

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: SPIRITS OF SALTS
Product code: 251
INCI name: HYDROCHLORIC ACID >25%

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

1.3. Details of the supplier of the safety data sheet

Company name: Chela Ltd
68 Bilton Way
Enfield
EN3 7NH
UK
Tel: +44 (0)20 8805 2150
Fax: +44 (0)20 8443 1868
Email: sales@chela.co.uk

1.4. Emergency telephone number

Emergency tel: +44 (0)20 8805 2150
(office hours only)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Skin Corr. 1B: H314; STOT SE 3: H335

Classification under CHIP: C: R34; Xi: R37

Most important adverse effects: Causes severe skin burns and eye damage. May cause respiratory irritation.

2.2. Label elements

Label elements under CLP:

Hazard statements: H314: Causes severe skin burns and eye damage.
H335: May cause respiratory irritation.

Signal words: Danger

Hazard pictograms: GHS05: Corrosion
GHS07: Exclamation mark



Precautionary statements: P271: Use only outdoors or in a well-ventilated area.

SAFETY DATA SHEET

SPIRITS OF SALTS

Page: 2

P321: Specific treatment (see first aid measure on this label).

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312: Call a POISON CENTER or doctor if you feel unwell.

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

HYDROCHLORIC ACID - REACH registered number(s): 01-2119458860-33-XXXX

EINECS	CAS	CHIP Classification	CLP Classification	Percent
231-595-7	-	-	Skin Corr. 1B: H314; STOT SE 3: H335	30-50%

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water. Consult a doctor.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Consult an eye specialist immediately Go to an ophthalmic hospital if possible

Ingestion: Wash out mouth with water. Never give anything by mouth to an unconscious person. If swallowed, do not induce vomiting Obtain medical attention.

Inhalation: If unconscious and breathing is OK, place in the recovery position. Ensure supply of fresh air

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

Skin contact: Corrosive effect

Eye contact: Corrosive effect Risk of serious damage to eyes

Ingestion: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach

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

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: The product does not burn. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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SAFETY DATA SHEET

SPIRITS OF SALTS

Page: 3

5.2. Special hazards arising from the substance or mixture

Exposure hazards: Gives off Hydrogen by reaction with metals In combustion emits toxic fumes of hydrogen chloride / phosgene.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear appropriate body protection (full protective suit) Suppress (knock down) gaseous vapours/mists with a water spray jet. Collect contaminated fire extinguishing water separately This must not be discharged into drains.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Ensure adequate ventilation of the working area Use personal protective equipment Keep people away from and upwind of spill/leak Avoid skin and eye contact. Ventilate well, avoid breathing vapours.

6.2. Environmental precautions

Environmental precautions: Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb with inert, absorbent material. Sweep up. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS. Refer to section 13 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Handle and open container with care. Wear suitable protective equipment. Ensure there is sufficient ventilation of the area. Avoid direct contact with the substance. Avoid the formation or spread of mists in the air.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: The floor of the storage room must be impermeable to prevent the escape of liquids. Keep container tightly closed. Store in cool, well ventilated area. Keep away from heat, sparks and open flames

Suitable packaging: Glass. Polyethylene. Do not use metal

7.3. Specific end use(s)

Specific end use(s): No data available.

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SAFETY DATA SHEET

SPIRITS OF SALTS

Page: 4

Section 8: Exposure controls/personal protection

8.1. Control parameters

Hazardous ingredients:

HYDROCHLORIC ACID...100%

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	8 mg/m3	8 mg/m3	-	-

DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures: Ensure all engineering measures mentioned in section 7 of SDS are in place.

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment. If exposure limit is exceeded (e.g. OEL). Combination filter: E-P2

Hand protection: Impermeable gloves. Protective gloves should be replaced at first signs of wear

Eye protection: Tightly fitting safety goggles.

Skin protection: Acid-resistant protective clothing.

Environmental: Do not flush into surface water or sanitary sewer systems Avoid subsoil penetration If the product contaminates rivers and lakes or drains inform respective authorities

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Colourless to pale yellow

Odour: Stinging

Oxidising: No data available.

Solubility in water: Miscible

Viscosity: 1.74 mPa.s (20C)

Boiling point/range°C: ca. 90C

upper: No data available.

Vapour pressure: 21.8hPA (20C)

pH: <0.1 (20C)

Flammability limits %: lower: No data available.

Flash point°C: Not applicable.

Relative density: No data available.

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

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SAFETY DATA SHEET

SPIRITS OF SALTS

Page: 5

10.1. Reactivity

Reactivity: No specific reactivity hazards associated with this product.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hydrogen, by reaction with metals explosive properties may develop chlorine if mixed with sodium hypochlorite or oxidizing agents (e.g. potassium permanganate, magnesium oxide and hydrogen peroxide)

10.4. Conditions to avoid

10.5. Incompatible materials

Materials to avoid: Metals. Sodium Hypochlorite Amines. Fluorine Strong oxidising agents. Chlorite Alkali metals.

10.6. Hazardous decomposition products

Haz. decomp. products: Hydrogen Chloride gas

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

HYDROCHLORIC ACID...100%

DERMAL	RBT	LD50	>5010	mg/kg
ORAL	RBT	LD50	900	mg/kg

Relevant effects for mixture:

Effect	Route	Basis
Irritation	INH	Hazardous: calculated
Corrosivity	OPT INH DRM	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: Corrosive effect

Eye contact: Corrosive effect Risk of serious damage to eyes

Ingestion: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach

Section 12: Ecological information

12.1. Toxicity

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SAFETY DATA SHEET

SPIRITS OF SALTS

Page: 6

Hazardous ingredients:

HYDROCHLORIC ACID...100%

ALGAE	72H ErC50	0.78	mg/l
BLUEGILL (Lepomis macrochirus)	96H LC50	24.6	mg/l
Daphnia magna	48H EC50	0.492	mg/l
RAINBOW TROUT (Oncorhynchus mykiss)	96H LC50	7.45	mg/l

12.2. Persistence and degradability

Persistence and degradability: Inorganic product which is not removable from water by biological processes.

12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

12.4. Mobility in soil

Mobility: Not expected to adsorb on soil

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Toxic to aquatic organisms. Neutralization is normally necessary before waste water is discharged into water treatment plants Do not allow to enter soil, waterways or waste water canal

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Dispose of waste and residues in accordance with local authority requirements. Do not let product enter drains.

Recovery operations: Not applicable.

Disposal of packaging: Empty remaining contents Packagings that cannot be cleaned are to be disposed of in the same manner as the product.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: UN1789

14.2. UN proper shipping name

Shipping name: ADR: HYDROCHLORIC ACID
RID: HYDROCHLORIC ACID
IMDG: HYDROCHLORIC ACID

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SAFETY DATA SHEET

SPIRITS OF SALTS

Page: 7

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

Environmentally hazardous: No

Marine pollutant: No

14.6. Special precautions for user

Section 15: Regulatory information

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

Specific regulations: Annual reporting level threshold:10,000kg Occupational restrictions: Take note of Dir 92/85/EEC on the safety and health of pregnant workers at work and of Dir 94/33/EC on the protection of young people at work

15.2. Chemical Safety Assessment

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: H314: Causes severe skin burns and eye damage.

H335: May cause respiratory irritation.

R34: Causes burns.

R37: Irritating to respiratory system.

Legend to abbreviations: PNEC = predicted no effect level

DNEL = derived no effect level

LD50 = median lethal dose

LC50 = median lethal concentration

EC50 = median effective concentration

IC50 = median inhibitory concentration

dw = dry weight

bw = body weight

cc = closed cup

oc = open cup

MUS = mouse

GPG = guinea pig

RBT = rabbit

HAM = hamster

HMN = human

MAM = mammal

[cont...]

SAFETY DATA SHEET

SPIRITS OF SALTS

Page: 8

PGN = pigeon

IVN = intravenous

SCU = subcutaneous

SKN = skin

DRM = dermal

OCC = ocular/corneal

PCP = physico-chemical properties

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.