substance	CAS	EC
hydrogen chloride	7647-01-0	231-595-7
acetic acid	64-19-7	200-580-7

Occupational Exposure Limit Values (short term) - US (NIOSH):

Substance	CAS	EC
hydrogen chloride	7647-01-0	231-595-7
acetic acid	64-19-7	200-580-7

Occupational Exposure Limit Values (short term) - US (OSHA):

Substance	CAS	EC
hydrogen chloride	7647-01-0	231-595-7

Occupational Exposure Limit Values (short term) - United Kingdom:

Substance	CAS	EC
hydrogen chloride	7647-01-0	231-595-7
acetic acid	64-19-7	200-580-7

U.S. - NY - RTK:

Substance	CAS	EC
hydrogen chloride	7647-01-0	231-595-7
acetic acid	64-19-7	200-580-7
perchloric acid	7601-90-3	231-512-4

15.2. Chemical Safety Assessment

Chemical Safety Assessment (CSA) not required.

Additional information

Not available

SECTION 16: OTHER INFORMATION**Indication of changes**

Not applicable (first edition of the MSDS).

Abbreviations and acronyms

CAS: Chemical Abstract Service Number.

IATA: International Air Transport Association.

IMDG: International Maritime Dangerous Goods Code.

DPD Dangerous Preparation Directive.

UN number: United Nations number.

No EC: European Commission Number.

ADN/ADNR: Regulations concerning the transport of dangerous substances in barges on the waterways.

ADR/RID: European Agreement concerning the International Carriage of Dangerous Goods by Road/Regulations concerning the international carriage of dangerous goods by rail.

CLP: Classification, labeling and packaging.

VPvB: very persistent and very bioaccumulative substances.

Key literature references and sources for data

No data available.

Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]

Complies with ATP 18, Regulation (EU) n°2022/692.

Classification of the mixture is in accordance with the evaluation method described in Regulation (EC) No 1272/2008.

Relevant R-, H- and EUH-phrases (Number and full text)

H226	Flam. Liq. 3	Flammable liquid and vapour.
H271	Ox. Sol. 1	May cause fire or explosion; strong oxidiser.
H272	Ox. Liq. 2	May intensify fire; oxidiser.
H290	Met. Corr. 1	May be corrosive to metals.
H302	Acute Tox. 4 ORAL	Harmful if swallowed
H314	Skin Corr. 1A	Causes severe skin burns and eye damage
H318	Eye Dam. 1	Causes serious eye damage
H335	STOT SE 3 H335	May cause respiratory irritation
H373	STOT RE 2	May cause damage to organs through prolonged or repeated exposure

Training advice

Refer to Sections 4, 5, 6, 7 and 8 of this safety data sheet.

Additional information

Creation date: 12/03/2021

Version date: 11/12/2023

Printing date: 12/12/2023

The information given in this Safety Data Sheet is based on our present knowledge and national regulations. This Safety Data Sheet describes safety requirements relative to identified uses, it doesn't guarantee all the product properties particularly in the case of non identified uses. The product mustn't be used for any uses other than those identified under heading 1. Since the user's working conditions are not known by us, it is the responsibility of the user to take all necessary measures to comply with legal requirements for specific uses and avoid negative health effects.