

Material Safety Data Sheet

Golden Coast



Legal Disclaimer

The information and recommendations in this publication are, to the best of our knowledge, information and belief, accurate at the date of publication.

Nothing herein is to be construed as a warranty, express or implied. In all cases it is the responsibility of the users to determine the applicability of such information or the suitability of any products for their own particular purpose.

Creation Date 07.01.00

Revision Date 07.01.00

Revision Number 1

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1 PRODUCT NAME: PDV SALT
PRODUCT CODE: 20 00 593 250

2 COMPOSITION

Formula:- NaCl

Contains 99.7% (min) w/w of sodium chloride (calculated on a dry basis) and 0.2%w/w (max) of water.

Pouring density: In the range 1.18 to 1.22g/cc

Sieve analysis:	Through 18 BS (850 micron)	Sieve 100%
	Through 30 BS (500 micron)	Sieve 93.7%
	Through 44 BS (350 micron)	Sieve 54%
	Through 60 BS (250 micron)	Sieve 17.5%
	Through 100 BS (150 micron)	Sieve 2.1%

3 HAZARD IDENTIFICATION

FIRE AND EXPLOSION HAZARD DATA

Flash Point: N/A

Auto-Ignite Temperature: N/A

Hazardous Combustion Products:

Risk Phrases	None	Secondary Risk	
Safety Phrases	None	Conveyance Class	Not allocated
Primary Risk	Non-hazardous	ADR HIN	Not allocated
S I Number	None	EINECS No	231-598-3
ADR Class	Not allocated	IMDG Code (Page)	N/A
Tremcard No	None	IMCO Class	Not allocated
IATA Special Provisions	N/A	Packing Group	Not allocated
UN Number	None	UK Customs Number	CUS 23148
CAS Number	7647-14-5		
Hazchem Code	Not allocated		

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As a quality assured company we reserve the right to alter and improve the specification of products as deemed necessary.
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CHIP RISK PHRASES

None recommended – see Regulatory Information.

CHIP SAFETY PHRASES

None recommended – see Regulatory Information.

PHYSICAL AND ENVIRONMENTAL

Non hazardous to living resources (4)

Spillage will affect vegetation.

See Ecological Information.

ADVERSE HUMAN HEALTH EFFECTS

Unlikely to present a health hazard in normal industrial use. See Toxicological Information.

4 FIRST AID MEASURES

INHALATION

Remove patient from exposure. Keep warm and at rest. Irrigate the upper respiratory tract for at least 20 minutes.

SKIN CONTACT

Brush off excess material and wash affected area with water.

EYE CONTACT

Irrigate eye thoroughly with water for at least 10 minutes, holding the eyelids apart if necessary. Obtain medical attention.

INGESTION

Vomiting with probably occur. Providing the patient is conscious, give plenty of liquid to drink. Obtain medical attention especially if vomiting has not occurred.

MEDICAL ASSISTANCE

Symptomatic treatment and supportive therapy as indicated.

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5 FIRE-FIGHTING MEASURES

SPECIAL PROTECTIVE EQUIPMENT

Non-combustible. May generate irritant fumes in a fire.

SUITABLE EXTINGUISHING MEDIA

Select extinguishing medium appropriate to other materials involved in and/or to the circumstances of the fire.

SPECIAL EXPOSURE HAZARDS

Non-combustible. Stable under normal conditions. Salt withstands temperatures up to its melting point and beyond without decomposing but may emit irritant vapour in a fire.

6 ACCIDENTAL RELEASE MEASURES

METHODS FOR CLEANING UP

Small and large spillages – sweep spilt product aside to a safe place and transfer to suitable container for subsequent disposal. If acceptable to public authorities, flush the product to drain with plenty of water. Dispose of hazardous waste in accordance with waste disposal and water authority regulations. See Disposal Considerations and Environmental Precautions.

PERSONAL PRECAUTIONS

No special requirements.

ENVIRONMENTAL PRECAUTIONS

If size of spillage warrants and has contaminated water courses, drains or vegetation – advise appropriate authorities.

7 HANDLING AND STORAGE

STORAGE

Store in a cool, dry, well ventilated area, away from incompatible chemicals or materials – see Stability and Reactivity. Prevent static electricity, generated during pneumatic conveying, ensure pipelines and metallic parts of tanks are earthed before and during unloading. The product may be stored in polythene or in stainless steel containers for bulk quantities. Do not store in other metallic containers.

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HANDLING

Exposure by inhalation or skin contact should be minimised by good industrial hygiene practice. Wear appropriate protective clothing – see Exposure Control. Safety showers and eyebaths should be available in areas where accidental exposure is possible. Ensure adequate ventilation to keep the airborne concentration as low as possible. Extinguish ignition sources – no smoking. The product should be kept in a closed system away from strong acids.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

HAND PROTECTION

Wear PVC or rubber gloves.

EYE PROTECTION

Wear chemical goggles. Eyebaths should be provided at places where accidental exposure may be possible.

SKIN PROTECTION

Wear cotton overalls, headgear and rubber boots. Showers should be provided at places where accidental exposure may occur.

RESPIRATORY PROTECTION

Occupational exposure limits assigned by HSE (1) and ACGIH (2):-

Recommended limit: OEL (8hr TWA) = 10mgm-3 (TOTAL DUST), OEL (8HR TWA) = 5MGM-3 (RESPIRABLE DUST).

A dust mask or respirator should be worn to prevent inhale of dust.

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9 PHYSICAL AND CHEMICAL PROPERTIES

Chemical Symonyms	SODIUM CHLORIDE	HALITE		
Molecular Mass	58.45		Lethal Dosage	3000 mg/Kg (rat)
Solubility in Water	35.6% 0°C		Specific Gravity @ 20°C	2.165 g/cc
Vapour Density	No data		Vapour Pressure	2.4 mmHg 747°C
Freezing Point °C	802°C mp		Boiling Point °C	1413°C
Viscosity	N/A		PH	7
Appearance	Fine white cubic crystalline solid			
Odour	Odourless.			

10 STABILITY AND REACTIVITY

Condition to avoid	Avoid exposure to moisture and humid atmospheres and draughts. The product is highly hygroscopic above 75% relative humidity. Avoid a build-up of static electricity and exposure to sparks – see Storage.
Materials to avoid	Reacts vigorously with sulphuric and nitric acids to liberate acid fumes. Aluminium, brass, tin and zinc are readily attacked if moisture present.
Hazardous decomposition products	Hydrogen chloride gas is evolved with sulphuric and nitric acids.

11 TOXICOLOGICAL INFORMATION

The product exhibits no acute toxicity by a single exposure. However, the product may be harmful if ingested in large quantities and show acute toxicity:- ingestion may cause nausea, vomiting and diarrhoea and can lead to drowsiness or unconsciousness. High dust concentrations may cause irritation to eyes, skin and the mucous membrane of the respiratory tract. May cause withdrawal of fluid from the skin. Prolonged contact may cause inflammation of the mucous membranes

CHRONIC EFFECTS

Ingestion of hypertonic solutions can imbalance fluid and electrolyte content of the body. Less than 1 tablespoon may severely poison an infant and may prove fatal.

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12 ECOLOGICAL INFORMATION

No evidence of bioaccumulation or tainting of seafood (4).
Non-hazardous to living resources 96 hr LC50 > 1000mg/l (4).

13 DISPOSAL CONSIDERATIONS

DISPOSAL DANGERS

Treat as for spillages. Wear appropriate protective clothing – see Accidental Release Measures. Care should be taken to ensure accidental mixing with acids, in drains, is avoided.

DISPOSAL METHODS

Treat as for spillages – see Accidental Release Measures. Dispose of any hazardous waste in accordance with waste disposal or water authority regulations.

14 TRANSPORT INFORMATION

SI 1992/743 The Road Traffic (Carriage of Dangerous Substances in Road Tankers and Tank Containers) Regulations
SI 1993/1746 The Chemicals (Hazard Information and Packaging) Regulations
SI 1992/742 Road Traffic (Carriage of Dangerous Substances in Packages, etc) Regulations

See Regulatory Information.

15 REGULATORY INFORMATION

Classification, the product is not a dangerous substance under the classification, packaging and labelling regulations (3).

Phrases – Under the CPL Regulations (3) risk and safety phrases are not assigned to the product – see Other Information.

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16 OTHER INFORMATION

TRAINING ADVICE

For all practical purposes the product is considered to be non-toxic. 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.

RECOMMENDED USES AND RESTRICTIONS

Used for flavouring and improving presentation of food – commonly used as table salt. Used in animal feeds. Used in large scale water treatment and purification processes, electrolytic production of sodium, precious metal extraction, case-hardening of steel and as a colour fixative in dyeing. Widely used in other industries ranging from soap to explosives.

DATA SOURCES

- HSE Guidance Note EH 40 Occupational Exposure Limits (Latest edition).
- ACGIH (Threshold Limit Values and Biological Exposure Indices) 1985-86.
- Chemicals (Hazard Information and Packaging for Supply) Regulations 1994 (SI No 3247) (CHIP2).
- IMO Reports and Studies No 35 (The Evaluation of Hazards of Harmful Substances Carried by Ships) 1989.
- IMDG Code (International Maritime Dangerous Goods Codes) 1990.
- Control of Substances Hazardous to Health Regulations. (SI 1988/1657).
- British (1980) and European (1976) Pharmacopoeia.
- Hazchem List No 6 (Emergency Action Codes and Supplementary Information) 1990.

THE MSDS COMPLIES WITH REGULATION 6 OF CHIP2 WHICH IMPLEMENTS ARTICLE 27 OF THE DANGEROUS SUBSTANCES DIRECTIVE (67/548/EEC) AS AMENDED BY THE SEVENTH AMENDMENT (92/32/EEC), ARTICLE 10 OF THE DANGEROUS PREPARATIONS DIRECTIVE (88/379/EEC) AND THE SAFETY DATA SHEETS DIRECTIVE (91/155/EEC AS AMENDED BY DIRECTIVE 93/112/EC).

THE INFORMATION IN THIS MATERIAL SAFETY DATA SHEET SHOULD BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE, TRANSPORT OR OTHERWISE BE EXPOSED TO THIS PRODUCT. THIS INFORMATION HAS BEEN PREPARED FOR THE GUIDANCE OF PLANT ENGINEERING, OPERATIONS AND MANAGEMENT AND FOR PERSONS WORKING WITH OR HANDLING THIS PRODUCT. THE MANUFACTURER BELIEVES THIS INFORMATION TO BE RELIABLE AND UP TO DATE AS OF THE DATE OF PUBLICATION, BUT MAKES NO WARRANTY THAT IT IS. ADDITIONALLY, IF THIS MATERIAL SAFETY DATA SHEET IS MORE THAN THREE YEARS OLD, YOU SHOULD CONTACT THE MANUFACTURER TO MAKE CERTAIN THAT THIS SHEET IS CURRENT.

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