

BIACHEM LIMITED

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Certificate No. 10328



30-32 LUDGATE HILL
LONDON
EC4M 7DR
ENGLAND

Safety Data Sheet

Revision BIACHEM 1 - Revision date: 11/11/2024 - Print Date: 11/11/2024

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878

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

1.1 Product identifier

Product name	Salt
Substance name	Sodium chloride
Alternative names	Vacuum salt, Compacted salt, Halite
Chemical Formula	NaCl
CAS No.	7647-14-5
EINECS No.	231-598-3
REACH Registration No.	Not applicable

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

Identified Use(s)	Chemical manufacture, food industry, animal feed industry, water treatment
Uses advised against	None

1.3 Details of the supplier of the safety data sheet

Supplier:	Biachem Limited
Address:	30 -32 Ludgate Hill, London, EC4M 7DR
Telephone:	+44 (0) 207 250 1905

1.4 Emergency telephone Number:

+44 (0) 7785 904 875

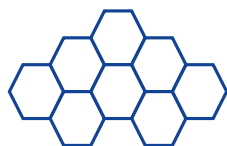
SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

2.1.1 Regulation (EC) No. 1272/2008 (CLP) Not classified as hazardous for supply/use.

2.2 Label elements

	According to Regulation (EC) No. 1272/2008 (CLP)
Product Name	Salt
Substance name	Sodium chloride
CAS No.	7647-14-5



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EINECS No.	231-598-3
Hazard Pictogram(s)	None assigned.
Signal Word(s)	None assigned.
Hazard Statement(s)	None assigned.
Precautionary Statement(s)	None assigned.
Supplemental information	None assigned.

- 2.3 Other hazards** High concentrations of dust may be irritant to the respiratory tract.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

SUBSTANCE	CAS No.	EC No.	REACH Registration No.	%W/W
Sodium chloride	7647-14-5	231-598-3	Not yet assigned in the supply chain	> 99.9

Hazardous impurities

No other components or impurities which will influence the classification of the product

Contains:

Part per million (ppm) levels of a non-toxic anti-caking additive, Sodium hexacyanoferrate (II) – E535

Part per million (ppm) levels of iodine as a nutritional supplement, potassium iodate - supplied according to customer specification

3.2 Mixtures

Not applicable

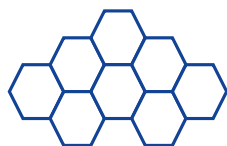
SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Self-protection of the first aider

No action should be taken involving personal risk. Use personal protective equipment as required. Ensure adequate ventilation. Avoid inhalation of dusts. Avoid contact with skin and eyes.



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Inhalation

IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

Skin contact

IF ON SKIN: Gently wash with plenty of soap and water. If irritation develops and persists, get medical attention.

Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

Ingestion

IF SWALLOWED: Rinse mouth. Wash out mouth with water and give 200-300 ml (half a pint) of water to drink. Do NOT induce vomiting. If you feel unwell, seek medical advice (show the label where possible).

4.2 Most important symptoms and effects, both acute and delayed

None anticipated.

4.3 Indication of any immediate medical attention and special treatment needed

Unlikely to be required but if necessary treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Unsuitable extinguishing media

As appropriate for surrounding fire.
Do not use water jet. Direct water jet may spread the fire.

5.2 Special hazards arising from the substance or mixture

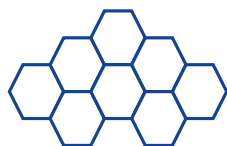
Not flammable. Combustion products:
Sodium/Sodium Oxide, Hydrogen chloride gas.

5.3 Advice for firefighters

Fight fire with normal precautions from a reasonable distance. Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Keep containers cool by spraying with water if exposed to fire. Avoid run off to waterways and sewers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective



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equipment and emergency procedures

No action should be taken involving personal risk. Wear appropriate personal protective equipment, avoid direct contact. Ensure adequate ventilation. Avoid breathing dust. Remove contaminated clothing and wash all affected areas with plenty of water. Avoid dust generation.

Avoid release to the environment.

6.2 Environmental precautions

6.3 Methods and material for containment and cleaning up

Damp down to avoid dust generation. Use vacuum cleaner to collect spilt material. Recover the product where possible. Ventilate the area and wash spill site after material pick-up is complete. Transfer to a container for disposal or recovery.

See Section: 8,13

6.4 Reference to other sections

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Ensure adequate ventilation. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Remove contaminated clothing and wash clothing before reuse. Avoid dust generation.

7.2 Conditions for safe storage, including any incompatibilities

Storage temperature
Incompatible materials

Keep container tightly closed. Store in a cool/low-temperature, well-ventilated (dry) place away from heat and ignition sources. Control dust formation.
Keep in a cool, well ventilated place.
Keep away from: Strong oxidising agents.

7.3 Specific end use(s)

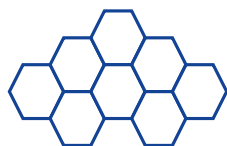
See Section: 1.2

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational exposure limits

The UK HSE (EH40) recommends the following



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limits for dusts: 10 mg/m³ (8hr TWA) total
inhalable dust; 4 mg/m³ (8hr TWA) total
respirable dust.

Ireland HSA (Code of Practice) recommends the
following limits for dusts: 10 mg/m³ (8hr TWA)
total inhalable dust; 4 mg/m³ (8hr TWA) total
respirable dust

Not established

Not applicable

8.1.2 Biological limit value

8.1.3 PNECs and DNELs

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensure adequate ventilation. Store in a
cool/low-temperature, well-ventilated (dry)
place away from heat and ignition sources.
Atmospheric levels should be controlled in
compliance with the occupational exposure
limit. Ground and bond container and receiving
equipment.

8.2.2 Individual protection measures, such as personal protective equipment

Keep good industrial hygiene. Wear appropriate
personal protective equipment, avoid direct
contact. Avoid contact with skin, eyes or
clothing. Do not eat, drink or smoke at the work
place. Avoid breathing dust.

Protective clothing should be selected specifically for the working place, depending
on concentration and quantity of the substances handled. The resistance of the
protective clothing to chemicals should be ascertained with the respective supplier.

Eye/ face protection

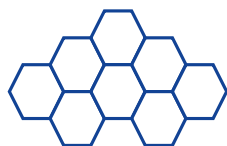


Wear eye protection with side protection
(EN166). Eyewash bottles should be availabl

Skin protection



Hand protection: Wear impervious gloves
(EN374). Gloves should be changed regularly to
avoid permeation problems. Breakthrough time



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of the glove material refer to the information provided by the gloves' producer. Protective index 6, corresponding > 480 minutes of permeation time according to EN 374.

Body protection: Wear dust-resistant protective clothing.

Respiratory protection



Not normally required. Wear suitable respiratory protective equipment if processing involves working in areas where dusts or vapours are likely to be evolved. In case of inadequate ventilation wear respiratory protection. Recommended: EN143 Type A-P2.

Thermal hazards

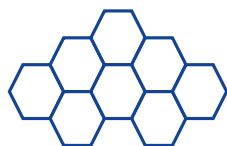
Not applicable.

8.2.3 Environmental exposure controls Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Solid
Colour	White / colourless
Odour	Odourless
Melting point/freezing point	802°C
Boiling point or initial boiling point and boiling range	1413°C
Flammability	Not flammable
Lower and upper explosion limit	Not established
Flash point	Not applicable
Auto-ignition temperature	Not applicable
Decomposition temperature	Not established
pH	10.0 approx. (10% solution)
Kinematic viscosity	Not established
Solubility	In water 35.9 g/100g at 0°C ; 39.2 g/100g at 100°C
Partition coefficient: n-octanol/water (log value)	Not applicable
Vapour pressure	2.4mm Hg at 747°C



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Density and/or relative density	Up to 2.165 g cm ⁻³ at 20°C
Relative vapour density	Not applicable
Particle characteristics	Not established

9.2 Other information None known

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity Stable under normal conditions. Reacts with – Strong sulphuric acid or Nitric acid.

10.2 Chemical stability Stable under normal conditions.

10.3 Possibility of hazardous reactions None anticipated. Reacts with – Strong sulphuric acid or Nitric acid.

10.4 Conditions to avoid Avoid contact with heat and ignition sources. Keep away from moisture. Avoid contact with: Strong sulphuric acid or Nitric acid (Formation of: Hydrogen chloride gas)

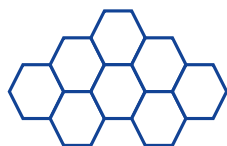
10.5 Incompatible materials Keep away from: Strong oxidising agents. (Wet conditions) Corrosive to: Common metals, Iron, Aluminium and zinc

10.6 Hazardous decomposition products Sodium/Sodium Oxide. Possible trace amounts of: Hydrogen chloride gas at temperatures in excess of 800°C.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity - Ingestion	Based upon the available data, the classification criteria are not met. Oral LD50, rat 3000 mg/kg
Acute Toxicity - Inhalation	Based upon the available data, the classification criteria are not met.
Acute Toxicity - Skin contact	Based upon the available data, the classification criteria are not met.
Skin corrosion/irritation	Based upon the available data, the classification criteria are not met.
Serious eye damage/irritation	Based upon the available data, the classification criteria are not met.
Respiratory or skin sensitisation	Based upon the available data, the classification criteria are not met.



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Germ cell mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

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

STOT - single exposure

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

STOT - repeated exposure

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

Aspiration hazard

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

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

11.2.2 Other information

None known

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Based upon the available data, the classification criteria are not met.
Estimated LC50 (Substance): >100 mg/l.

12.2 Persistence and degradability

Not applicable for inorganic substances.

12.3 Bioaccumulative potential

Not applicable for inorganic substances.

12.4 Mobility in soil

Not applicable for inorganic substances.

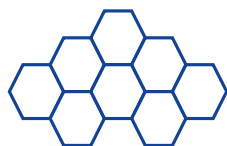
12.5 Results of PBT and vPvB assessment According to Annex XIII of the REACH Regulation 1907/2006/EC inorganic substances do not need to be subjected to a PBT assessment.

12.6 Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7 Other adverse effects

None known



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SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of contents in accordance with local, state or national legislation. Do not allow to enter drains, sewers or watercourses. Recycle packaging.

13.2 Additional information

Avoid release to the environment. Dispose of empty containers and wastes safely.

SECTION 14: TRANSPORT INFORMATION

Not classified according to the United Nations 'Recommendations on the Transport of Dangerous Goods'.

	ADR/RID	IMDG	IATA/ICAO
14.1 UN number	None assigned.	None assigned.	None assigned.
14.2 UN proper shipping name	None assigned.	None assigned.	None assigned.
14.3 Transport hazard class(es)	None assigned.	None assigned.	None assigned.
14.4 Packing group	None assigned.	None assigned.	None assigned.
14.5 Environmental hazards	Not classified	Not classified as a Marine Pollutant.	Not classified
14.6 Special precautions for user	See Section: 2		
14.7 Maritime transport in bulk according to IMO instruments	No information available.	No information available.	No information available.
14.8 Additional information	None known		

SECTION 15: REGULATORY INFORMATION

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

15.1.1 EU regulations

Authorisations and/or restrictions on use

Not restricted

15.1.2 National regulations

Germany

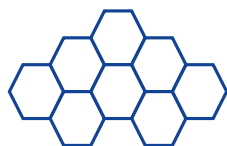
Water hazard class (WGK): 1

TSCA Inventory

Listed

15.2 Chemical Safety Assessment

A REACH chemical safety assessment has not been carried out.



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SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: New SDS Regulation 2020/878 format, all sections have been updated to include new information. Please review SDS with care.

References:

Existing Safety Data Sheet (SDS),
Existing ECHA registration for Sodium chloride (CAS No. 7647-14-5).

EU Classification: This Safety Data Sheet was prepared in accordance with EC Regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878.

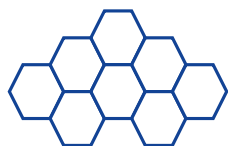
Legend

ADR ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DNEL Derived no effect level
EU European Union
IATA IATA: International Air Transport Association
ICAO ICAO: International Civil Aviation Organization
IMDG IMDG: International Maritime Dangerous Goods
LC50 Lethal concentration at which 50% of the population is killed
LD50 Lethal dose at which 50% of the population is killed
LTEL Long term exposure limit
PBT PBT: Persistent, Bioaccumulative and Toxic
PNEC Predicted No Effect Concentration
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals
RID RID: Regulations concerning the international railway transport of dangerous goods
STEL Short term exposure limit
vPvB vPvB: very Persistent and very Bioaccumulative
WGK Wassergefährdungsklasse (Germany) / Water hazard class

Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

Disclaimers

This SDS is only intended for the indicated country to which it is applicable. The European SDS format compliant with the applicable European legislation is not intended for use nor distribution in countries outside the European Union with the exception of Norway,



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Switzerland and UK. Safety datasheets applicable in other countries/regions are available upon request.

- The information given corresponds to the current state of our knowledge and experience of the product and is not exhaustive. This applies to product which conforms to the specification, unless otherwise stated. In this case of combinations and mixtures one must make sure that no new dangers can arise. In any case, the user is not exempt from observing all legal, administrative and regulatory procedures relating to the product, personal hygiene, and protection of human welfare and the environment.

Annex to the extended Safety Data Sheet (eSDS)

Exposure Scenarios are not applicable

