

SAFETY DATA SHEET
(MARK VITOW) SPIRITS OF SALT

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Compilation date: 20/11/2018
Revision date: 02.11.22
Revision No: 3

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

1.1. Product identifier

Product name: (MARK VITOW) SPIRITS OF SALT

Product code: SPIR

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

Use of substance / mixture: Water based acid liquid descaler and cleaner.

1.3. Details of the supplier of the safety data sheet

Company name: MARK VITOW LTD

1 Silver Court

Watchmead

Welwyn Garden City

Hertfordshire

AL7 1LT

Tel: 0208 207 3784

Email: info@markvitow.com

1.4. Emergency telephone number

Emergency tel: 0208 207 3784

(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; Met. Corr. 1: H290

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

2.2. Label elements

Label elements:

Hazard statements: H290: May be corrosive to metals.

H314: Causes severe skin burns and eye damage.

H335: May cause respiratory irritation.

Hazard pictograms: GHS05: Corrosion

GHS07: Exclamation mark



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Signal words: Danger

Precautionary statements: P102: Keep out of reach of children.

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

P260: Do not breathe vapours.

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 .

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.

Haz. ingredients (label): Contains: HYDROCHLORIC ACID 28 - 32%

2.3. Other hazards

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

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: HYDROCHLORIC ACID (28/30%)

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin.

Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning.

Eye contact: Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

Ingestion: Wash out mouth with water. Do not induce vomiting. Give 1 cup of water to drink every 10 minutes. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious and breathing is OK, place in the recovery position. If conscious, ensure the casualty sits or lies down. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.

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

Skin contact: Blistering may occur. Progressive ulceration will occur if treatment is not immediate.

Eye contact: Corneal burns may occur. May cause permanent damage.

Ingestion: Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.

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Inhalation: There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

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

Immediate / special treatment: Show this safety data sheet to the doctor in attendance.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: Corrosive. In combustion emits toxic fumes. 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 protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Notify the police and fire brigade immediately. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Small spills may be neutralised with Sodium BiCarbonate (baking powder). Wash the spillage site with large amounts of water.

6.4. Reference to other sections

Section 7: Handling and storage

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7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area.
Do not handle in a confined space. Avoid the formation or spread of mists in the air.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed.
Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits:

State	8 hour TWA		15 min. STEL	
	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	2mg/m3	8mg/m3	-	-

Respirable dust:

Hazardous ingredients:

HYDROCHLORIC ACID (28/30%)

Workplace exposure limits:

State	8 hour TWA		15 min. STEL	
	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	2mg/m3	8mg/m3	-	-

Respirable dust:

DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.
Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.
Hand protection: Impermeable gloves.
Eye protection: Tightly fitting safety goggles. Ensure eye bath is to hand.
Skin protection: Impermeable protective clothing.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid
Colour: Colourless
Odour: Acrid
Evaporation rate: Moderate
Solubility in water: Highly soluble

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Viscosity: Non-viscous	Melting point/range°C: minus 33
Boiling point/range°C: 57-108	upper: Not applicable.
Flammability limits %: lower: Not applicable.	Part.coeff. n-octanol/water: No data available.
Flash point°C: Not applicable.	Vapour pressure: 1.27 (air=1)
Autoflammability°C: Not applicable.	pH: 0-1.0
Relative density: 1.150	
VOC g/l: 0	

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions. Stable at room temperature.

10.3. Possibility of hazardous reactions

Hazardous reactions: A wide range of organic materials and metals.

10.4. Conditions to avoid

Conditions to avoid: Heat.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong bases. Metals.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes of hydrogen chloride / phosgene. Contact with metals may produce highly flammable Hydrogen gas.

Section 11: Toxicological information

11.1. Information on toxicological effects

Toxicity values:

Route	Species	Test	Value	Units
DERMAL	RBT	LD50	>5000	mg/kg

Hazardous ingredients:

[cont...]

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HYDROCHLORIC ACID (28/30%)

DERMAL	RBT	LD50	>5000	mg/kg
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Relevant hazards for product:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated
STOT-single exposure	INH	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: Blistering may occur. Progressive ulceration will occur if treatment is not immediate.

Eye contact: Corneal burns may occur. May cause permanent damage.

Ingestion: Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.

Inhalation: There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values:

Species	Test	Value	Units
Daphnia magna	48H EC50	0.492	mg/l
RAINBOW TROUT (Oncorhynchus mykiss)	96H LC50	7.45	mg/l

Hazardous ingredients:

HYDROCHLORIC ACID (28/30%)

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: Not biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

12.4. Mobility in soil

Mobility: Readily absorbed into soil. Volatile. Soluble in water. Vapour is heavier than air.

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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. Toxic to flora. Toxic to fauna.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

Recovery operations: Not applicable.

Waste code number: 20 01 14

Disposal of packaging: Dispose of as normal industrial waste. Clean with water.

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: HYDROCHLORIC ACID 28 - 32%

14.3. Transport hazard class(es)

Transport class: 8

14.4. Packing group

Packing group: II

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: This product is subject to the Control of Poisons and Explosive Precursor Regulations 2015 (updated 2018). Offensive Weapons Act 2019: it is an offense to sell this material to a person under the age of 18 years.

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

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Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

All substances in this preparation are registered within UK/EU/EFTA countries under the REACH (UK/EC) (amended) regulations, EC 1907/2006

Product requires CRC (child resistant closure) and TDW (tactile danger warning) for retail sale to the general public.

Acquisition, possession or use by the general public is restricted.

Offensive Weapons Act 2019: It is an offense to sell this material to a person under the age of 18 years.

IMPORTANT NOTE:

Risk phrases in this section below relate to the INDIVIDUAL COMPONENTS in the formulation when used at their FULL CONCENTRATIONS, and not at the reduced levels in the mixed product.

See sections 2 and 3 for the calculated hazard and risk phrases for the blended product.

Phrases used in s.2 and s.3: H290: May be corrosive to metals.

H314: Causes severe skin burns and eye damage.

H335: May cause respiratory irritation.

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.