

MATERIAL SAFETY DATA SHEET (M.S.D.S)

THE DATA GIVEN HERE IS BASED ON CURRENT KNOWLEDGE AND EXPERIENCE WITH LABORATORY TESTS. THE PURPOSE OF THIS MATERIAL SAFETY DATA SHEET IS TO DESCRIBE THE PRODUCTS IN TERMS OF THEIR SAFETY REQUIREMENTS. THE DATA DOES NOT SIGNIFY ANY WARRANTY WITH REGARD TO THE PRODUCT PROPERTIES.

1. CHEMICAL PRODUCTS AND COMPANY IDENTIFICATION

SALT TABLET

(Sodium Chloride or NaCl are other known names as)

(Usage : For Water Softening Purpose – Industrial Use Only)



2. COMPOSITION/INFORMATION ON INGREDIENTS

Calcium as Ca	: 0.017	%
Magnesium as Mg	: 0.016	%
Sulphate as So4	: 0.016	%
Sodium Chloride as NaCl*	: 99.50++	%
Moisture	: 0.154	%
Water Insoluble	: 0.017	%

3. HAZARDS IDENTIFICATION

EYES: CONTACT MAY CAUSE TRANSIENT EYE IRRITATION

SKIN: LOW HAZARD FOR USUAL INDUSTRIAL HANDLING

INGESTION: PERMITTED FOOD ADDITIVE. INGESTION OF LARGE AMOUNT MAY CAUSE DIGESTIVE TRACT IRRITATION.

INHALATION: MAY CAUSE RESPIRATORY TRACT IRRITATION.

CHRONIC: NOT AVAILABLE.

4. FIRST-AID MEASURES

EYES: CONTAMINATION OF THE EYES MUST BE TREATED BY THROUGH IRRIGATION WITH WATER, WITH THE EYELIDS HELD OPEN. EVENTUALLY A DOCTOR (OR EYE SPECIALIST) SHOULD BE CONSULTED.

SKIN: WASH SKIN WITH PLENTY OF WATER.

INGESTION: GIVE ANTACID AND MILK AFTER INGESTION OF LARGE AMOUNTS.

INHALATION: REMOVE FROM EXPOSURE TO FRESH AIR IMMEDIATELY.

IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.

NOTES TO PHYSICIAN: TREAT SYMPTOMATICALLY.

5. FIRE-FIGHTING MEASURES

GENERAL INFORMATION: DOES NOT BURN READILY. AS IN ANY FIRE, WEAR A SELF-CONTAINED BREATHING APPARATUS IN PRESSURE DEMAND (MSHA/NIOSH APPROVED OR EQUIVALENT), AND FULL PROTECTIVE GEAR.

EXTINGUISHING MEDIA: NO RESTRICTION.

AUTOIGNITION TEMPERATURE: NOT AVAILABLE.

FLASH POINT: NOT AVAILABLE.

EXPLOSION LIMITS: NOT AVAILABLE.

6. ACCIDENTAL RELEASE MEASURES

GENERAL INFORMATION: USE PROPER PERSONAL PROTECTIVE EQUIPMENT AS INDICATED IN EXPOSURE CONTROL/ PERSONAL PROTECTION CLAUSE. SPILLS/LEAKS: TAKE UP MECHANICALLY, AVOID DUST FORMATION. RINSE AWAY RESIDUE WITH PLENTY OF WATER.

7. HANDLING AND STORAGE

HANDLING: AVOID BREATHING DUST, VAPOR, MIST, OR GAS. AVOID CONTACT WITH SKIN AND EYES.

STORAGE: NON-TOXIC. KEEP CONTAINER DRY IN A COOL AND WELL VENTILATED PLACE. NO SPECIAL MEASURES REQUIRED.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

EYES PROTECTION: WEAR APPROPRIATE PROTECTIVE EYEGLASSES OR CHEMICAL

SAFETY GOGGLES AS DESCRIBED BY OSHA'S EYE ANDFACE PROTECTION REGULATION IN 29 CFR 1910.133 OR EUROPEANSTANDARD EN166.

SKIN PROTECTION: WEAR APPROPRIATE PROTECTIVE RUBBERGLOVES TO PREVEN SKIN EXPOSURE. AVOID PROLONGED SKINCONTACT. WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENTSKIN EXPOSURE.

RESPIRATORY PROTECTION: IF PRODUCT FORMS DUST, WEAR DUCTPROTECTION MASK, AVOID INHALING DUST. FOLLOW THE OSHARESPIRATOR REGULATIONS FOUND IN 29CFR 1910. 134 OR EUROPEANSTANDARD EN 149. ALWAYS USE A NIOSH OR EUROPEAN STANDARDEN 149 APPROVED RESPIRATOR WHEN NECESSARY.

ENGINEERING CONTROLS: USE ADEQUATE VENTILATION TO KEEP AIRBORNE CONCENTRATIONS LOW.

9. PHYSICAL AND CHEMICAL PROPERTIES

MOLECULAR FORMULA: NaCl (SODIUM CHLORIDE)

MOLECULAR WEIGHT: 58.5

FORM: TABLET

COLOR: WHITE

ODOR: ODORLESS

MELTING POINT: 801° C

VISCOSITY: NOT AVAILABLE BOILING

POINT (Decomposes): 1413° C VAPOR

PRESSURE NEGLIGIBLE: N.A.

LOG P OCTANOL/WATER -3.0

SOLUBILITY IN WATER, g/100ml at 20° C: 37

RELATIVE DENSITY (WATER=1): 2.2

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: STABLE UNDER NORMAL TEMPERATURES ANDPRESSURES.

CONDITION TO AVOID: MAY DELIQUESCE IN THE WET AIR AND MAYLUMP UNDER A CERTAIN PRESSURE OR IN THE HIGH TEMPERATURECONDITION. AFTER A LONG-TIME EXPOSURE IN THE OPENINGENVIRONMENT, THE MATERIAL MAY DECOMPOUND AND BE YELLOWY.

INCOMPATIBILITIES WITH OTHER MATERIALS: ALKALE SCENCEMATERIALS.

THERMAL DECOMPOSITION: BEGINS TO CHAR AT 170HAZARDOUS

DECOMPOSITION PRODUCTS: PRODUCTS NOTDETERMINED

11. TOXICOLOGICAL INFORMATION

WITH MANY YEARS OF EXPERIENCE IN THE PRODUCTION AND USEOF THE PRODUCT

NO EFFESTS DETRIMENTAL TO HEALTH ARE KNOWN.LO50 (ORAL) 11, 700 MG/KG

TESTED IN RATS

12. ECOLOGICAL INFORMATION

ECOTOXICITY: NOT AVAILABLE.

BOD5 AND COD: NOT AVAILABLE.

PRODUCT OF BIODEGRATION:

POSSIBLY HAZARDOUS SHORT TERM DEGRADATION PRODUCTS ARE NOT LIKELY.
HOWEVER, LONG TERM DEGRADATION PRODUCTS MAY ARISE.

TOXICITY OF THE PRODUCTS OF BIODEGRADATION: THE PRODUCTS ITSELF AND ITS
PRODUCTS OF DEGRADATION ARE NOT TOXIC.

13. DISPOSAL CONSIDERATIONS

WASH TO DRAIN WITH COPIOUS QUANTITIES OF WATER ORNEUTRALISE WITH LIME OR
SODIUM HYDROXIDE BEFORE DISPOSAL TODRAIN. FULLY BIODEGRADABLE. WATER
SOLUBLE. DRY WASTEPRODUCTS LANDFILL OR INCINERATE. DISPOSE OF IN A
MANNERCONSISTENT WITH LOCAL REGULATIONS.

14. TRANSPORT INFORMATION

DOT CLASIFICATION: NOT A DOT CONTROLLED MATERIAL (UNITED STATES).

IDENTIFICATION: NOT APPLICABLE.

SPECIAL PROVISIANS FOR TRANSPORT: NOT APPLICABLE.

15. OTHER REGULATORY INFORMATION

FEDERAL AND STATE REGULATIONS: TSCA 8(b) INVENTORY: SODIUM CHLORIDE OTHER REGULATIONS: EINECS: THIS PRODUCT IS ON THE EUROPEAN INVENTORY OF EXISTING COMMERCIAL CHEMICAL SUBSTANCES.

OTHER CLASSIFICATION:

WHMIS (CANADA): NOT CONTROLLED UNDER WHMIS (CANADA).

DSCL (EEC):

R40- POSSIBLE RISKS OF IRREVERSIBLE EFFECTS. S24/25- AVOID CONTACT WITH SKIN AND EYES.

HMIS (U.S.A.):

HEALTH HAZARD: 1

FIRE HAZARD: 0

REACTIVITY: 0

PERSONAL PROTECTION: E

NATIONAL FIRE PROTECTION ASSOCIATION (U.S.A.):

HEALTH: 1

FLAMMABILITY: 0

REACTIVITY: 0

SPECIAL HAZARD:

PROTECTIVE EQUIPMENT:

GLOVES. LAB COAT. DUST RESPIRATOR. BE SURE TO USE AN APPROVED/ CERTIFIED RESPIRATOR OR EQUIVALENT. SPLASH GOGGLES.

16. OTHER INFORMATION

HAWLEY, G.G... THE CONDENSED CHEMICAL DICTIONARY, 11E ED., NEW YORK, VAN NOSTRAND REINOLD, 1987. -SAX, N.I.

DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS. TORONTO, VAN NOSTRAND REINOLD, 6E ED. 1984.- THE SIGMA- ALDRICH LIBRARY OF CHEMICAL SAFETY DATA, EDITION

OTHER SPECIAL CONSIDERATIONS: NOT AVAILABLE.

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