



MSDS FOR SARA REPORTS

**Sodium Chloride
"Rock Salt"
CAS #**

Health	0
Flammability	0
Reactivity	0
Special	

 * CHEMINFO *
 *
 * Canadian Centre for Occupational Health and Safety *
 * Issue : 2000-4 (November, 2000) *

*** SECTION 1. CHEMICAL IDENTIFICATION ***

CHEMINFO RECORD NUMBER : 3407
 CCOHS CHEMICAL NAME : Sodium chloride
 CAS REGISTRY NUMBER : 7647-14-5
 RTECS NUMBER(S) : VZ4725000
 EU EINECS/ELINCS NUMBER : 231-598-3
 CHEMICAL FAMILY : Sodium salt
 MOLECULAR FORMULA : Cl-Na

STATUS :

This CHEMINFO record for this chemical is not complete. It only contains readily available information at this time.

*** SECTION 2. DESCRIPTION ***

APPEARANCE AND ODOUR :

Colourless, transparent crystals or white crystalline powder, odourless (1); hygroscopic (absorbs moisture from the air)

ODOUR THRESHOLD :
 Not applicable

*** SECTION 5. FIRE FIGHTING MEASURES ***

FLASH POINT :

Will not burn

LOWER FLAMMABLE (EXPLOSIVE) LIMIT (LFL/LEL) :

Not applicable

UPPER FLAMMABLE (EXPLOSIVE) LIMIT (UFL/UEL) :

Not applicable

AUTOIGNITION (IGNITION) TEMPERATURE :

Not applicable

COMBUSTION AND THERMAL DECOMPOSITION PRODUCTS :

Not applicable

EXTINGUISHING MEDIA :

Use extinguishing media appropriate to surrounding fire conditions

*** SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION ***

NOTE : Exposure to this material can be controlled in many ways. The measures appropriate for a particular worksite depend on how this material is used and on the extent of exposure. This general information can be used to help develop specific control measures. Ensure that control systems are properly designed and maintained. Comply with occupational, environmental, fire, and other applicable regulations.

SAMPLING AND ANALYSIS :

NIOSH METHOD 7300 - NIOSH Manual of Analytical Methods. 4th ed. Vol. 2. Partially evaluated method for Elements by ICP. Collection on mixed cellulose ester membrane filter. Analysis by inductively coupled argon plasma (ICP-AES) Estimated detection limit: 1 ug
Use appropriate instrumentation and sampling strategy (location, timing, duration, frequency, and number of samples). Interpretation of the sampling results is related to these variables and the analytical method. Sampling should be carried out by trained personnel.

RESPIRATORY PROTECTION GUIDELINES :

No specific guidelines are available. Contact chemical manufacturer, supplier or appropriate government agencies for advice.

RESISTANCE OF MATERIALS FOR PROTECTIVE CLOTHING :

No specific guidelines are available for sodium chloride solid.
Guidelines for sodium chloride, saturated solution (5):
RECOMMENDED (resistance to breakthrough longer than 8 hours): natural rubber, neoprene, nitrile rubber.

Recommendations are NOT valid for very thin natural rubber, neoprene, nitrile and pvc gloves (0.3 mm or less).
Recommendations are valid for permeation rates reaching 0.1 ug/cm2/min or 1 mg/m2/min and over. Resistance of specific materials can vary from product to product. Breakthrough times are obtained under conditions of continuous contact, generally at room temperature. Evaluate resistance under conditions of use and maintain clothing carefully.

** EXPOSURE GUIDELINES **

* THRESHOLD LIMIT VALUES (TLVs) / AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS (ACGIH) / 2000 *

TIME-WEIGHTED AVERAGE (TLV-TWA) : Not established

TLV COMMENTS :

NOTE: In many jurisdictions, exposure limits are similar to the ACGIH TLVs. Since a TLV has not been established for this substance, appropriate government agencies in each jurisdiction should be consulted to determine which regulations apply.

* PERMISSIBLE EXPOSURE LIMITS (PELs) / FINAL RULE LIMITS / U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) *

TIME WEIGHTED AVERAGE (PEL-TWA) : Not established

NOTE: The OSHA PEL Final Rule Limits are currently non-enforceable due to a court decision. The OSHA PEL Transitional Limits are now in force.

* PERMISSIBLE EXPOSURE LIMITS (PELs) / TRANSITIONAL LIMITS / U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) *

TIME WEIGHTED AVERAGE (PEL-TWA) : Not established

TRANSITIONAL LIMIT PEL COMMENTS :

Not established

*** SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES ***

MOLECULAR WEIGHT : 58.44
CONVERSION FACTOR :
Not applicable
MELTING POINT : 801 deg C (1474 deg F) (2)
BOILING POINT : 1413 deg C (2575 deg F) (2)
RELATIVE DENSITY (SPECIFIC GRAVITY) :
2.2 at 20 deg C (water=1) (2)
SOLUBILITY IN WATER :
Very soluble; 37 g/100 mL at 0 deg C (3)
SOLUBILITY IN OTHER LIQUIDS :
Glycerol, alcohol (1)
VAPOUR DENSITY : Not applicable
VAPOUR PRESSURE : Approximately zero
SATURATION VAPOUR CONCENTRATION : Approximately zero
EVAPORATION RATE : Not applicable
pH VALUE : 6.7 - 7.3 in aqueous solution (3)
CRITICAL TEMPERATURE : Not applicable. Does not form vapour
COEFFICIENT OF OIL/WATER DISTRIBUTION (PARTITION COEFFICIENT) :
Log P(oct) = -3.0 (2)

*** SECTION 10. STABILITY AND REACTIVITY ***

STABILITY :
Normally stable
HAZARDOUS POLYMERIZATION :
Does not occur
CORROSIVITY TO METALS :
Corrosive to steel and iron (4)

*** SECTION 12. ECOLOGICAL INFORMATION ***

NOTE : This section is subject to future development.

*** SECTION 14. TRANSPORT INFORMATION ***

** CANADIAN TRANSPORTATION OF DANGEROUS GOODS (TDG)
SHIPPING INFORMATION **

This chemical is not specifically listed in the Canadian Transportation of Dangerous Goods Regulations. However it may be regulated as a part of a chemical family or group Not Otherwise Specified (N.O.S.) (eg. LIQUID DYES N.O.S.). Consult the regulation.

NOTE: This information incorporates Schedule No. 21 amendments to the Transportation of Dangerous Goods Act, 1992, effective December 13, 1995.

** U.S. DEPARTMENT OF TRANSPORT (DOT) HAZARDOUS
MATERIALS SHIPPING INFORMATION (49 CFR) **

This chemical is not specifically listed in the US hazardous materials shipping regulations (49CFR, Table 172.101). However it may be regulated as part of a chemical family or group Not Otherwise Specified (N.O.S.) (eg. mercury-based pesticides). Consult the regulation.

NOTE : This information was taken from the U.S. Code of Federal Regulations Title 49 - Transportation and is effective October 1, 1997.

*** SECTION 15. REGULATORY INFORMATION ***

** CANADIAN WORKPLACE HAZARDOUS MATERIALS
INFORMATION SYSTEM (WHMIS) **

WHMIS INGREDIENT DISCLOSURE LIST :
Not included

** EUROPEAN UNION (EU)
CLASSIFICATION AND LABELLING INFORMATION **

EU CLASSIFICATION :

An official classification for this substance has not been published in Commission Directives as of December 15, 1998.

*** SECTION 16. OTHER INFORMATION ***

SELECTED BIBLIOGRAPHY :

- (1) Hawley's condensed chemical dictionary. 12th ed. Van Nostrand Reinhold, 1993. p. 1052
- (2) Chemical safety sheets. Kluwer Academic Publishers, 1991. p. 794
- (3) HSDB record for sodium chloride. Last updated 9508
- (4) Corrosion data survey. Metals section. 6th ed. National Association of Corrosion Engineers (NACE), 1985. p. 114
- (5) Forsberg, K., et al. Quick selection guide to chemical protective clothing. 3rd ed. Van Nostrand Reinhold, 1997

Information on chemicals reviewed in the CHEMINFO database is drawn from a number of publicly available sources. A list of general references used to compile CHEMINFO records is available in the database Help.

REVIEW/PREPARATION DATE :

1996-01-22

REVISION INDICATORS :

Resistance of materials; 1998-05

Bibliography; 1998-05

*** END OF RECORD ***