

JOHN ASTLEY & SONS LTD

MATERIAL SAFETY DATA SHEET

54054

18/01/07

PURE DRIED VACUUM SALT

1. IDENTIFICATION OF THE PREPARATION AND COMPANY

Product stock code: 54054

Product Name: Sodium Chloride. Pure dried vacuum salt.

Uses: Chemical manufacture. Food. Water treatment, Etc.

Synonym(s): Evaporated Salt. Common salt.

Manufacturer: Ineos Enterprises
Mersey View Road
Weston Point, Runcorn,
Cheshire WA7 4HB
Tel: 01928 581800

Emergency Phone Number: For specialist advice in an emergency telephone Runcorn (01928) 581,800

Distributor: John Astley & Sons Ltd,
Renown Avenue,
Coventry Business Park,
Coventry, CV5 6UF
Tel: (024) 7685 4545. Fax: (024) 7685 4515. E-mail: sales@astleys.co.uk

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name: Sodium Chloride.
CAS No: 007647-14-5
EINECS No: 231-598-3

Hazardous Ingredients: Contains no hazardous Ingredients in accordance with EC Directive 93/112/EEC

3. HAZARDS IDENTIFICATION

Unlikely to cause harmful effects under normal conditions of handling and use

4. FIRST AID MEASURES

General effects: Irritating to mucous membrane and eyes.

Inhalation: Remove patient from exposure.

Eye contact: Irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 10 minutes. If symptoms develop, obtain medical attention.

Skin contact: Wash skin with water.

Ingestion: Vomiting is likely.
Wash out mouth with water and give 200-300 ml (half a pint) of water to drink.
Obtain medical attention if ill effects occur.

Further Medical Treatment: Symptomatic treatment and supportive therapy as indicated.

5. FIRE FIGHTING MEASURES

Non-flammable: Will withstand temperatures up to its melting point and beyond without decomposing

Extinguishing media: As appropriate for surrounding fire.

Protective Equipment: No special requirements.

6. ACCIDENTAL RELEASE MEASURES

Clean up method: Clear up spillages. Transfer to a container for disposal. Wash the spillage area with water.

Environmental controls: Spillages or uncontrolled discharges into watercourses, drains or sewers must be IMMEDIATELY alerted to the Environment Agency or other appropriate regulatory body.

JOHN ASTLEY & SONS LTD

MATERIAL SAFETY DATA SHEET

54054

18/01/07

PURE DRIED VACUUM SALT

7. HANDLING AND STORAGE

- Handling:** Avoid prolonged skin contact. Avoid inhalation of high concentrations of dusts. Atmospheric levels should be controlled in compliance with the occupational exposure limit. Keep away from concentrated acids and common metals. Static electricity can be generated by pneumatic conveying, therefore pipes should be bonded and earthed, especially where a spark could prove hazardous.
- Storage:** Keep container dry. Keep away from strong acids.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Precautions:** Wear suitable protective clothing, gloves and eye/face protection. An approved dust mask should be worn if exposure to high levels of dust is likely.
- Occupational Exposure Standard:** (UK HSE Guidance Note EH40)
Long Term Exposure Limit: (8hr time weighted average)
Total Inhalable Dust: 10 mg/ m³
Respirable Dust: 4 mg/ m³

9. PHYSICAL AND CHEMICAL PROPERTIES*

- Form:** Crystals.
Appearance: Free running crystals mostly 0.2 – 0.6mm in size.
Colour: Colourless.
Odour: Odourless.
Melting point: 802°C.
Boiling point: 1413°C
Density: Sodium Chloride (g/ml): up to 2.165 at 20°C.
Bulk density (g/ml): 1.2 to 1.5 approx.
Solubility: Freely soluble.

10. STABILITY AND REACTIVITY

- Stability:** Reaction with concentrated acid, will product hydrogen chloride. Under wet conditions, will corrode many common metals, particularly iron, aluminium and zinc

11. TOXICOLOGICAL INFORMATION

- Inhalation:** High concentrations of dust may be irritant to the respiratory tract.
- Skin Contact:** Dry salt and concentrated solutions will remove the natural greases from the skin resulting in dryness. Repeated and/or prolonged contact may cause irritation.
- Eye Contact:** High concentrations may cause irritation
- Ingestion:** The swallowing of small amounts is unlikely to cause any adverse effects. Excessive doses may result in irritation of the gastrointestinal tract leading to nausea vomiting and diarrhoea
- Long Term Exposure:** Chronic effects may result from the ingestion of excessive amounts of either salt or brine. Ingestion of Hypertonic solutions can cause disturbance of body electrolyte and fluid balance.

PURE DRIED VACUUM SALT

12. ECOLOGICAL INFORMATION

Environmental fate and distribution:

High tonnage material used in open systems.
Solid with low volatility.
The product is soluble in water.
The product has no potential for bioaccumulation.
The product is predicted to have high mobility in soil.

Toxicity:

Low toxicity to aquatic organisms.

Effect on

Effluent Treatment:

Adverse effects would not be expected.

13. DISPOSAL CONSIDERATIONS

Waste disposal:

Disposal should be in accordance with local, state or national legislation

14. TRANSPORT INFORMATION

Classification:

Not classified as Hazardous for transport.

15. REGULATORY INFORMATION

Classification:

Not Classified as Hazardous/Dangerous for Supply or Use.

EEC Classification:

Under the Classification, Packaging and Labelling of Dangerous Substances Regs, 1984, this material is not dangerous for supply or conveyance.

Transport:

Not Classified as Hazardous for Transport

16. OTHER INFORMATION

This data sheet was prepared in accordance with Directive 93/112/EC.

Information in this publication is believed to be accurate and is given in good faith but the Customer should ensure the suitability for any particular purpose. Accordingly, Ineos gives no warranty as to the fitness of the Product for any and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that, such exclusion is prevented by law.

Freedom under Patent, Copyright and Designs cannot be assumed.

Any Trade marks herein identified are the property of Ineos Limited

PLEASE ENSURE THIS SAFETY DATA SHEET IS PASSED TO THE APPROPRIATE PERSONS IN YOUR COMPANY, WHO ARE CAPABLE OF ACTING ON THE INFORMATION.

Issued: November 2005

JOHN ASTLEY & SONS LTD

MATERIAL SAFETY DATA SHEET

54054

18/01/07

PURE DRIED VACUUM SALT

SALT TECHNICAL DATA

SPECIFICATION

No: WPS/HG/001

ISSUE: 6

DATE: December 2005

PURE DRIED VACUUM SALT (PDV)

Pure Dried Vacuum Salt from Ineos Enterprises is ideal for a wide range of applications including food, water treatment and chemical manufacture. The manufacturing plant at Weston Point is registered for food production, and is accredited to the BRC Technical standard, whilst low sulphate, bromide and moisture levels contribute to the high chemical purity, which is required for most industrial applications. This purity is assured by a quality system registered to ISO 9001:2000, and a commitment to Total Quality Management.

CHEMICAL SPECIFICATION

All values except moisture are calculated on a dry basis. Test methods used are BS998:1990 or equivalent, except appearance which is a visual assessment.

| PROPERTY | UNIT | SPECIFICATION | TYPICAL ANALYSIS |
|--------------------------------|---|-------------------|------------------|
| Appearance | | White Crystalline | |
| Assay | %m/m NaCl | > 99.9 | > 99.9 |
| Surface Moisture | %m/m H ₂ O | < 0.05 | 0.01 |
| Insoluble matter | mg/kg | < 50 | < 10 |
| Alkalinity | mg/kg Na ₂ CO ₃ | < 150 | 88 |
| Sulphate | mg/kg Na ₂ SO ₄ | < 500 | 180 |
| E535 Sodium Hexacyanoferratell | mg/kg hla ₄ Fe (CN) ₆ | < 15 | 6.9 |
| Total Iron | mg/kg Fe | < 5 | 2.0 |
| Total Calcium | mg/kg Ca | < 20 | 3.0 |
| Total Magnesium | mg/kg Mg | < 5 | 0.06 |
| Total Copper | mg/kg Cu | < 0.2 | 0.02 |
| Total Arsenic | mg/kg As | < 0.2 | < 0.2 |
| Total Lead | mg/kg Pb | < 0.05 | 0.01 |
| Total Cadmium | mg/kg Cd | < 0.1 | < 0.001 |
| Total Mercury | mg/kg Hg | < 0.05 | < 0.03 |
| Total Bromide | mg/kg Br | < 120 | 105 |
| Oil* | mg/kg | < 4 | 1.6 |

* Castor oil is used as an anti-foam agent in evaporation

PHYSICAL CHARACTERISTICS

| | |
|--------------------------|-----------------|
| Typical Pouring Density: | 1.29 – 1.32g/ml |
| Typical Sieve Analysis: | %Through Sieve |
| 18 BS (850um) | 99.9 |
| 30 BS (500um) | 98 |
| 40 BS (355um) | 67.5 |
| 60 BS (250um) | 27.1 |
| 100 BS (150um) | 3.6 |

Important Note:

The information contained in this document is given in good faith and is to the best of Ineos' knowledge correct at the date of publication, but it is for the users to satisfy themselves of the suitability of the product for their purposes.

Ineos Enterprises

Mersey View Road, Weston Point, Runcorn, Cheshire, WA7 4HB

Tel +44 (0) 1928 581800 Fax +44 (0) 1928 572261