

VAN WATERS & ROGERS INC -- SODIUM HYPOCHLORITE 7-15%

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MSDS Safety Information  
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FSC: 6810  
MSDS Date: 11/09/1994  
MSDS Num: CBDVF  
LIIN: 00N066671  
Product ID: SODIUM HYPOCHLORITE 7-15%  
MFN: 01  
Responsible Party  
Cage: DO735  
Name: VAN WATERS & ROGERS INC  
Address: 6100 CARILLON POINT  
City: KIRKLAND WA 98033  
Info Phone Number: 206-889-3400  
Emergency Phone Number: 800-424-9300 (CHEMTREC)  
Published: Y

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Contractor Summary  
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Cage: DO735  
Name: VAN WATERS & ROGERS SUB OF UNIVAR  
Address: 6100 CARILLON POINT  
City: KIRKLAND WA 98033  
Phone: 425-889-3400  
Cage: OSTM5  
Name: VAN WATERS AND ROGERS INC  
Address: 6100 CARILLON POINT  
City: KIRKLAND WA 98033-7357  
Phone: 425-889-3400/425-889-3617

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Ingredients  
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Cas: 7681-52-9  
RTECS #: NH3486300  
Name: HYPOCHLOROUS ACID, SODIUM SALT; (SODIUM HYPOCHLORITE) (CERCLA)  
% Wt: 7-15  
OSHA PEL: N/K (FP N)  
ACGIH TLV: N/K (FP N)  
EPA Rpt Qty: 100 LBS  
DOT Rpt Qty: 100 LBS

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Cas: 7732-18-5  
RTECS #: ZC0110000  
Name: WATER  
% Wt: 73-87  
OSHA PEL: N/K (FP N)  
ACGIH TLV: N/K (FP N)

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Cas: 1310-73-2  
RTECS #: WB4900000  
Name: SODIUM HYDROXIDE (CERCLA)  
% Wt: 0.5-2.5  
OSHA PEL: 2 MG/M3  
ACGIH TLV: 2 MG/M3, C  
EPA Rpt Qty: 1000 LBS  
DOT Rpt Qty: 1000 LBS

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Cas: 7647-14-5  
RTECS #: VZ4725000  
Name: SODIUM CHLORIDE  
% Wt: 5-11  
OSHA PEL: N/K (FP N)

ACGIH TLV: N/K (FP N)

Name: SUPDAT:SINGLE EXPOS EXCEPT FOR EFTS SECONDARY TO TISS DESTRUCTION. SODIUM HYPOCHLORITE HAS PRDCED DMG TO GENETIC

Name: ING 5: MATL WHEN TESTED IN VITRO. STUDIES IN VIVO SHOW NO EVID OF MUTAGENIC POTNTL. CHEMS W/POTENT BIOCIDAL

Name: ING 6: ACTIVITY, TYPICAL OF HYPOCHLORITE CMPDS MAY COMPROMISE INTEGRITY OF MANY OF TREATED CELLS WHICH REMAIN

Name: ING 7: POTNTL FOR MATL. CHEMS W/POTENT BIOCIDAL ACTIVITY, TYPICAL OF HYPOCHLORITE CMPDS MAY COMPROMISE INTEGRITY

Name: ING 8:VIABLE DURING IN VITRO ESSAY. RSLT WOULD LIKELY PRDCE CELLULAR CHGS GIVING RISE TO RESPONSE INDICATIVE OF

Name: ING 9: MUTATION. IT IS JUDGED THAT RISK OF GENETIC DMG IS INSIGNIFICANT BECAUSE OF BIOCIDAL ACTIVITY, LACK OF

Name: ING 10: MUTAGENICITY IN VIVO & FAILURE TO PRODUCE CARCINOGENIC RESPONSE.

Name: FIRST AID: HDCH/DIZZ EXPERIENCED, STOP WORK IMMED & MOVE TO FRESH AIR UNTIL SYMPS DISAPPEAR. IF BRTHG IS DFCLT,

Name: ING 12:ADMIN O\*2, KEEP WARM & AT REST. CALL MD. IF PERSON INHALES ENOUGH VAP TO BECOME UNCON, MOVE TO FRESH AIR

Name: ING 13: @ ONCE & CALL MD IMMED. IF BRTHG STOPPED, GIVE ARTF RESP IMMED. IN ALL CASES ENSURE ADEQ VENT & PROVIDE

Name: ING 14: NIOSH/MSHA APPRVD RESP PROT BEFORE PERSON RETURNS TO WORK.

Name: SPILL PROC:H\*2O RELS:MATL IS SOL IN H\*2O. DIKE/CNTN MATL VIA USE OF COMPAT ABSORBS. REMOVE MATL W/USE OF VACUUM

Name: ING 16: OR PUMP OPERATION & TREAT BEFORE DISPOSITION. MATL HARMFUL TO AQ LIFE. LAND SPILL: COMPAT ABSORBS:SAND,

Name: ING 17:CLAY SOIL/COMMERCIAL ABSORBS. SPILL RESIDUES:DISP PER GUIDELINES. RESPONSE TO MATL REQS USE OF NIOSH/MSHA

Name: ING 18:APPRVD SCBA. WEAR ADDNL PROT CLTHG TO PVNT PERSONAL CNTCT INCL BOOTS, GLOVES, HARD HAT, IMPERVIOUS CLTHG

Name: ING 19: I.E. CHEM IMPERMEABLE SUIT. COMPAT MATLS FOR RESPONSE TO MATL ARE NEOPRENE, BUTYL RUB, VITON & SARANEX.

Name: WASTE DISP:REGS BY TREATMENT IN WASTEWATER SYS. TAKE CARE TO PVNT ENVIRON CONTAM FROM MATL USE. USER OF MATL HAS

Name: ING 21: RESPONSIBILITY TO DISPOSE OF UNUSED MATL, RESIDUES & CNTNRS I/A/W ALL LOC, STATE & FED LAWS & REGS.

Name: HNDLG/STOR PRECS:POSS TEMP BUT KEEP FROM FREEZING. SHELF LIFE:UP TO 6 MOS @ 60F/LOWER. METAL CNTNRS INCOMPAT FOR

Name: ING 23:PACKAGING. OXIDIZERS, ACIDS, NITROGEN CNTNG MATLS SUCH AS QUATERNARY AMMONIUM SALTS-INCOMPAT FOR STOR/TRANSPORT.

Name: EYE PROT: AND FULL LENGTH FACESHIELD (FP N).

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Health Hazards Data

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 LD50 LC50 Mixture: LD50: (ORAL, RAT) APPROX 3-5 G/KG  
 Route Of Entry Inds - Inhalation: YES  
 Skin: YES  
 Ingestion: YES  
 Carcinogenicity Inds - NTP: NO  
 IARC: NO  
 OSHA: NO

Effects of Exposure: ACUTE:HARMFUL IF INHAL/INGEST. HARMFUL IF EXPOS TO SKIN/EYES. INHAL:MATL IS IRRIT TO NOSE, MOUTH, THROAT & LUNGS. MAY ALSO CAUSE BURNS TO RESP TRACT W/PRODUCTION OF LUNG EDEMA WHICH CAN RSLT IN SHORTNESS OF BREATH, WHEEZING, CHOKING, CHEST PAIN & LUNG FUNC IMPAIRMENT. INHAL OF HIGH CONCS CAN RSLT IN (EFTS OF OVEREXP)

Explanation Of Carcinogenicity: NOT RELEVANT

Signs And Symptions Of Overexposure: HLTH HAZ:PERM LUNG DMG. EYE:SEV IRRIT &/OR BURNS CAN OCCUR FOLLOWING EXPOS. CNTCT MAY CAUSE IMPAIRMENT OF VISION & CORNEAL DMG. SKIN:EXPOS CAN CAUSE SEV IRRIT &/OR BURNS CHARACT BY REDNESS, SWELL & SCAB FORM. PRLNGD SKIN EXPOS MAY CAUSE DES TRUCTION OF DERMIS W/IMPAIRMENT OF SKIN AT SITE OF CNTCT TO REGENERATE. (SUPDAT)

Medical Cond Aggravated By Exposure: ASTHMA AND RESPIRATORY AND CARDIOVASCULAR DISEASE.

First Aid: EYES:IMMED FLUSH W/LG AMTS OF WATER FOR @ LEAST 15 MIN, OCCAS LIFTING UPPER & LOWER LIDS. CALL MD @ ONCE. SKIN:IMMED FLUSH W/WATER FOR @ LEAST 15 MIN. CALL MD. IF CLTHG COMES IN CNTCT W/PROD IT SHOULD BE REMOVED IMMED & LAUNDERED BEFORE REU SE. INGEST:IMMED DRINK LG QTYS OF WATER. DO NOT INDUCE VOMIT. CALL MD @ ONCE. DO NOT GIVE ANYTHING BY MOUTH IF UNCON/IF HAVING CONVLIS. INHAL:IF NAUS,

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 Handling and Disposal  
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Spill Release Procedures: FOR ALL TRANSPORTATION ACCIDENTS CALL CHEMTREC, 800-424-9300. RQ:100 LBS. HAZ CONCS IN AIR MAY BE FOUND IN LOC SPILL AREA & IMMED DOWNWIND. AIR RELS:VAPS MAY BE SUPPRESSED BY USE OF WATER FOG. CAPTURE ALL RUN OFF WATER FOR TREATMENT & DISP.

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Methods: IF PROD BECOMES WASTE IT DOES NOT MEET CRITERIA OF HAZ WASTE AS DEFINED UNDER 40CFR 261; IT DOES NOT EXHIBIT CHARACTS OF HAZ WASTE OF SUBPART C NOR LISTED AS HAZ UNDER SUBPART D. AS NONHAZ LIQ WASTE, IT SHOULD BE DISP I/A/W LOC, STATE & FED

Handling And Storage Precautions: STORE IN COOL, DRY, WELL-VENT AREA. AVOID HIGH TEMPS & EXPOS TO & DIRECT SUNLIGHT. DO NOT STORE >15-21C(60-70F). STORE IN DARK AT LOWEST

Other Precautions: ODOR THRESHOLD: APPROX 0.9 MG/M3 (0.3 PPM) BASED ON ODOROF CHLORINE. THERE IS NO DATA FOR IRRITATION THRESHOLD. SODIUM HYPOCHLORITEHAS POTENTIAL TO BE IMMEDIATELY DANGEROUS TO LIFE OR HEALTH.

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 Fire and Explosion Hazard Information  
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Extinguishing Media: ON SMALL FIRE, USE DRY CHEMICAL, CARBON DIOXIDE OR WATER SPRAY. ON LARGE FIRES, USE WATER IN FLOODING QUANTITIES AS FOG.

Fire Fighting Procedures: USE NIOSH/MSHA APPROVED SCBA & FULL PROTECTIVE EQUIPMENT (FP N).

Unusual Fire/Explosion Hazard: IN CASE OF FIRE, HAZARDOUS CONCENTRATIONS OF CHLORINE MAY BE FORMED.

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 Control Measures  
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Respiratory Protection: RESP PROT NOT NORM NEEDED SINCE VOLATILITY & TOXICITY ARE LOW. IF VAPORS, MISTS OR AEROSOLS ARE GENERATED, WEAR NIOSH/MSHA APPRVD RESP EQUIPPED W/CHEM CARTRIDGES FOR PROT AGAINST CHLORINE GAS & DUST MIST PRE-FILTERS.

Ventilation: LOCAL EXHAUST VENTILATION IS RECOM IF VAPORS, MISTS OR AEROSOLS ARE GENERATED. OTHERWISE, USE GEN EXHAUST VENTILATION.

Protective Gloves: IMPERMEABLE GLOVES.  
 Eye Protection: ANSI APPRVD CHEM WORKERS GOGGS  
 Other Protective Equipment: ANSI APPROVED EYE WASH & DELUGE SHOWER (FP N).  
 Work Hygienic Practices: DO NOT TAKE INTERNALLY. AVOID CONTACT WITH SKIN OR EYES. UPON CONTACT WITH SKIN OR EYES, WASH OFF WITH WATER.  
 Supplemental Safety and Health: BP: DECOMPOSES ON HEATING. % VOLAT: 87.5-94.5. EFTS OF OVEREXP:INGEST:IRRIT &/OR BURNS CAN OCCUR TO ENTIRE GI TRACT INCL STOM & INTESTINES, CHARACT BY NAUS, VOMIT, DIARR, ABDOM PAIN, BLEEDING &/OR TISS ULCERATION. CHRONIC: INHAL:RPTD EXPOS MAY CAUSE LUNG FUNC IMPAIRMENT & PERM LUNG DMG. SKIN:EFTS SIMILAR TO

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 Physical/Chemical Properties  
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B.P. Text: SUPDAT  
 Spec Gravity: 1.08-1.26  
 PH: >11  
 Solubility in Water: MISCIBLE  
 Appearance and Odor: GREENISH-YELLOW LIQUID; CHLORINE-LIKE ODOR.  
 Percent Volatiles by Volume: SUPDAT

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 Reactivity Data  
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Stability Indicator: YES  
 Stability Condition To Avoid: DECOMPOSES AS IT IS HEATED. DECOMP WILL RSLT FROM CNTCT W/IRON/COPPER. AVOID HIGH HEAT, SUNLIGHT & ULTRA-VIOLET LIGHT.  
 Materials To Avoid: IRON, COPPER, ACIDS, AMMONIUM COMPOUNDS, ORGANICS, OTHER OXIDIZERS.  
 Hazardous Decomposition Products: CHLORINE GAS.  
 Hazardous Polymerization Indicator: NO  
 Conditions To Avoid Polymerization: NOT RELEVANT.

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 Toxicological Information  
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 Ecological Information  
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 MSDS Transport Information  
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 Regulatory Information  
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 Other Information  
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 HAZCOM Label  
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Product ID: SODIUM HYPOCHLORITE 7-15%  
 Cage: D0735  
 Assigned IND: Y  
 Company Name: VAN WATERS & ROGERS SUB OF UNIVAR  
 Street: 6100 CARILLON POINT  
 City: KIRKLAND WA  
 Zipcode: 98033  
 Health Emergency Phone: 800-424-9300 (CHEMTREC)  
 Label Required IND: Y  
 Date Of Label Review: 12/21/1995  
 Status Code: C  
 Label Date: 12/21/1995  
 Origination Code: G  
 Chronic Hazard IND: Y  
 Eye Protection IND: YES  
 Skin Protection IND: YES

Signal Word: DANGER

Respiratory Protection IND: YES

Health Hazard: Severe

Contact Hazard: Severe

Fire Hazard: None

Reactivity Hazard: None

Hazard And Precautions: CORROSIVE. ACUTE: HARMFUL IF INHALED/INGESTED. HARMFUL IF EXPOSED TO SKIN/EYES. INHALATION: MATERIAL IS IRRITATING TO NOSE, MOUTH, THROAT AND LUNGS. MAY ALSO CAUSE BURNS TO RESPIRATORY TRACT WITH PRODUCTION OF LUNG EDEMA WHICH CAN RESULT IN SHORTNESS OF BREATH, WHEEZING, CHOKING, CHEST PAIN AND LUNG FUNCTION IMPAIRMENT. INGESTION: IRRITATION AND BURNS TO GI TRACT, NAUSEA, VOMITING, DIARRHEA, PAIN AND BLEEDING. EYE: SEVERE IRRITATION OR BURNS, IMPAIRMENT OF VISION AND CORNEAL DAMAGE. SKIN: SEVERE IRRITATION AND/OR BURNS. CAN PERMANENTLY DAMAGE. CHRONIC: REPEATED INHALATION MAY CAUSE IMPAIRMENT OF LUNG FUNCTION AND PERMANENT LUNG DAMAGE.

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