Bird Brand

MATERIAL SAFETY DATA SHEET

31st July 2017

SPIRITS OF SALT

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

1.1 Product identifier

Product name	Spirits of Salt
CAS number	7647-01-0
EINECS number	231-595-7
Index number	017-002-01-X
Product code	1085

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

Use of substance/mixture Water based acid liquid descaler

1.3 Details of the supplier of the safety data sheet

Supplier R.K.& J. Jones Ltd
Southery Road,
Feltwell,
Thetford, Norfolk, IP26 4EH.
(01842) 828101
Email admin@birdbrand.co.uk

1.4 Emergency telephone number

(01842) 828101 Monday-Friday 08.30 – 17.00 hrs, (01223) 968282 Out of office hours.

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification under CLP Skin Corr.1B: H314; STOT SE 3: H355

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

2.2 Label Elements

Label elements

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

Hazard pictograms GHS05: Corrosion
GHS07: Exclamation Mark

Signal Word Danger

Precautionary Statement P102 – Keep out of reach of children
P260 - Do not breathe vapours
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/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.

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%)
CAS number 7647-01-0
EINCECS number 231-595-7

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 unconscious, 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.

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

4.3 Indication of any immediate medical attention and special treatment needed

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 firefighters

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 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 Bi-Carbonate (baking powder) Wash the spillage site with large amounts of water.

6.4 Reference to other sections

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Handling requirements Avoid direct contact with the substance. Ensure adequate ventilation of the working 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: **Respirable dust**

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

Hazardous ingredients
HYDROCHLORIC ACID (28/30%)

Workplace exposure limits: **Respirable dust**

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

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
Melting point minus 33 Deg C.
Evaporation rate Moderate
Solubility in water Highly soluble
Viscosity Non-viscous
Boiling point 57-108
Relative density 1.150
Vapour pressure 1.27 (air=1)
pH 0-1.0
VOC g/l 0

9.2 Other information

Other information No data available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

10.2 Chemical stability

Chemical stability Stable under normal conditions

10.3 Possibility of hazardous reactions

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 product 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:
HYDROCHLORIC ACID (28/30%)

DERMAL	RBT	LD50	>5000	mg/kg

Relevant hazards for substance:

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 and nose.

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

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Ecotoxicity values:

Species	Test	Value	Units
RAINBOW TROUT (Oncorhynchus mykiss)	96H LC50	7.45	mg/l
Daphnia Magna	48H EC50	0.492	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 Bio-accumulative potential

Bio-accumulative potential No data available

12.4 Mobility in soil

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

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.
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 national regulations regarding disposal.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

UN number UN 1789

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

Environmental hazards 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 Not applicable

15.2 Chemical Safety Assessment

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

SECTION 16: OTHER HEALTH AND SAFETY INFORMATION

Other information IMPORTANT NOTE:
Risk phases 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 S2 & S3 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.

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This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own use.If this product is re-distributed and re-formulated for sale, details of its hazards and recommended methods for safe handling must be passed to customers. Customers are urged to ensure that the product is entirely suitable for their own purpose. It is the customer's responsibility to ensure that a suitable and sufficient assessment of the risks created by a work activity using this product is undertaken before this product is used.

Note: The information contained in this Safety Data Sheet does not constitute the users own assessment of workplace risk as required by other Health & Safety Legislation (e.g. the Health and Safety at Work Act,1974; the control of Substances Hazardous to Health Regulations,1988). The data given here is based on current knowledge and experience. The purpose of this data sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the product's properties.

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