



Product Data

US SALT LLC Watkins Glen, NY 14891

PD 4002
02/2005

Red•Out® Rust Remover Water Softener Salt Pellets

Watkins Glen, NY production

Description

Red•Out® Water Softener Salt Pellets, which contain a rust removal additive for resin bed water softeners, help provide rust-free softened water. Normal use of Red•Out® Water Softener Salt Pellets helps prevent rust discoloration on tubs, toilets, sinks, dishes, cookware, and laundry.

The use of Red•Out® Water Softener Salt Pellets results in cycled cleaning of iron-fouled resin beds. This increases resin efficiency and thereby can reduce the overall operating cost for clear, clean, softened water. Unlike other resin cleaning agents, which have to be added separately to the brine tank, the Red•Out® formula is distributed throughout the salt. This convenience continuously delivers its cleaning action cycle after cycle, to assure continuous and uniform operating efficiency.

Red•Out® Water Softener Salt Pellets are pillow-shaped pieces of compacted, high purity, evaporated sodium chloride designed for regeneration of home water softening units. Under normal use, the specific size, shape and density of this product eliminates mashing, bridging and channeling to provide excellent percolation. The high purity of Red•Out® Water Softener Salt Pellets produces a virtually 100% soluble product. This eliminates messy tank cleaning and provides for efficient operation of the unit.

Approved Use

Red•Out® Water Softener Salt Pellets can be used in most types of water softeners. This product is designed for use where iron fouling is a problem. Do not use with Chlorine-type cleansers. Always wash hands after contact with this product to avoid the possibility of mild skin irritation.

Availability

Red•Out® Water Softener Salt Pellets are available in 25 lb (11.3 kg), 40 lb (18.1 kg), and 80 lb (36.2 kg) net weight, poly bags.

Storage

To retard caking, Red•Out® Water Softener Salt Pellets should be stored in a dry, covered area at relative humidities below 75%. Cycling salt through the 75% relative humidity zone will rapidly increase the onset of caking.

Properties

Chemical (Salt)

Component ¹	Units	Typical / Range		
		Min ²	Typical	Max ²
Sodium Chloride ³	%	99.80	99.86	-
CaCl ₂ & MgCl ₂	%	-	0.01	0.02
CaSO ₄	%	-	0.12	0.16
Calcium ⁴	%	-	0.04	-
Sulfate ⁴	%	-	0.08	-
Magnesium ⁴	%	-	14	-
Water Insolubles	ppm	-	10	20
Copper	ppm	-	0.7	-
Iron	ppm	-	0.5	-

Physical

Sieve Analysis ¹		
USS Mesh	Opening Inches	Percent Retained (Typical)
¼ in	0.250	93

(1) Analytical methods available on request. (2)Based on +/- 2 standard deviations (3)By difference of impurities, moisture free basis, before additions. (4) Water Soluble

Technical Information

For further product information, contact Technical Manager, U S Salt LLC PO Box 110, Salt Point Road, Watkins Glen, NY 14891, by phone 607-535-2721 or FAX 607-535-2911.

Customer Service

For order, pricing, delivery or other service information, contact one of the following Customer Service Offices:

Toll Free 1+888-USA-SALT (872-7258)
Eastern Sales 814-861-4149

MATERIAL SAFETY DATA

SECTION 1

CHEMICAL NAME: Sodium Chloride (salt)
TRADE NAME: RedOut® Rust Remover Water Softener Salt Pellets
CHEMICAL FAMILY: Inorganic Salt (alkali metal – halogen)

FORMULA: NaCl

MANUFACTURER NAME: US Salt LLC
ADDRESS: Salt Point Road, Watkins Glen, NY 14891

EMERGENCY PHONE: 607-535-2067 ext 220

SECTION II – HAZARDOUS INGREDIENTS = NONE

CAS REGISTRATION NUMBERS = Sodium Chloride (>99%) (7647-14-5), phosphoric acid (<1%)(7664-38-2), benzene,1,1'-oxybis-,sec-hexyl derivatives, sulfonated sodium salts (147732-60-3), sodium sulfate (7757-82-6), sodium salt condensed naphthalenesulfonic acid (9084-06-4) and water (7732-18-5)
THRESHOLD LIMIT VALUES = Rats: Oral LD₅₀ = 3.75 g/kg; MLD I.V. = 2.5 g/kg

SECTION III – PHYSICAL DATA (SALT)

BOILING POINT (°C) @ 760 mm = 1465
VAPOR PRESSURE (mm Hg) @ 746.9°C = 2.4
VAPOR DENSITY = NA
SOLUBILITY IN WATER (g/100cc) = 35.7 @ 0°C, 36.0 @20°C
APPEARANCE & ODOR = Solid white or off-white crystalline material is odorless

SPECIFIC GRAVITY (H₂O = 1) = 2.165
% VOLATILE (by volume) = NA
EVAPORATION RATE = NA

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

FLASH POINT = NONE
FLAMMABLE LIMITS = Not Flammable
SPECIAL/UNUSUAL FIRE FIGHTING PROCEDURES/HAZARDS = NONE/Not Combustible
NATIONAL FIRE PROTECTION ASSOCIATION CODE = 000

EXTINGUISHING MEDIA = NA
EXPLOSIVE LIMITS = Not Explosive

SECTION V – REACTIVITY DATA

STABILITY = Stable
CONDITIONS TO AVOID = Concentrated acids such as sulfuric or nitric
HAZARDOUS DECOMPOSITION PRODUCTS = Hydrochloric acid from above acid mixtures with salt.
HAZARDOUS POLYMERIZATION = NONE. Will not occur.

SECTION VI -- TOXICOLOGICAL PROPERTIES

ROUTE(S) OF ENTRY = Ingestion, skin/eye contact, inhalation.
EFFECTS OF OVERDOSE OR OVEREXPOSURE = No acute systemic, chronic systemic or chronic local toxicity.
In sensitive persons some dermal or eye irritation effects, or after excessive ingestion, edema and/or temporary elevated blood pressure effects. Gavage ingestion of 15-50 g may induce vomiting resulting in partial vacating of stomach contents.

SECTION VII – PREVENTIVE MEASURES

VENTILATION = Local exhaust not necessary. Mechanical control dust collection may be used.
PERSONAL PROTECTIVE EQUIPMENT = Eye goggles and gloves optional and respirator unnecessary, but all may be used for comfort.
PRECAUTIONS (HANDLING/STORAGE) = Store under DRY (less than 75% R.H.) conditions to prevent CAKING of salt. Store on pallets under protective cover. Do not store cases/bags directly on damp or concrete floors. Avoid PRESSURE PACKING/CAKING of bags by stacking pallets no greater than 3 high.
SPILLS OR LEAKS PROCEDURES
STEPS TO BE TAKEN IN CASE OF SPILL OR LEAK = Non-hazardous. DOT classification = Non-corrosive. Sweep up and flush with water.
WASTE DISPOSAL METHODS = Dry to land fill or dissolve in sufficient amounts of water to meet local existing water quality standards.

SECTION VIII - EMERGENCY & FIRST AID PROCEDURES = Skin and eyes; Flush with water; Ingestion; High fluid intake
Facilitates urinary excretion and relief of edema and temporary elevated high blood pressure.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE = NA

SECTION IX - PREPARATION INFORMATION =

DATE PREPARED: 02/2005
BY: R.E. Traver, Technical Manager
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