

OCCIDENTAL CHEMICAL CORPORATION, OCCIDENTAL TOWER -- SODIUM HYPOPHOSPHITE (ALL GRADES) -- 6810-00-034-6708

===== Product Identification =====

Product ID:SODIUM HYPOPHOSPHITE (ALL GRADES)

MSDS Date:01/01/1998

FSC:6810

NIIN:00-034-6708

Status Code:A

MSDS Number: CKFBP

=== Responsible Party ===

Company Name:OCCIDENTAL CHEMICAL CORPORATION, OCCIDENTAL TOWER

Address:5005 LBJ FREEWAY

Box:809050

City:DA

LLAS

State:TX

ZIP:75380

Country:US

Info Phone Num:972-404-3800/800-899-4970 (MSDS)

Emergency Phone Num:800-733-3665

Resp. Party Other MSDS Num.:M37824

CAGE:TO532

=== Contractor Identification ===

Company Name:CHEMICAL MANAGEMENT SYSTEMS LLC DBA CHEMICAL MANAGEMENT SYST

Address:11029 NATURAL BRIDGE

Box:City:BRIDGETON

State:MO

ZIP:63044

Country:US

Phone:314-731-7278

Contract Num:SP0450-00-M-D674

CAGE:1LFJ4

Company Name:OCCIDENTAL CHEMICAL CORPORATION, OCCIDENTAL TOWER

Address:5005 LBJ FREEWAY

Box:809050

City:DALLAS

State:TX

ZIP:75380

Country:US

Phone:972-404-3800/800-699-4970 (MSDS)

CAGE:TO532

===== Composition/Information on Ingredients =====

Ingred Name:PHOSPHINIC ACID, SODIUM SALT

CAS:7681-53-0

RTECS #:WB5950000

Minimum % Wt:99.5

Maxumum % Wt:100.

===== Hazards Identification =====

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:TARGE

T ORGANS: EYES, SKIN, RESPIRATORY

TRACT. ACUTE: INHALATION: MAY BE IRRITATING. EYES: MAY BE IRRITATING. SKIN: MAY BE IRRITATING. INGESTION: NOT HIGHLY TOXIC IF SWALLOWED. IF INGESTED, MATERIAL IS RAPIDLY EXCRETED IN THE URINE UNCHANGED. CHRONIC: NONE KNOWN.

Explanation of Carcinogenicity:NOT KNOWN TO BE CARCINOGENIC.

Effects of Overexposure:NONE PROVIDED BY MFR.

Medical Cond Aggravated by Exposure:NONE KNOWN.

===== First Aid Measures =====

First Aid:EYES-IMMEDIATELY FLUSH EYES WITH A DIRECTED STREAM OF WATER FOR 15 MINS. FORCEABLY HOLDING EYELIDS APART TO ENSURE COMPLETE IRRIGATION OF ALL EYE & LID TISSUE. IF IRRITATION PERSISTS GET MEDICAL ATTENTION. SKIN-WASH THOROUGHLY WITH SOAP & WATER. IF IRRITATION OCCURS, GET MEDICAL ATTENTION. INHALATION-IF SYMPTOMS DEVELOP, REMOVE TO FRESH AIR. INGESTION-NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. HAVE PATIENT DRINK SEVERAL GLASSES OF WATER THEN INDUCE VOMITING BY HAVING PATIENT TICKLE BACK OF THROAT WITH FINGER. KEEP AIRWAY CLEAR. GET MEDICAL ATTENTION IMMEDIATELY.

===== Fire Fighting Measures =====

Extinguishing Media:USE AGENTS APPROPRIATE FOR SURROUNDING FIRE.

Fire Fighting Procedures:DECOMPOSES VIOLENTLY WHEN 100% SODIUM HYPOPHOSPHITE IS HEATED ABOVE 285 DEG C (545 DEG F) & WILL YIELD TOXIC OXIDES OF PHOPHORUS & PHOSPHINE GAS. UNDER THESE CONDITIONS, DO NOT EXTINGUISH FLAMES DU

ETO THE POSSIBILITY OF PHOSPHINE GAS

ACCUMULATION. USE WATER SPRAY TO COOL CONTAINERS.

Unusual Fire/Explosion Hazard:PHOSPHINE GAS LIBERATED DURING

OVERHEATING OF 100% DOSIUM HYPOPHOSPHITE IS EXTREMELY FLAMMABLE & TOXIC. IT REACTS VIOLENTLY WITH OXYGEN & HALOGENS.

===== Accidental Release Measures =====

Spill Release Procedures:FOLLOW PROTECTIVE MEASURES PROVIDED UNDER PERSONAL PROTECTION SECTION. SCOOP OR SWEEP UP TO AVOID SLIPPING HAZARD & EN

VIRONMENTAL CONTAMINATION. SPILLS ON AREAS OTHER THAN PAVEMENT, E.G. DIRT OR SAND, MAY BE HANDLED BY REMOVING THE AFFECTED SOILS & PLACING IN APPROVED CONTAINERS.

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===== Handling and Storage =====

Handling and Storage Precautions:HANDLING: DO NOT GET IN EYES, ON SKIN OR CLOTHING. WEAR PERSONAL PROTECTIVE EQUIPMENT AS DESCRIBED IN CONTROLS/PERSONAL PROTECTION SECTION OF THE MSDS. KEEP CONTAINER TIGHTLY CLOSED & PROPERLY LABELED . PREVENT EN TRY OF ATMOSPHERIC MOISTURE.

Other Precautions:STORAGE: DO NOT REUSE CONTAINERS. STORE CONTAINERS IN A COOL, DRY, VENTILATED, FIRE RESISTANT AREA AWAY FROM DIRECT HEAT AND SEPERATED FROM OXIDIZERS.

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===== Exposure Controls/Personal Protection =====

Respiratory Protection:WEAR A NIOSH/MSHA APPROVED RESPIRATOR FOLLOWING MANUFACTURER'S RECOMMENDATIONS, WHERE AIRBORNE CONTAMINANTS MAY OCCUR.

Ventilation:GENERAL ROOM VENTILATION PLUS LOCAL EXHAUST AT POINTS OF

EMISSION TO MAINTAIN LEVELS OF AIRBORNE CONTAMINANTS BELOW EXPOSURE LIMITS.

Protective Gloves:CHEMICAL RESISTANT GLOVES SUCH AS RUBBER, NEOPRENE OR VINYL.

Eye Protection:SAFETY GLASSES WITH SIDE SHIELDS OR CHEMICAL SAFETY GOGGLES.

Other Protective Equipment:WEAR PROTECTIVE CLOTHING TO MINIMIZE SKIN CONTACT. EMERGENCY SHOWER & EYEWASH FACILTY SHOULD BE IN CLOSE PROXIMITY.

Work Hygienic Practices:WASH CLOTHING BEFORE REUSE.

Supplemental Safety and Health

NOTES TO PHYSICIAN:

NO SPECIALIZED PROCEDURES. TREAT FOR CLINICAL SYMPTOMS.

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===== Physical/Chemical Properties =====

HCC:N1

pH:7 @ 500 MG/L

Solubility in Water:100% AT 25 DEG C

Appearance and Odor:FREE-FLOWING ODORLESS WHITE CRYSTALLINE SOLID

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===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

REACTS WITH: HEAT, OXIDIZERS, ALKALIS.

Stability Condition to Avoid:AVOID CONTACT WITH OXIDIZING AGENTS.

Hazardous Decomposition

Products:DECOMPOSITION PRODUCTS CAN INCLUDE SPONTANEOUSLY FLAMMABLE GAS, OXIDES OF PHOSPHORUS AND ACIDIC RESIDUES.

Conditions to Avoid Polymerization:WILL NOT OCCUR

===== Toxicological Information =====

Toxicological Information:HYPOPHOSPHITE ION IS AN ANALOGUE OF BOTH THE BICARBONATE & PHOSPHATE IONS & IT IS KNOWN TO BE RAPIDLY TRANSPORTED ACROSS THE HUMAN RED CELL MEMBRANE VIA THE ANION TRANSPORT PROTEIN. HYPOPHOSPHOROUS ACID HAS A SINGLE

PKA OF 1.1 &

AT PHYSIOLOGICAL PH VALUE IT IS PRESENT ALMOST ENTIRELY AS THE UNIVALENT HYPOPHOSPHORIC ION. SODIUM HYPOPHOSPHITE IS AN ANTIOXIDANT (REDUCING AGENT) & HAS BEEN SHOWN TO BE BENEFICIAL IN BIOLOGICAL SYSTEMS BY VIRTUE OF ITS, FREE-RADICAL SCAVANGING PROPERTIES. THE BACTERIAL GROWTH INHIBITING PROPERTIES SHOWS SODIUM HYPOPHOSPHITE HAS POTENTIAL AS A FOOD INGREDIENT AGAINST GRAM-POSITIVE FOOD BORNE PATHOGENS

===== Ecological Information =====

Ecological:THERE IS NO INFORMATION AVAILABLE ON THE ENVIRONMENTAL FATE AND EFFECTS OF THIS MATERIAL. DUE CAUTION SHOULD BE EXERCISED TO AVOID THE ACCIDENTAL RELEASE OF THIS MATERIAL TO AQUATIC OR TERRESTRIAL ENVIRONMENTS.

===== Disposal Considerations =====

Waste Disposal Methods:DISPOSE OF ALL WASTE & CONTAMINATED EQUIPMENT IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE & LOCAL HEALTH & ENVIRONMENTAL REGULATIONS.

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===== MSDS Transport Information =====

Transport Information:DOT INFORMATION: NOT REGULATED.

===== Regulatory Information =====

SARA Title III Information:IMMEDIATE (ACUTE) HEALTH: NO. DELAYED (CHRONIC) HEALTH: NO. FIRE HAZARD: NO. REACTIVE HAZARD: NO. SUDDEN RELEASE OF PRESSURE: NO.

Federal Regulatory Information:TSCA: ALL COMPONENTS OF THIS PRODUCT THAT ARE REQUIRED TO BE ON THE TSCA INVENTORY ARE LISTED ON THE INV

ENTORY.

State Regulatory Information:CONSULT LOCAL LAWS FOR APPLICABILITY.

===== Other Information =====

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