

NEWS

Salt is essential to life.

The ionic pattern of blood serum is similar to the composition of the ocean.

Sodium chloride makes up 0.26% of the human body by weight.

CONTENTS OF SALT: 40% Sodium (Na) - 60% Chloride (Cl)

PRODUCTION

MAJOR USES

Major Salt Deposits

Solution Mining
Water is injected into an underground salt deposit, forming a brine which is pumped to the surface. Salt is extracted by evaporation.

Solar Evaporation
Seawater, or brine from an underground deposit is evaporated in shallow ponds. The crystallized salt is "harvested."

Underground salt deposits are mined by the room and pillar method.

Mining

Manufacturing
Salt is used to manufacture products ranging from case hardened steel to textile dyes.

Agriculture
Salt is an essential nutrient, and is used to deliver trace minerals and other supplements to livestock.

Snow & Ice Control
Lifesaving snow & ice control is a major use of salt.

Food Processing
Salt is used to enhance the flavor of foods, and makes otherwise bland foods acceptable to taste. It performs necessary functions in food processing and cooking.

Water Conditioning
Salt is used to "soften" water. Softened water is aesthetically pleasing for bathing and reduces the amount of detergents necessary for cleaning. It also reduces or eliminates the formation of scale in water heaters and pipes.

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SALT: Answer Your Questions

- Terrorists are targeting chlorine trucks in Baghdad. The Dept. of Homeland Security has put out an alert. How is salt an important part of protecting against this threat?
- Where is salt produced and how? How much salt is produced in the U.S.? In the world?
- You say there are 14,000 known uses of salt; what are the major ones?
- Is salt intake related to blood pressure and to people having heart attacks and strokes?
- How many billions of IQ points are lost in the world each year through failure to iodize salt – a top UNICEF and WHO public health priority?
- Are we eating more salt than we used to? Putting more on roads?
- Is it safe to store oil, gas and radioactive wastes in salt deposits?
- What's the difference between table salt and kosher salt? Sea salt?

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■ Dick speaks frequently, does TV/ radio appearances; his articles have appeared in such diverse journals as *Water Conditioning & Purification*, the *British Medical Journal* and *Public Works* magazine. Expert on performance of winter highways, salt supplies during winter storms, environmental issues and all aspects of salt and health.



Richard L. Hanneman, left, and Morton Satin

Morton Satin,
Technical Director

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■ Mort is a frequent presenter and the author of three books. A biochemist, he has CEO-level experience in the food industry and 16 years experience in senior management of the UN Food and Agriculture Organization (FAO) in Rome. His wide-ranging knowledge can dispose of "myth-information" about salt.

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The Salt Institute is the world's foremost source of authoritative information about salt (sodium chloride) and its more than 14,000 known uses. The Institute is a non-profit association of salt producers (manufacturers), founded in 1914.

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