

MATERIAL SAFETY DATA SHEET

NAME OF PRODUCT
4/7/05

FILE NO.: IS50
MSDS DATE: IS160
IS200

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Instant Ocean synthetic sea salt
SYNONYMS:
PRODUCT CODES: SS30-5, SS15-10, SS6-25, SS3-50, SS1-160P, SS1-200

MANUFACTURER: Aquarium Systems, Inc.
DIVISION:
ADDRESS: 8141 Tyler Blvd., Mentor, OH 44060

EMERGENCY PHONE: 800-822-1100
CHEMTREC PHONE:
OTHER CALLS:
FAX PHONE:

CHEMICAL NAME: mixture of ionic solids
CHEMICAL FAMILY:
CHEMICAL FORMULA:

PRODUCT USE: for use in marine aquariums
PREPARED BY: Bob Studt

SECTION 1 NOTES:

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT:</u> NaCl	58%
MgCl2	-
NaSO4	-
CaCl2	-
KCl	-

<u>CAS NO.</u>	<u>% WT</u>	<u>% VOL</u>	<u>SARA 313 REPORTABLE</u>
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	<u>ppm</u>	<u>mg/m3</u>
OSHA PEL-TWA:	N/A	
OSHA PEL STEL :		
OSHA PEL CEILING:		
ACGIH TLV-TWA:	N/A	
ACGIH TLV STEL:		
ACGIH TLV CEILING:		

SECTION 2 NOTES:

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: not generally considered toxic

ROUTES OF ENTRY: eyes, skin, ingestion, inhalation

POTENTIAL HEALTH EFFECTS

EYES: irritant

SKIN: possible irritant

INGESTION: possible nausea if large amounts ingested

INHALATION: possible irritant to membranes

ACUTE HEALTH HAZARDS: possible irritant, not generally considered toxic

CHRONIC HEALTH HAZARDS: possible irritant, not generally considered toxic

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MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: no determined

CARCINOGENICITY

OSHA:

ACGIH:

NTP:

IARC:

OTHER:

SECTION 3 NOTES: not listed as a carcinogen

SECTION 4: FIRST AID MEASURES

EYES: Flush with fresh water

SKIN: Wash with soap and water

INGESTION: Drink water to dilute

INHALATION: If membranes are irritated, seek medical attention

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:

SECTION 4 NOTES:

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, UPPER: N/A
(% BY VOLUME) LOWER: N/A

FLASH POINT: N/A

F:

C:

METHOD USED: N/A

AUTOIGNITION TEMPERATURE: N/A

F:

C:

NFPA HAZARD CLASSIFICATION

HEALTH:

FLAMMABILITY:

REACTIVITY:

OTHER:

HMIS HAZARD CLASSIFICATION

HEALTH:

FLAMMABILITY:

REACTIVITY:

PROTECTION:

EXTINGUISHING MEDIA: non-flammable

SPECIAL FIRE FIGHTING PROCEDURES: none

UNUSUAL FIRE AND EXPLOSION HAZARDS: none

HAZARDOUS DECOMPOSITION PRODUCTS: none

SECTION 5 NOTES:

SECTION 6: ACCIDENTAL RELEASE MEASURES

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ACCIDENTAL RELEASE MEASURES: Sweep up dry and discard; if wet, mop up and rinse down drain.

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SECTION 6 NOTES:

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: No special precautions, store in a cool dry place.

OTHER PRECAUTIONS: none

SECTION 7 NOTES:

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

VENTILATION : Local exhaust for nuisance dust

RESPIRATORY PROTECTION: standard dust mask

EYE PROTECTION: safety goggles with side shields

SKIN PROTECTION: protective gloves to preven irritation

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: none

WORK HYGIENIC PRACTICES: general good housekeeping practices

EXPOSURE GUIDELINES: leaving on skin for prolonged period may lead to irritation, rinse off skin with fresh water.

SECTION 8 NOTES:

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: white odorless crystals

ODOR: none

PHYSICAL STATE: solid

pH AS SUPPLIED: not determined

pH (Other): ~8 to 8.5 when dissolved as directed

BOILING POINT: N/A

F:

C:

MELTING POINT: N/A

F:

C:

FREEZING POINT: N/A

F:

C:

VAPOR PRESSURE (mmHg): N/A

@

F:

C:

VAPOR DENSITY (AIR = 1): N/A

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F:
C:
SPECIFIC GRAVITY (H2O = 1): 2.17
@

F:
C:
EVAPORATION RATE: N/A

BASIS (=1):

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (con't)

SOLUBILITY IN WATER: 35g/100mL

PERCENT SOLIDS BY WEIGHT: ~85%

PERCENT VOLATILE: not determined
BY WT/ BY VOL @

F:
C:
VOLATILE ORGANIC COMPOUNDS (VOC): none

WITH WATER:	LBS/GAL
WITHOUT WATER:	LBS/GAL

MOLECULAR WEIGHT: N/A
VISCOSITY: not determined
@

F:
C:

SECTION 9 NOTES:

SECTION 10: STABILITY AND REACTIVITY

STABLE

UNSTABLE

STABILITY: Stable

CONDITIONS TO AVOID (STABILITY): none

INCOMPATIBILITY (MATERIAL TO AVOID): none

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: none

HAZARDOUS POLYMERIZATION: will not occur

CONDITIONS TO AVOID (POLYMERIZATION): none

SECTION 10 NOTES:

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: not generally considered toxic

SECTION 11 NOTES:

SECTION 12: ECOLOGICAL INFORMATION

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SECTION 12 NOTES:

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: landfill for dry material

RCRA HAZARD CLASS:

SECTION 13: DISPOSAL CONSIDERATIONS (con't)

SECTION 13 NOTES:

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME:

HAZARD CLASS:

ID NUMBER:

PACKING GROUP:

LABEL STATEMENT:

WATER TRANSPORTATION

PROPER SHIPPING NAME:

HAZARD CLASS:

ID NUMBER:

PACKING GROUP:

LABEL STATEMENTS:

AIR TRANSPORTATION

PROPER SHIPPING NAME:

HAZARD CLASS:

ID NUMBER:

PACKING GROUP:

LABEL STATEMENTS:

OTHER AGENCIES:

SECTION 14 NOTES:

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT):

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

311/312 HAZARD CATEGORIES:

313 REPORTABLE INGREDIENTS:

STATE REGULATIONS:

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INTERNATIONAL REGULATIONS:

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SECTION 15 NOTES:

SECTION 16: OTHER INFORMATION

OTHER INFORMATION:

PREPARATION INFORMATION:

DISCLAIMER: The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.