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

- · Product identifier
- Trade name: 0.9% Saline Solution
- Article number: 20-9800-10
- · Registration number Sodium chloride: 01-2119494219-28
- · Relevant identified uses of the substance or mixture and uses advised against

As ingredient in construction chemicals; Road de-icing agent; Industrial use in the manufacture of computer, electronic and optical products, electrical equipment; Industrial manufacture and use of chemicals for textiles, leather, fur; Industrial manufacture of cosmetics; Industrial manufacture and use of water treatment chemicals; Industrial manufacture and use of pulp and paper products; Industrial use of chemicals; Industrial use as intermediate; Side product of silica compound manufacturing; Industrial use in the manufacture of electrodes; Professional use in agriculture; Adhesive agent; Filler of washing powder.

Uses advised against

- Uses by consumers advised against
- Consumer use of synthetic NaCl in food and feed Chemical product category PC 0: Other:
- Consumer use of synthetic NaCl in cosmetics
- Chemical product category PC 39: Cosmetics, personal care products

· Sector of Use

- SU0 Other
- SU1 Agriculture, forestry, fishery
- SU2a Mining, (without offshore industries)
- SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
- SU5 Manufacture of textiles, leather, fur
- SU6b Manufacture of pulp, paper and paper products
- SU8 Manufacture of bulk, large scale chemicals (including petroleum products)
- SU9 Manufacture of fine chemicals
- SU10 Formulation [mixing] of preparations and/or re-packaging (excluding alloys)
- SU13 Manufacture of other non-metallic mineral products, e.g. plasters, cement
- SU16 Manufacture of computer, electronic and optical products, electrical equipment
- SU19 Building and construction work
- SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- SU23 Electricity, steam, gas water supply and sewage treatment

· Product category

- PC0 Other
- PC1 Adhesives, sealants
- PC2 Adsorbents
- PC4 Anti-Freeze and de-icing products
- PC9a Coatings and paints, thinners, paint removers
- PC9b Fillers, putties, plasters, modelling clay
- PC12 Fertilizers
- PC14 Metal surface treatment products, including galvanic and electroplating products
- PC15 Non-metal-surface treatment products
- PC18 Ink and toners
- PC19 Intermediate
- PC20 Products such as ph-regulators, flocculants, precipitants, neutralization agents
- PC23 Leather tanning, dye, finishing, impregnation and care products

PC26 Paper and board dye, finishing and impregnation products: including bleaches and other processing aids

- PC28 Perfumes, fragrances
- PC34 Textile dyes, finishing and impregnating products; including bleaches and other processing aids
- PC37 Water treatment chemicals
- PC39 Cosmetics, personal care products

· Process category

- PROC2 Use in closed, continuous process with occasional controlled exposure
- PROC1 Use in closed process, no likelihood of exposure

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PROC3 Use in closed batch process (synthesis or formulation)
PROC4 Use in batch and other process (synthesis) where opportunity for exposure arises
PROC5 Mixing or blending in batch processes for formulation of preparations and articles (multistage
and/or significant contact)
PROC6 Calendering operations
PROC7 Industrial spraying
PROC8a Transfer of substance or preparation (charging/discharging) from/to vessels/large containers
at non-dedicated facilities
PROC8b Transfer of substance or preparation (charging/discharging) from/to vessels/large containers
at dedicated facilities
PROC9 Transfer of substance or preparation into small containers (dedicated filling line, including
weighing)
PROC10 Roller application or brushing
PROC11 Non industrial spraying
PROC13 Treatment of articles by dipping and pouring
PROC14 Production of preparations or articles by tabletting, compression, extrusion, pelletisation
PROC15 Use as laboratory reagent
PROC19 Hand-mixing with intimate contact and only PPE available
PROC26 Handling of solid inorganic substances at ambient temperature
· Environmental release category
ERC1 Manufacture of substances
ERC2 Formulation of preparations
ERC3 Formulation in materials
ERC4 Industrial use of processing aids in processes and products, not becoming part of articles
ERC5 Industrial use resulting in inclusion into or onto a matrix
ERC6a Industrial use resulting in manufacture of another substance (use of intermediates)
ERC7 Industrial use of substances in closed systems
ERC8a Wide dispersive indoor use of processing aids in open systems
ERC8b Wide dispersive indoor use of reactive substances in open systems
ERC8c Wide dispersive indoor use resulting in inclusion into or onto a matrix
ERC8d Wide dispersive outdoor use of processing aids in open systems
ERC8f Wide dispersive outdoor use resulting in inclusion into or onto a matrix
ERC9b Wide dispersive outdoor use of substances in closed systems
· Article category
AC0 Other
AC2 Machinery, mechanical appliances, electrical/electronic articles
AC4 Stone, plaster, cement, glass and ceramic articles
· Application of the substance / the preparation
The greatest single use for salt is as a feedstock for the production of chemicals. It has many other uses
such as in food processing and as a highway deicing agent.
· Details of the supplier of the safety data sheet
· Manufacturer/Supplier:
Severn Biotech Ltd.
Unit 2,
Park Lane,
Kidderminster,
Worcestershire.
DY11 6TJ
UK
Tel: 0044 1562 825286
Fax: 0044 1562 825284
email: info@severnbiotech.com
• Further information obtainable from: Product safety department. (Contd. on page 3)
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• Emergency telephone number: Tel: 0044 1562 825286 (not 24 hours)

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2 Hazards identification

- \cdot Classification of the substance or mixture
- **Classification according to Regulation (EC) No 1272/2008** The product is not classified according to the CLP regulation.
- · Classification according to Directive 67/548/EEC or Directive 1999/45/EC Not applicable.
- · Information concerning particular hazards for human and environment:
- The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version. • Classification system:
- The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

· Label elements

- · Labelling according to Regulation (EC) No 1272/2008 Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- \cdot Other hazards
- \cdot Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · **vPvB:** Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description
- 7647-14-5 Sodium chloride
- · Identification number(s)
- **EC number:** 231-598-3
- · Chemical characterization: Mixtures
- · Description: An aqueous solution of sodium chloride

· Dangerous components: Void

• Additional information: For the wording of the listed risk phrases refer to section 16.

4 First aid measures

- · Description of first aid measures
- · General information: No special measures required.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- · After eye contact:
- Check for and remove any contact lenses.
- Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing:
- Rinse out mouth and then drink plenty of water.
- Do not induce vomiting; call for medical help immediately.
- \cdot Information for doctor: Treat symptomatically and supportively.
- \cdot Most important symptoms and effects, both acute and delayed
- No further relevant information available.

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• **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

5 Firefighting measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device. Wear fully protective suit.

6 Accidental release measures

• Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation

- \cdot Environmental precautions: Dilute with plenty of water.
- \cdot Methods and material for containment and cleaning up: Dilute with plenty water.
- \cdot Reference to other sections

No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

· Handling:

 \cdot Precautions for safe handling

Prevent formation of aerosols.

Ensure good ventilation/exhaustion at the workplace.

- Information about fire and explosion protection: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Store away from metals.
- · Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles. Protect from frost.

• Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.

· Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- · DNELs
- WORKERS

Acute / short-term exposure - systemic effects

- Dermal DN(M)EL
- DNEL (Derived No Effect Level): 295.52 mg/kg bw/day

[·] Control parameters

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Inhalation DN(M)EL	
- DNEL (Derived No Effect Level): 2068.62 mg/m ³	
Long-term exposure - systemic effects	
Dermal DN(M)EL	
- DNEL (Derived No Effect Level): 295.52 mg/kg bw/day	
Inhalation DN(M)EL	
- DNEL (Derived No Effect Level): 2068.62 mg/m ³	
GENERAL POPULATION	
Acute / short-term exposure - systemic effects	
Dermal DN(M)EL - DNEL (Derived No Effect Level): 126.65 mg/kg bw/day	
- DIVEE (Derived ivo Enect Lever). 120.05 mg/kg 0w/day	
Inhalation DN(M)EL	
- DNEL (Derived No Effect Level): 443.28 mg/m ³	
Oral DN(M)EL	
- DNEL (Derived No Effect Level): 126.65 mg/kg bw/day	
Long-term exposure - systemic effects	
Dermal DN(M)EL	
- DNEL (Derived No Effect Level): 126.65 mg/kg bw/day	
Inhalation DN(M)EL	
- DNEL (Derived No Effect Level): 443.28 mg/m ³	
Oral DN(M)EL	
- DNEL (Derived No Effect Level): 126.65 mg/kg bw/day	
PNECs	
PNEC aqua (freshwater): 5 mg/L	
PNEC aqua (intermittent releases): 19 mg/L	
PNEC STP: 500 mg/L	
PNEC soil: 4.86 mg/kg soil dw	
Additional information: The lists valid during the making were used as basis.	
Exposure controls	
Personal protective equipment:	
Select PPE appropriate for the operations taking place taking into account the p	roduct properties.
General protective and hygienic measures:	
Avoid close or long term contact with the skin.	
Do not eat, drink, smoke or sniff while working.	
Avoid contact with the eyes.	
Do not inhale gases / fumes / aerosols. Respiratory protection: Not required.	
Protection of hands:	
The glove material has to be impermeable and resistant to the product/ the subst	tance/ the preparation.
Selection of the glove material on consideration of the penetration times, r	
degradation	
Material of gloves	
The selection of the suitable gloves does not only depend on the material, but	also on further marks o
quality and varies from manufacturer to manufacturer. As the product is	
substances, the resistance of the glove material can not be calculated in advance	ce and has therefore to be
checked prior to the application.	
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· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:

Safety glasses

Goggles recommended during refilling

• Body protection: Protective work clothing

9 Physical and chemical proper	rties
Information on basic physical and of General Information	chemical properties
· Appearance: Form:	Fluid
Colour:	Clear
· Odour:	Odourless
· Odour threshold:	Not determined.
· pH-value:	6.7-7.3
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	Undetermined. 100 °C
· Flash point:	Cannot support combustion
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	
Decomposition temperature:	Not determined.
· Self-igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits: Lower: Upper:	Not determined. Not determined.
· Vapour pressure at 20 °C:	23 hPa
 Density at 20 °C: Relative density Vapour density Evaporation rate 	1.05 g/cm ³ Not determined. Not determined. Not determined.
 Solubility in / Miscibility with water: 	Fully miscible.
· Partition coefficient (n-octanol/wat	er): Not determined.
 Viscosity: Dynamic: Kinematic: Other information 	Not determined. Not determined. No further relevant information available.

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10 Stability and reactivity

- · Reactivity
- · Chemical stability
- \cdot Thermal decomposition / conditions to be avoided:
- No decomposition if used and stored according to specifications.
- \cdot Possibility of hazardous reactions No dangerous reactions known.
- \cdot Conditions to avoid No further relevant information available.
- Incompatible materials: Finely powdered metals.
- · Hazardous decomposition products: Hydrogen chloride (HCl)

11 Toxicological information

- · Information on toxicological effects
- Acute toxicity:
- · Primary irritant effect:
- \cdot on the skin: No irritant effect.
- \cdot on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential Product is not expected to bioaccumulate.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:
- Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation
- Contact waste processors for recycling information.

Used, degraded or contaminated product may be classified as hazardous waste. Anyone classifying hazardous waste and determining its fate must be qualified in accordance with state and international legislation.

· European waste catalogue

Waste key numbers in accordance with the European Waste catalogue (EWC) are origin-referred defined. Since this product is used in several industries, no waste key can be provided by the supplier.

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The waste key number should be determined in arrangement with your waste disposal partner or the responsible authority.

· Uncleaned packaging:

- **Recommendation:** Disposal must be made according to official regulations.
- Recommended cleansing agents: Water, if necessary together with cleansing agents.

UN-Number	
ADR, ADN, IMDG, IATA	Void
UN proper shipping name ADR, ADN, IMDG, IATA	Void
Transport hazard class(es)	
ADR, ADN, IMDG, IATA	
Class	Void
Packing group	
ADR, IMDG, IATA	Void
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Not applicable.
Transport in bulk according to Anne	x II of
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	Not dangerous according to the above specifications.

15 Regulatory information

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing MSDS: Product safety department.