

TENNANTS DISTRIBUTION LIMITED

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PRODUCT DATA SHEET

(This booklet incorporates the Specification and M.S.D.S.)

PRODUCT		GRANULAR SALT A	
CAS NO.	7647-14-5		
TARIFF NO.	250100990		
U.N NO.	N/R		
EINECS NO.			
IMCO CLASS	N/R		
HAZARDS			
SPECIFICATION REFERENCE	SAGRA/1	DATE	APR 01
REFERENCE NO.	SAGRA/2	DATE	MAR 05
PREVIOUS EDITION.	SAGRA/1	DATE	APR 01

PRODUCT SPECIFICATION	
Product Name	Salt (Granular, Type A)
Alternative Name	Sodium Chloride
Product Grade	
SALES SPECIFICATION	
Sodium Chloride (NaCl)	99.80% ds
Humidity (H2O)	0.09%
Sulphate (SO ₄)	1200 mg/kg
Phosphate (PO ₄)	<10 mg/kg
Calcium (Ca)	400 mg/kg
Magnesium (Mg)	300 mg/kg
Potassium (K)	505 mg/kg
Strontium (Sr)	26 mg/kg
Boron (B)	15 mg/kg
Aluminium (Al)	2 mg/kg
Silicon (Si)	53 mg/kg
Iron (Fe)	<1 mg/kg
Chromium (Cr)	<0.2 mg/kg
Copper (Cu)	0.3 mg/kg
Mercury (Hg)	<1 mg/kg
Iodine (I)	<2 mg/kg
Insoluble Matter	0.01%
NOTES	
Exclusion of Liability	
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Health and Safety	
A Material Safety Data Sheet has been issued describing the health, safety and environmental properties of this product, identifying the potential hazards and giving advice on the handling precautions and emergency procedures. This must be consulted fully before handling, storage and use.	

SAFETY DATA SHEET	
1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY	
Product:	Salt, Sodium Chloride (Granular, Type A)
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2. COMPOSITION/INFORMATION ON INGREDIENTS	
Chemical Formulae:	NaCl
Chemical Family Name:	Sodium Chloride
CAS No.:	7647-14-5
EINECS No.:	231-598-3
3. HAZARDS IDENTIFICATION	
Inhalation	Very high concentrations of salt dust may result in inflammation of the mucous membranes of the respiratory tract.
Skin Contact	Dry salt and concentrated solutions can cause 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 concentrations 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	
First Aid - Eyes	Irrigate with eye wash solution or clean water. If symptoms develop obtain medical attention.
First Aid - Skin	Wash with plenty of water.
First Aid - Inhalation	Remove patient to fresh air. Keep warm and at rest. Give drinks if desired
First Aid - 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.
5. FIRE FIGHTING MEASURES	
Flammability	Non flammable
Extinguishing Media	Use agents suitable for type of surrounding fire, dry chemical, CO ₂ , water spray or foam
Special Hazards	Salt withstands temperatures up to its melting point and beyond without decomposing, but at very high temperatures (greater than approx. 800°C) a vapour may be emitted which is particularly irritation to the eyes
Protective Equipment	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 AND 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 Limits	As total dust 10mg/m ³ (8hr TWA) As respirable dust 5mg/m ³ (8hr TWA) None specified
Dangerous Exposure Engineering Controls	Static electricity can be generated by pneumatic conveying, therefore pipes should be bonded and earthed, especially in environments where a spark could prove hazardous
Personal Protection Respiratory Protection	If the process is such that salt dust is generated, a disposable 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 Protection	Skin should be washed to remove salt. Dry salt and concentrated solutions can cause withdrawal of fluid from the skin
Other Protective Measures	An eyewash and hand washing facilities should be readily available
9. PHYSICAL AND CHEMICAL PROPERTIES	
Physical State	White granular crystals
Boiling Point	1413°C
Melting Point	801°C
Density	1.1gm/ml
Water Solubility	at 200°C 360 g/l
10. STABILITY AND REACTIVITY	
Stability	Stable
Hazardous Decomposition Products	Trace amount of hydrogen chloride gas may be evolved at temperatures in excess of 800°C. 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
Materials to Avoid	Under wet conditions can corrode many common metals, particularly iron, aluminium and zinc. Stainless steel and model resist attack.
11. TOXICOLOGICAL INFORMATION	
Eyes	Dusts may be irritating
Skin	Irritation after prolonged contact
Ingestion	Salt is an essential constituent 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. LD50 3000 mg/kg oral, rat
Inhalation	Dusts may be irritating
Carcinogenicity	Not considered to be a carcinogen
Mutagenicity	Not considered to be a mutagen
Reproductive Effects	None identified
12. ECOLOGICAL INFORMATION	
Environmental Effect	A maximum value of 412 mg/l ensures the protection of all aquatic life. Source: Water Research Centre - September 1990 96 hour LC (Fish) 6750 mg/l 48 hour EC (Daphnia) 2024 mg/l 72 hour IC (Algae) 3014 mg/l 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/cm ²
13. DISPOSAL CONSIDERATIONS	
Disposal should be in accordance with local regulations. .	
14. TRANSPORT INFORMATION	
Not classified as Hazardous for Transport	

15. REGULATORY INFORMATION

This product not classified as dangerous for supply or conveyance

16. OTHER INFORMATION

The Specification has been amended. The Safety Data Sheets remain the same
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Revision Date: 30/03/05
