

HARRIS FILTERS SODIUM CHLORIDE

MATERIAL SAFETY DATA SHEET

1. Identification of the substance/preparation and of the company

Product Name: Sodium Chloride

Company Identification: Harris Filters

42 & 43 Zoar Street

Lower Gornal

Dudley

West Midlands DY3 2PA, UK

Tel: 01384 253073

2. Composition/Information on ingredients

Alternative Name: Salt Chemical formulae: NaCl

Name CAS No. EINECS No. Sodium Chloride 7647-14-5 231-598-3

3. Hazard Identification

Inhalation Very high concentrations of salt dust may result in

inflammation of the mucus membranes of the respiratory

tract.

Skin contact: Dry salt and concentrated solutions can cause of withdrawal

of fluid from skin and may, on prolonged contact, produce

irritation.

Eye contact: Salt and salt solutions are not toxic to the eye, but

concentrations much above that of tears cause a stinging

sensation.

Ingestion: Acute and chronic toxic effects can result from the ingestion

of excessive amounts of either salt or brine. Salt should not be used as an emetic to induce vomiting. High concentration produce inflammatory reactions in the gastrointestinal tract and can cause vomiting, diarrhoea, convulsions and collapse.

The ingestion of hypertonic solutions and cause fatal

disturbances of body electrolyte and fluid balance, particularly in the young and elderly. Less than tablespoon of salt may severely poison an infant and sometimes prove fatal.

4. First Aid Measures

Inhalation Move to fresh air. Keep warm and rest. Give drinks if desired.

Ingestion: Vomiting will probably occur. Provided the patient is

conscious give plenty of liquid to drink. Obtain immediate medical attention especially if vomiting has not occurred.

Eye Contact: Irrigate with eye wash solution or clean water. If symptoms

develop obtain medical attention.

Skin Contact: Wash with plenty of water.

Most important symptoms and effects, both acute and delayed:

No further relevant information

Indication of any immediate medical attention and special treatment needed:

No further relevant information

5. Fire Fighting Measures

Fire extinguishing media: Use agents suitable for type of surrounding: water spray,

CO2, dry chemical or foam.

Special hazards from the

mixture

Salt withstands temperatures up to its melting point and beyond without decomposing, but at very high temperatures (greater than approx. 800C) a vapour may be emitted which

is particularly irritating to the eyes.

Advice for firefighters: As applicable to the combustion products associated with the

fire.

6. Accidental Release Measures

Spillage: Spillage should be swept up or may be safely water hosed to

drain under normal circumstances.

Personal Protection: Avoid prolonged contact with the skin and inhalation of dust

concentrations, otherwise normal good handling and housekeeping practice is adequate. No special protective clothing is required. An eyewash bottle with clean water

should be available.

7. Handling & Storage

Handling: Salt dust is non-flammable, but static electricity can be

generated by pneumatic conveying, therefore pipes should be bonded and earthed, especially in environments where a

spark could prove hazardous.

Storage: Due to its hygroscopic nature, dried vacuum salt should be

stored in a dry atmosphere and away from concentrated acids. Absorbs moisture if the relative humidity is above 75%.

8. Exposure Controls/Personal Protection

Occupational exposure As total dust 10 mg/m3 (8 hr TWA)

limits: As respirable dust 5mg/m3 (8 hr TWA)

None specified

Dangerous exposure: Static electricity can be generated by pneumatic conveying,

therefore pipes should be bonded and earthed, especially in

environments where a spark could prove hazardous.

face mask should be worn

Hand protection: Gloves to be worn if prolonged contact is anticipated. Dry salt

and concentrated solutions can cause withdrawal of fluid from

the skin.

Eye protection Wear chemical safety goggles in situations where contact

with the eyes may occur.

Skin and body protection Skin should be washed to remove salt. Dry salt and

concentrated solutions can cause withdrawal of fluid from

skin.

available.

9. Physical & Chemical Properties

Physical and chemical

properties

Value

Appearance

Granular crystals

Colour White
Boiling point 1413C
Melting point/range 801C
Density 1.1 gm/ml

360g/l @ 200C

10. Stability & Reactivity

Solubility in water

Stability Stable

Hazardous decomposition

products

Trace amounts of hydrogen chloride gas may be evolved at temperatures in excess of 800C. Contains no water on

crystallisation. Does not react with alkalis at ordinary

temperatures.

Conditions to avoid Reacts with strong sulphuric acid or nitric acid to give

hydrogen chloride gas.

particularly iron, aluminium and zinc. Stainless steel resists

attack.

11. Toxicological Information

Eyes Dust may be irritating

Skin Irritation after prolonged contact

Ingestion Salt is an essential constitute of the diet. It provides important

body electrolytes and is the source of hydrochloric acid present in the gastric juices. The blood stream contains nearly 1% sodium chloride. In normal industrial use salt is not

hazardous.

Inhalation Dusts may be irritating

Carcinogenicity Not considered to be carcinogen Mutagenicity Not considered to be a mutagen

Reproductive effects None identified

12. Ecological Information

A maximum value of 412 mg/l ensures the protection of all aquatic life. Source: Water

research Centre - September 1990.

Toxicity to fish	LC50	96 hrs	6750	Mg/l	
Toxicity to	EC50	48 hrs	2024	Mg/l	Daphnia magna
daphnia					
Toxicity to	IC	72 hrs	3014	Mg/l	
algae					
Daphnia Sub Acute			1062	Mg/l	
Fish Sub acute			433	Mg/l	
BOD 5 day			0	Mg/e	
COD			0	Mg/e	
Earthworm toxicity			1000	Hg/cm2	

13. Disposal Consideration

Disposal should be in accordance with local regulations.

14. Transport Information

The product is not classified as dangerous (nor regulated) for transport.

15. Regulatory Information

The product is not classified as dangerous for supply or conveyance.

Harris Filters has compiled the information contained in this data sheet to the best of its own knowledge and of available reliable data.

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