

Russell City Energy Center

***Appendix 7-A
City of Hayward Will-Serve Letter***

May 2001

Russell City Energy Center AFC

May 2001



CITY OF
HAYWARD
HEART OF THE BAY

May 4, 2001

Mr. William I. Toman
Development Manager
Calpine/Bechtel Joint Development
6700 Koll Center Parkway, Suite 320
Pleasanton, California 94566

Subject: Water Service to the Proposed Russell City Energy Center

Dear Mr. Toman:

The purpose of this letter is to indicate the City of Hayward's ("City") willingness to serve and to describe the general terms upon which the City would provide water service to the proposed 600 Megawatt Russell City Energy Center (RCEC).

Potable water

- The City will provide potable water for use at the site for domestic needs and as required to meet fire service needs for the RCEC. This service is to be provided on the same terms as service is provided for similar uses throughout the City. We anticipate providing a two-inch service connection and meter to provide domestic service to the site and a ten-inch unmetered connection with leak detector to provide fire flow capabilities.

Process and Cooling Water

- The City is prepared to serve the RCEC with recycled water derived from the effluent of the City's Water Pollution Control Facility (WPCF) in accordance with the following terms and conditions:
 - Calpine will construct and transfer to the City an advanced wastewater treatment (AWT) plant to provide high-quality recycled water for use at the RCEC. The AWT will be designed to mutually acceptable standards to provide approximately 4,000 acre-feet per year of desalinated tertiary effluent to the RCEC at peak flows of up to 4.17 million gallons per day (MGD).

OFFICE OF THE CITY MANAGER

777 B STREET, HAYWARD, CA 94541-5007

TEL: 510/583-4300 • FAX: 510/583-3601 • TDD: 510/247-3340

Mr. William Toman
Calpine/Bechtel Joint Development
May 4, 2001

- The treatment process used to produce the recycled water for the RCEC will produce waste streams that will be further treated prior to discharge from the WPCF. Therefore, the total flow of secondary effluent that will be utilized to produce the recycled peak flow of 4.17 MGD would be approximately 5.73 MGD. The City has sufficient effluent available to ensure the availability of adequate supplies to meet these requirements.
- The City will require Calpine/Bechtel to pay all costs for the AWT, including but not limited to construction, operation and maintenance.
- The City will take necessary steps to secure rights and construct facilities to obtain secondary effluent from the East Bay Dischargers Authority discharge system as a back-up supply of secondary effluent to supply the AWT during periods when maintenance or other outages of the WPCF make the source of supply unavailable. Calpine/Bechtel will pay all costs for this backup connection, including but not limited to construction, operation and maintenance.

The City's willingness to provide this service is dependant upon compliance with the provisions of the California Environmental Quality Act. The detailed commercial terms for operation and maintenance of the AWT plant will be established by a detailed service contract, to be negotiated in the future, which will be subject to approval of the Hayward City Council.

If you have questions or require further information please call me at 510-583-4305.

Sincerely,


Jesús Armas
City Manager

Russell City Energy Center

***Appendix 7-B
MSDS Information***

May 2001

Russell City Energy Center AFC

May 2001



MATERIAL SAFETY DATA SHEET

PRODUCT

73202 COOLING WATER DISPERSANT

Emergency Telephone Number
Medical (800) 462-5378 (24 hours) (800) I-M-ALERT

SECTION 01 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: 73202 COOLING WATER DISPERSANT

DESCRIPTION: A modified polyacrylate

NFPA 704M/HMIS RATING: 1/1 HEALTH 1/1 FLAMMABILITY 0/0 REACTIVITY 0 OTHER
0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme

SECTION 02 COMPOSITION AND INFORMATION ON INGREDIENTS

Our hazard evaluation of the ingredient(s) under OSHA's Hazard Communication Rule, 29 CFR 1910.1200 has found none of the ingredient(s) hazardous.

SECTION 03 HAZARD IDENTIFICATION

EMERGENCY OVERVIEW:

CAUTION: May cause irritation to skin and eyes. Avoid contact with skin, eyes and clothing. Do not take internally.

Empty containers may contain residual product. Do not reuse container unless properly reconditioned.

PRIMARY ROUTE(S) OF EXPOSURE: Eye, Skin

EYE CONTACT: May cause irritation with prolonged contact.

SKIN CONTACT: May cause irritation with prolonged contact.

SYMPTOMS OF EXPOSURE: A review of available data does not identify any symptoms from exposure not previously mentioned.

AGGRAVATION OF EXISTING CONDITIONS: A review of available data does not identify any worsening of existing conditions.

SECTION 04 FIRST AID INFORMATION

EYES: Flush with water for 15 minutes. Call a physician.

SKIN: Flush with water for 15 minutes.

INGESTION: Do not induce vomiting. Give water. Call a physician.

INHALATION: Remove to fresh air. Treat symptoms. Call a physician.



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NOTE TO PHYSICIAN: Based on the individual reactions of the patient, the physician's judgment should be used to control symptoms and clinical condition.

CAUTION: If unconscious, having trouble breathing or in convulsions, do not induce vomiting or give water.

SECTION 05 FIRE FIGHTING MEASURES

FLASH POINT: None (PMCC) ASTM D-93

EXTINGUISHING MEDIA: This product would not be expected to burn unless all the water is boiled away. The remaining organics may be ignitable. Use water to cool containers exposed to fire.

UNUSUAL FIRE AND EXPLOSION HAZARD: May evolve NOx or SOx under fire conditions.

SECTION 06 ACCIDENTAL RELEASE MEASURES

IN CASE OF TRANSPORTATION ACCIDENTS, CALL THE FOLLOWING 24-HOUR TELEPHONE NUMBER (800) I-M-ALERT or (800) 462-5378.

SPILL CONTROL AND RECOVERY:

Small liquid spills: Contain with absorbent material, such as clay, soil or any commercially available absorbent. Shovel reclaimed liquid and absorbent into recovery or salvage drums for disposal. Refer to CERCLA in Section 15.

Large liquid spills: Dike to prevent further movement and reclaim into recovery or salvage drums or tank truck for disposal. Refer to CERCLA in Section 15.

SECTION 07 HANDLING AND STORAGE

Storage : Keep container closed when not in use.

SECTION 08 EXPOSURE CONTROLS AND PERSONAL PROTECTION



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RESPIRATORY PROTECTION: Respiratory protection is not normally needed. If significant mists or aerosols are generated, wear a NIOSH approved or equivalent respirator.

For large spills, entry into large tanks, vessels or enclosed small spaces with inadequate ventilation, a positive pressure, self-contained breathing apparatus is recommended.

VENTILATION: General ventilation is recommended.

PROTECTIVE EQUIPMENT: Wear impermeable gloves, boots, aprons or a slicker suit to avoid skin contact. Chemical goggles and face shield are also recommended. Examples of impermeable gloves available on the market are neoprene, nitrile, PVC, and natural rubber (compatibility studies have not been performed).

The availability of an eye wash fountain and safety shower is recommended.

If clothing is contaminated, remove clothing and thoroughly wash the affected area. Launder contaminated clothing before reuse.

SECTION 09 PHYSICAL AND CHEMICAL PROPERTIES

COLOR:	Clear to hazy, colorless to brown	
FORM:	Liquid	
SPECIFIC GRAVITY:	1.27 @ 71 Degrees F	ASTM D-1298
pH (NEAT) =	4.5-6.0	ASTM E-70
VISCOSITY:	570 cps @ 71 Degrees F	ASTM D-2983
FREEZE POINT:	13 Degrees F	ASTM D-1177
POUR POINT:	15 Degrees F	ASTM D-97
BOILING POINT:	212 Degrees F @ 760 mm Hg	ASTM D-86
FLASH POINT:	None (PMCC)	ASTM D-93

NOTE: These physical properties are typical values for this product.

SECTION 10 STABILITY AND REACTIVITY



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INCOMPATIBILITY: None known

THERMAL DECOMPOSITION PRODUCTS: In the event of combustion CO, CO₂, NO_x, SO_x may be formed. Do not breathe smoke or fumes. Wear suitable protective equipment.

SECTION 11 TOXICOLOGICAL INFORMATION

TOXICITY STUDIES: Toxicity studies have not been conducted on this product, but studies have been conducted on a similar product. The results are shown below.

ACUTE ORAL TOXICITY (ALBINO RATS): LD₅₀ = Greater than 5,000 mg/kg
Toxicity Rating: No appreciable toxicity

PRIMARY SKIN IRRITATION TEST (ALBINO RABBITS):
SKIN IRRITATION INDEX DRAIZE RATING: 0.0/8.0 Non-irritating

PRIMARY EYE IRRITATION TEST (ALBINO RABBITS):
EYE IRRITATION INDEX DRAIZE RATING: 4.7/110.0 Minimally irritating
COMMENTS: Slight conjunctivitis was apparent one hour.

SECTION 12 ECOLOGICAL INFORMATION

AQUATIC DATA:

Results below are based on a similar product.

96 hour static acute LC₅₀ to Bluegill Sunfish = Greater than 1,000 ppm

96 hour no observed effect concentration is 1000 ppm based on no mortality or abnormal effects.

TOXICITY RATING: No appreciable toxicity

96 hour static acute LC₅₀ to Rainbow Trout = Greater than 1,000 ppm

96 hour no observed effect concentration is 560 ppm based on no mortality or abnormal effects.



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TOXICITY RATING: No appreciable toxicity

OTHER STUDIES:

48 hour static acute LC50 to Daphnia Magna = Greater than 1,000 ppm

48 hour no observed effect concentration is 180 ppm based on no mortality or abnormal effects.

TOXICITY RATING: No appreciable toxicity

If released into the environment, see CERCLA in Section 15.

SECTION 13 DISPOSAL CONSIDERATIONS

DISPOSAL: If this product becomes a waste, it does not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261, since it does not have the characteristics of Subpart C, nor is it listed under Subpart D.

As a non-hazardous liquid waste, it should be solidified with stabilizing agents (such as sand, fly ash, or cement) so that no free liquid remains before disposal to an industrial waste landfill. A non-hazardous liquid waste can also be incinerated in accordance with local, state and federal regulations.

SECTION 14 TRANSPORTATION INFORMATION

PROPER SHIPPING NAME/HAZARD CLASS MAY VARY BY PACKAGING, PROPERTIES, AND MODE OF TRANSPORTATION. TYPICAL PROPER SHIPPING NAMES FOR THIS PRODUCT ARE:

ALL TRANSPORTATION MODES : PRODUCT IS NOT REGULATED DURING TRANSPORTATION

SECTION 15 REGULATORY INFORMATION

The following regulations apply to this product.

FEDERAL REGULATIONS:



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OSHA HAZARD COMMUNICATION RULE, 29 CFR 1910.1200:

Based on our hazard evaluation, none of the ingredients in this product are hazardous.

CERCLA/SUPERFUND, 40 CFR 117, 302:

Notification of spills of this product is not required.

SARA/SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986

(TITLE III) - SECTIONS 302, 311, 312 AND 313:

SECTION 302 - EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355):

This product does not contain ingredients listed in Appendix A and B as an Extremely Hazardous Substance.

SECTIONS 311 and 312 - MATERIAL SAFETY DATA SHEET REQUIREMENTS (40 CFR 370):

Our hazard evaluation has found that this product is not hazardous under 29 CFR 1910.1200.

Under SARA 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are: 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

SECTION 313 - LIST OF TOXIC CHEMICALS (40 CFR 372):

This product does not contain ingredients on the List of Toxic Chemicals.

TOXIC SUBSTANCES CONTROL ACT (TSCA):

The chemical ingredients in this product are on the 8 (b) Inventory List (40 CFR 710).

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA), 40 CFR 261 SUBPART C & D:

Consult Section 13 for RCRA classification.

FEDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACT, 40 CFR 401.15/

formerly Sec. 307, 40 CFR 116/formerly Sec. 311:

None of the ingredients are specifically listed.

CLEAN AIR ACT, Sec. 111 (40 CFR 60), Sec. 112 (40 CFR 61, 1990 Amendments),



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Sec. 611 (40 CFR 82, CLASS I and II Ozone depleting substances):
This product does not contain ingredients covered by the Clean Air Act.

STATE REGULATIONS:

CALIFORNIA PROPOSITION 65:
This product does not contain any chemicals which require warning under California Proposition 65.

MICHIGAN CRITICAL MATERIALS:
This product does not contain ingredients listed on the Michigan Critical Materials Register.

STATE RIGHT TO KNOW LAWS:
This product does not contain ingredients listed by State Right To Know Laws.

INTERNATIONAL REGULATIONS:

This is not a WHMIS controlled product under The House of Commons of Canada Bill C-70.

SECTION 16 OTHER INFORMATION

Nalco internal number F105466

SECTION 17 USER'S RESPONSIBILITY

Our Risk Characterization is being determined.

This product material safety data sheet provides health and safety information. The product is to be used in applications consistent with our product literature. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. For any other uses, exposures should be evaluated so that appropriate handling practices and training programs can be established to insure safe workplace operations. Please consult your local sales representative for any further information.

SECTION 18 REFERENCES



MATERIAL SAFETY DATA SHEET

PRODUCT

73202 COOLING WATER DISPERSANT

Emergency Telephone Number
Medical (800) 462-5378 (24 hours) (800) I-M-ALERT

Threshold Limit Values for Chemical Substances and Physical Agents and
Biological Exposure Indices, American Conference of Governmental
Industrial Hygienists, OH.

Hazardous Substances Data Bank, National Library of Medicine, Bethesda,
Maryland (CD-ROM version), Micromedex, Inc., Englewood, CO.

IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals
to Man, Geneva: World Health Organization, International Agency for
Research on Cancer.

Integrated Risk Information System, U.S. Environmental Protection Agency,
Washington, D.C. (CD-ROM version), Micromedex, Inc., Englewood, CO.

Annual Report on Carcinogens, National Toxicology Program, U.S. Department
of Health and Human Services, Public Health Service.

Title 29 Code of Federal Regulations, Part 1910, Subpart Z, Toxic and
Hazardous Substances, Occupational Safety and Health Administration (OSHA).

Registry of Toxic Effects of Chemical Substances, National Institute for
Occupational Safety and Health, Cincinnati, Ohio (CD-ROM version),
Micromedex, Inc., Englewood, CO.

Shepard's Catalog of Teratogenic Agents (CD-ROM version),
Micromedex, Inc., Englewood, CO.

Suspect Chemicals Sourcebook (a guide to industrial chemicals covered
under major regulatory and advisory programs), Roytech Publications
(a Division of Ariel Corporation), Bethesda, MD.

The Teratogen Information System, University of Washington, Seattle,
Washington (CD-ROM version), Micromedex, Inc., Englewood, CO.

PREPARED BY: William S. Utley, PhD., DABT, Manager, Product Safety
DATE CHANGED: 11/03/1998 DATE PRINTED: 03/28/1999



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PRODUCT

73202 COOLING WATER DISPERSANT

Emergency Telephone Number

Medical (800) 462-5378 (24 hours)

(800) I-M-ALERT



MATERIAL SAFETY DATA SHEET

PRODUCT

NALCO 73132

EMERGENCY TELEPHONE NUMBER

(800)462-5378 (24 Hours) (800) I-M-ALERT

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : **NALCO 73132**

APPLICATION : CORROSION INHIBITOR

CHEMICAL DESCRIPTION : Water, Phosphate

COMPANY IDENTIFICATION :
Nalco Chemical Company
One Nalco Center
Naperville, Illinois
60563-1198

EMERGENCY TELEPHONE NUMBER : (800)462-5378 (24 Hours) (800) I-M-ALERT

NFPA 704M/HMIS RATING
HEALTH : 0 / 1 FLAMMABILITY : 0 / 0 REACTIVITY : 0 / 0 OTHER :
0 = Insignificant 1 = Slight 2 = Moderate 3 = High 4 = Extreme

2. COMPOSITION/INFORMATION ON INGREDIENTS

Based on our hazard evaluation, none of the substances in this product are hazardous.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

CAUTION

May cause irritation with prolonged contact.
Do not get in eyes, on skin, on clothing. Do not take internally. Wear suitable protective clothing. Keep container tightly closed. Flush affected area with water.
May evolve oxides of phosphorus (PO_x) under fire conditions.

PRIMARY ROUTES OF EXPOSURE :

Eye, Skin

HUMAN HEALTH HAZARDS - ACUTE :

EYE CONTACT :

May cause irritation with prolonged contact.

SKIN CONTACT :

May cause irritation with prolonged contact.

INGESTION :

Not a likely route of exposure. No adverse effects expected.



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(800)462-5378 (24 Hours) (800) I-M-ALERT

INHALATION :

Not a likely route of exposure. No adverse effects expected.

SYMPTOMS OF EXPOSURE :

Acute :

A review of available data does not identify any symptoms from exposure not previously mentioned.

Chronic :

A review of available data does not identify any symptoms from exposure not previously mentioned.

AGGRAVATION OF EXISTING CONDITIONS :

A review of available data does not identify any worsening of existing conditions.

4. FIRST AID MEASURES

EYE CONTACT :

Flush affected area with water. If symptoms develop, seek medical advice.

SKIN CONTACT :

Flush affected area with water. If symptoms develop, seek medical advice.

INGESTION :

Do not induce vomiting without medical advice. If conscious, washout mouth and give water to drink. If symptoms develop, seek medical advice.

INHALATION :

Remove to fresh air, treat symptomatically. If symptoms develop, seek medical advice.

NOTE TO PHYSICIAN :

Based on the individual reactions of the patient, the physician's judgement should be used to control symptoms and clinical condition.

5. FIRE FIGHTING MEASURES

FLASH POINT : > 200 °F / > 93 °C (PMCC)

EXTINGUISHING MEDIA :

Not expected to burn. Use extinguishing media appropriate for surrounding fire.

FIRE AND EXPLOSION HAZARD :

May evolve oxides of phosphorus (POx) under fire conditions.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTING :

In case of fire, wear a full face positive-pressure self contained breathing apparatus and protective suit.



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6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS :

Do not touch spilled material. Restrict access to area as appropriate until clean-up operations are complete. Use personal protective equipment recommended in Section 8 (Exposure Controls/Personal Protection). Stop or reduce any leaks if it is safe to do so. Ventilate spill area if possible.

METHODS FOR CLEANING UP :

SMALL SPILLS: Soak up spill with absorbent material. Place residues in a suitable, covered, properly labeled container. Wash affected area. **LARGE SPILLS:** Contain liquid using absorbent material, by digging trenches or by dyking. Reclaim into recovery or salvage drums or tank truck for proper disposal. Contact an approved waste hauler for disposal of contaminated recovered material. Dispose of material in compliance with regulations indicated in Section 13 (Disposal Considerations).

ENVIRONMENTAL PRECAUTIONS :

Do not contaminate surface water.

7. HANDLING AND STORAGE

HANDLING :

Avoid eye and skin contact. Do not take internally. Ensure all containers are labelled. Keep the containers closed when not in use.

STORAGE CONDITIONS :

Store the containers tightly closed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS :

This product does not contain any substance that has an established exposure limit.

ENGINEERING MEASURES :

General ventilation is recommended.

RESPIRATORY PROTECTION :

Respiratory protection is not normally needed.

HAND PROTECTION :

Neoprene gloves, Nitrile gloves, Butyl gloves, PVC gloves

SKIN PROTECTION :

Wear standard protective clothing.

EYE PROTECTION :

Wear chemical splash goggles.



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(800)462-5378 (24 Hours) (800) I-M-ALERT

HYGIENE RECOMMENDATIONS :

Keep an eye wash fountain available. Keep a safety shower available. If clothing is contaminated, remove clothing and thoroughly wash the affected area. Launder contaminated clothing before reuse.

HUMAN EXPOSURE CHARACTERIZATION :

Based on our recommended product application and personal protective equipment, the potential human exposure is: Low

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Liquid
APPEARANCE	Clear Colorless
ODOR	
SPECIFIC GRAVITY	1.63 @ 70 °F / 21 °C
DENSITY	13.6 lb/gal
SOLUBILITY IN WATER	Complete
pH (100 %)	12.4
FREEZING POINT	< -50 °F /

10. STABILITY AND REACTIVITY

STABILITY :

Stable under normal conditions.

HAZARDOUS POLYMERIZATION :

Hazardous polymerization will not occur.

CONDITIONS TO AVOID :

Freezing temperatures

MATERIALS TO AVOID :

None known.

HAZARDOUS DECOMPOSITION PRODUCTS :

Under fire conditions: Oxides of phosphorus

11. TOXICOLOGICAL INFORMATION

No toxicity studies have been conducted on this product.

CARCINOGENICITY :

None of the substances in this product are listed as carcinogens by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP) or the American Conference of Governmental Industrial Hygienists (ACGIH).



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NALCO 73132

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(800)462-5378 (24 Hours) (800) I-M-ALERT

HUMAN HAZARD CHARACTERIZATION :

Based on our hazard characterization, the potential human hazard is: Low

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL EFFECTS :

No toxicity studies have been conducted on this product.

ENVIRONMENTAL HAZARD AND EXPOSURE CHARACTERIZATION

Based on our hazard characterization, the potential environmental hazard is: Low

Based on our recommended product application and the product's characteristics, the potential environmental exposure is: Moderate

If released into the environment, see CERCLA/SUPERFUND in Section 15.

13. DISPOSAL CONSIDERATIONS

If this product becomes a waste, the presence of the following substances may cause the product to be classified as a hazardous waste by the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Before disposal, it should be determined if the waste meets the criteria of a hazardous waste.

As a non-hazardous waste, it is not subject to federal regulation. Consult state or local regulation for any additional handling, treatment or disposal requirements. For disposal, contact a properly licensed waste treatment, storage, disposal or recycling facility.

14. TRANSPORT INFORMATION

Proper Shipping Name / Hazard Class may vary by packaging, properties, and mode of transportation. Typical Proper Shipping Names for this product are:

LAND TRANSPORT :

Proper Shipping Name :

PRODUCT IS NOT REGULATED DURING TRANSPORTATION

AIR TRANSPORT (ICAO/IATA) :

Proper Shipping Name :

PRODUCT IS NOT REGULATED DURING TRANSPORTATION

MARINE TRANSPORT (IMDG/IMO) :

IMDG Page :

Proper Shipping Name :

PRODUCT IS NOT REGULATED DURING TRANSPORTATION



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(800)462-5378 (24 Hours) (800) I-M-ALERT

15. REGULATORY INFORMATION

NATIONAL REGULATIONS, USA :

OSHA HAZARD COMMUNICATION RULE, 29 CFR 1910.1200 :

Based on our hazard evaluation, none of the substances in this product are hazardous.

CERCLA/SUPERFUND, 40 CFR 117, 302 :

Notification of spills of this product is not required.

SARA/SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (TITLE III) - SECTIONS 302, 311, 312, AND 313 :

SECTION 302 - EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355) :

This product does not contain substances listed in Appendix A and B as an Extremely Hazardous Substance.

SECTIONS 311 AND 312 - MATERIAL SAFETY DATA SHEET REQUIREMENTS (40 CFR 370) :

Our hazard evaluation has found that this product is not hazardous under 29 CFR 1910.1200.

Under SARA 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are: 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

SECTION 313 - LIST OF TOXIC CHEMICALS (40 CFR 372) :

This product does not contain substances on the List of Toxic Chemicals.

TOXIC SUBSTANCES CONTROL ACT (TSCA) :

The chemical substances in this product are on the TSCA 8(b) Inventory (40 CFR 710).

FEDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACT, 40 CFR 401.15 / formerly Sec. 307, 40 CFR / formerly Sec. 311 :

None of the substances are specifically listed in the regulation.

CLEAN AIR ACT, Sec. 111 (40 CFR 60, Volatile Organic Compounds), Sec. 112 (40 CFR 61, Hazardous Air Pollutants), Sec. 602 (40 CFR 82, Class I and II Ozone Depleting Substances) :

None of the substances are specifically listed in the regulation.

CALIFORNIA PROPOSITION 65 :

This product does not contain substances which require warning under California Proposition 65.

MICHIGAN CRITICAL MATERIALS :

None of the substances are specifically listed in the regulation.

STATE RIGHT TO KNOW LAWS :

None of the substances are specifically listed in the regulation.

NATIONAL REGULATIONS, CANADA :



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PRODUCT

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EMERGENCY TELEPHONE NUMBER

(800)462-5378 (24 Hours) (800) I-M-ALERT

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS) :

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS CLASSIFICATION :

Not considered a WHMIS controlled product.

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) :

All substances in this product are listed on the Domestic Substances List (DSL), are exempt, or have been reported in accordance with the New Substances Notification Regulations.

16. OTHER INFORMATION

Nalco F105525

Due to our commitment to Product Stewardship, we have evaluated the human and environmental hazards and exposures of this product. Based on our recommended use of this product, we have characterized the product's general risk. This information should provide assistance for your own risk management practices. We have evaluated our product's risk as follows:

* The human risk is: Low

* The environmental risk is: Low

Any use inconsistent with our recommendations may affect the risk characterization. Our sales representative will assist you to determine if your product application is consistent with our recommendations. Together we can implement an appropriate risk management process.

This product material safety data sheet provides health and safety information. The product is to be used in applications consistent with our product literature. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. For any other uses, exposures should be evaluated so that appropriate handling practices and training programs can be established to insure safe workplace operations. Please consult your local sales representative for any further information.

REFERENCES

Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices, American Conference of Governmental Industrial Hygienists, OH., (Ariel Insight™ CD-ROM Version), Ariel Research Corp., Bethesda, MD.

Hazardous Substances Data Bank, National Library of Medicine, Bethesda, Maryland (TOMES CPS™ CD-ROM Version), Micromedex, Inc., Englewood, Co.

IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man, Geneva: World Health Organization, International Agency for Research on Cancer.

Integrated Risk Information System, U.S. Environmental Protection Agency, Washington, D.C. (TOMES CPS™ CD-ROM Version), Micromedex, Inc., Englewood, CO.



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NALCO 73132

EMERGENCY TELEPHONE NUMBER

(800)462-5378 (24 Hours) (800) I-M-ALERT

Annual Report on Carcinogens, National Toxicology Program, U.S. Department of Health and Human Services, Public Health Service.

Title 29 Code of Federal Regulations, Part 1910, Subpart Z, Toxic and Hazardous Substances, Occupational Safety and Health Administration (OSHA), (Ariel Insight™ CD-ROM Version), Ariel Research Corp., Bethesda MD.

Registry of Toxic Effects of Chemical Substances, National Institute for Occupational Safety and Health, Cincinnati, OH, (TOMES CPS™ CD-ROM Version), Micromedex, Inc., Englewood, CO.

Ariel Insight™ (An integrated guide to industrial chemicals covered under major regulatory and advisory programs), North American Module, Western European Module, Chemical Inventories Module and the Generics Module (Ariel Insight™ CD-ROM Version), Ariel Research Corp., Bethesda, MD.

The Teratogen Information System, University of Washington, Seattle, WA (TOMES CPS™ CD-ROM Version), Micromedex, Inc., Englewood, CO

Prepared By : Product Safety Department

Date issued : 11/29/1999

Replaces : 12/22/1998

CHEMPAK INDUSTRIES -- SODIUM HYPOCHLORITE AQUEOUS SOLUTION 10%
MATERIAL SAFETY DATA SHEET
NSN: 681000F052486
Manufacturer's CAGE: OYS14
Part No. Indicator: A
Part Number/Trade Name: SODIUM HYPOCHLORITE AQUEOUS SOLUTION 10%

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General Information

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Company's Name: CHEMPAK INDUSTRIES INC
Company's Street: 4941 E 39TH AVE
Company's City: DENVER
Company's State: CO
Company's Country: US
Company's Zip Code: 80207-1089
Company's Emerg Ph #: 303-399-1240
Company's Info Ph #: 303-399-1240
Record No. For Safety Entry: 001
Tot Safety Entries This Stk#: 001
Status: SE
Date MSDS Prepared: 01APR92
Safety Data Review Date: 29JAN97
Preparer's Company: CHEMPAK INDUSTRIES INC
Preparer's St Or P. O. Box: 4941 E 39TH AVE
Preparer's City: DENVER
Preparer's State: CO
Preparer's Zip Code: 80207-1089
MSDS Serial Number: CDBRX

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Ingredients/Identity Information

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Proprietary: NO
Ingredient: SODIUM HYPOCHLORITE, HYPOCHLOROUS ACID SODIUM SALT
Ingredient Sequence Number: 01
Percent: 10-12
NIOSH (RTECS) Number: NH3486300
CAS Number: 7681-52-9

Proprietary: NO
Ingredient: SODIUM HYDROXIDE, CAUSTIC SODA, LYE *96-4*
Ingredient Sequence Number: 02
Percent: 1-2
NIOSH (RTECS) Number: WB4900000
CAS Number: 1310-73-2

OSHA PEL: 2 MG/CUM
ACGIH TLV: 2 MG/CUM CEILING
Other Recommended Limit: 2MG/M3 CEILING NIOSH

Proprietary: NO
Ingredient: WATER
Ingredient Sequence Number: 03
Percent: 86-89
NIOSH (RTECS) Number: ZC0110000
CAS Number: 7732-18-5

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Physical/Chemical Characteristics
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Appearance And Odor: CLEAR, PALE YELLOW/GREENISH LIQUID W/A CHLORINE ODOR
Boiling Point: 230F
Vapor Pressure (MM Hg/70 F): 17.5
Specific Gravity: 1.15
Solubility In Water: 100%/WT
pH: (SUPP)

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Fire and Explosion Hazard Data
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Extinguishing Media: WATER SPRAY, FOG, FOAM, DRY CHEMICAL, CO2/AGENTS
SUITABLE FOR MATERIALS IN SURROUNDING FIRE.
Special Fire Fighting Proc: USE WATER SPRAY TO COOL EXPOSED CONTAINERS/
DILUTE LIQUID & CONTROL VAPORS. USE SCBA & FULL PROTECTIVE EQUIPMENT. AVOID
RUNOFF, DON'T RELEASE TO SEWERS/WATERWAYS
Unusual Fire And Expl Hazrds: SODIUM HYPOCHLORITE SOLUTIONS DECOMPOSE W/
HEAT & CAUSE CONTAINERS TO RUPTURE/EXPLODE. VIGOROUS REACTION W/OR
GANIC
MATERIALS/OXIDIZING AGENTS, RESULTING IN FIRE.

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Reactivity Data
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Stability: YES
Cond To Avoid (Stability): HEAT, LIGHT
Materials To Avoid: STRONG OXIDIZER/CONTAMINATION BY METALS/INCOMP

ATIBL

W/AMMONIA/UREA/OXIDIZABLE MATERIALS/CHLORINE/LIBERATING ACIDS.(SUP
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Hazardous Decomp Products: THERMAL: SODIUM HYPOCHLORITE, SODIUM OX
IDE &

CHLORINE.

Hazardous Poly Occur: NO

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Health Hazard Data

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LD50-LC50 Mixture: ORAL LD50(RAT): 8910 MG/KG PENTAHYDRATE

Route Of Entry - Inhalation: YES

Route Of Entry - Skin: YES

Route Of Entry - Ingestion: YES

Health Haz Acute And Chronic: INHALATION: CORROSIVE, SEVERE RESPIR
ATORY

TRACT IRRITATION & PULMONARY EDEMA. SKIN: CORROSIVE, IRRITATION &
BURNS.

EYES: CORROSIVE, SEVERE IRRITATION & BURNS. INGESTION: INFLAMMATIO
N OF THE

MOUTH & DIGESTIVE SYSTEM, BURNS.

Carcinogenicity - NTP: NO

Carcinogenicity - IARC: NO

Carcinogenicity - OSHA: NO

Explanation Carcinogenicity: NONE

Signs/Symptoms Of Overexp: IRRITATION, BURNS, PAIN, INFLAMMATION,
PERFORATION OF THE ESOPHAGUS & STOMACH, VOMITING, CIRCULATORY COLL
APSE,

CONFUSION, DELIRIUM, COMA, ABDOMINAL DISTRESS.

Emergency/First Aid Proc: EYES: FLUSH W/A STREAM OF WATER FOR 15 M
INS.

WASH W/IN 1 MIN TO ACHIEVE MAXIMUM EFFECTIVENESS. SKIN: FLUSH W/CO
OL WATER

& CONTINUE FOR 15 MINS. INHALATION: REMOVE TO FRESH AIR. GIVE OXYG
EN BY

TRAINED PERSONNEL/GIVE MOUTH TO MOUTH RESUSCITATION. INGESTION: NE
VER GIVE

ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. DON'T INDUCE VOMITING.
IF

CONSCIOUS, GIVE LARGE AMOUNTS OF MILK, GELATIN/WATER. (SEE SUPP
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Precautions for Safe Handling and Use

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Steps If Matl Released/Spill: NOTIFY SAFETY PERSONNEL & USE ADEQUA

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VENTILATION. USE PROTECTION WHEN CLEANING. USE NONCOMBUSTIBLE ABSORBENT.

DON'T USE SAWDUST. LARGE: DIKE & CONTAIN. NEUTRALIZE W/REDUCING AGENTS.

DILUTE W/COPIOUS AMOUNTS OF WATER. DON'T FLUSH TO SEWERS/WATERWAYS
Neutralizing Agent: REDUCING AGENTS.

Waste Disposal Method: DISPOSE OF IAW/FEDERAL, STATE & LOCAL REGULATIONS.

CORROSIVE UN1791.

Precautions-Handling/Storing: DON'T STORE ADJACENT TO CHEMICALS THAT MAY

REACT IF SPILLAGE OCCURS. COMPLY W/DOT REGULATIONS WHEN SHIPPED. DON'T

REUSE CONTAINERS.

Other Precautions: IF CLOSED CONTAINERS BECOME HEATED, VENT TO RELIEVE

DECOMPOSITION PRODUCTS. DON'T MIX/CONTAMINATE W/AMMONIA, HYDROCARBONS,

ACIDS, ALCOHOLS/ETHERS. PRODUCT RESIDUES MAY REMAIN IN CONTAINERS.

OBSERVE

LABEL PRECAUTIONS; DISPOSE OF CONTAINER.

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Control Measures

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Respiratory Protection: NIOSH/MSHA APPROVED RESPIRATORS SHOULD BE USED

WHERE AIRBORNE CONTAMINATES MAY OCCUR. FOR EMERGENCY & NON-ROUTINE OPERATIONS WEAR SCBA. WARNING: AIR PURIFYING RESPIRATORS DON'T PROVIDE

PROTECTION IN OXYGEN DEFICIENT ATMOSPHERES.

Ventilation: GOOD GENERAL ROOM/LOCAL EXHAUST AT POINTS OF EMISSION

Protective Gloves: IMPERVIOUS/RUBBER/NEOPRENE/VINYL

Eye Protection: CHEMICAL SAFETY GOGGLES

Other Protective Equipment: W/FULL FACE SHIELD, IMPERVIOUS PROTECTIVE

CLOTHING, RUBBER SAFETY SHOES, EYEWASH & SAFETY/QUICK DRENCH SHOWERS.

Work Hygienic Practices: REMOVE/LAUNDER CONTAMINATED CLOTHING BEFORE

REUSE.

Suppl. Safety & Health Data: PH: 11.5-13. MATERIALS: OXYGEN/METALS /

NICKEL/COPPER/TIN/MANGANESE & IRON. FIRST AID: IF VOMITING OCCURS, KEEP

AIRWAY CLEAR & GIVE MORE MILK, GELATIN SOLUTION/WATER. AVOID VOMIT
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LAVAGE/ACIDIC ANTIDOTES.

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Transportation Data

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Disposal Data

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Label Data

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ASHLAND CHEMICAL IC & S DIV -- SULFURIC ACID 93% - SULFURIC ACID,
TECHNICAL
MATERIAL SAFETY DATA SHEET
NSN: 6810003687991
Manufacturer's CAGE: 5A188
Part No. Indicator: A
Part Number/Trade Name: SULFURIC ACID 93%

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General Information

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Item Name: SULFURIC ACID, TECHNICAL
Company's Name: ASHLAND CHEMICAL CO IC AND S DIV
Company's Street: 5200 BLAZER PKY
Company's City: DUBLIN
Company's State: OH
Company's Country: US
Company's Zip Code: 43017
Company's Emerg Ph #: 614-889-3844
Company's Info Ph #: 614-889-3844
Record No. For Safety Entry: 002
Tot Safety Entries This Stk#: 003
Status: SE
Date MSDS Prepared: 05JAN95
Safety Data Review Date: 10OCT96
Supply Item Manager: CX
MSDS Preparer's Name: UNKNOWN
MSDS Serial Number: CBRZC
Specification Number: 0-S-809
Spec Type, Grade, Class: TYPE I CLASS 2
Hazard Characteristic Code: C1
Unit Of Issue: DR
Unit Of Issue Container Qty: 15 GALLONS
Type Of Container: 6HA1 DRUM
Net Unit Weight: 229.6 LBS

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Ingredients/Identity Information

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Proprietary: NO
Ingredient: SULFURIC ACID (SARA 302/313) (CERCLA)
Ingredient Sequence Number: 01
Percent: 93
NIOSH (RTECS) Number: WS5600000
CAS Number: 7664-93-9
OSHA PEL: 1 MG/M3

ACGIH TLV: 1 MG/M3/3 STEL; 9596
Other Recommended Limit: NONE RECOMMENDED

Proprietary: NO
Ingredient: WATER
Ingredient Sequence Number: 02
Percent: 4.8-9
NIOSH (RTECS) Number: ZC0110000
CAS Number: 7732-18-5
OSHA PEL: NOT ESTABLISHED
ACGIH TLV: NOT ESTABLISHED
Other Recommended Limit: NONE RECOMMENDED

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Physical/Chemical Characteristics
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Appearance And Odor: CLEAR & SYRUPY LIQUID.
Boiling Point: 212F,100C
Melting Point: UNKNOWN
Vapor Pressure (MM Hg/70 F): 17.5
Vapor Density (Air=1): UNKNOWN
Specific Gravity: 1.837
Decomposition Temperature: UNKNOWN
Evaporation Rate And Ref: <1 (ETHYL ETHER=1)
Solubility In Water: COMPLETE
Percent Volatiles By Volume: 5-10
Viscosity: UNKNOWN
Corrosion Rate (IPY): UNKNOWN

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Fire and Explosion Hazard Data
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Flash Point: NOT APPLICABLE
Extinguishing Media: DRY CHEMICAL.
Special Fire Fighting Proc: WEAR SELF-CONTAINED BREATHING APPARATUS AND
FULL FIRE FIGHTER'S PROTECTIVE GEAR/CHEMICAL PROTECTIVE GEAR. USE
WATER TO
COOL FIRE EXPOSED CONTAINERS.
Unusual Fire And Expl Hazrds: NEVER USE WELDING OR CUTTING TORCH ON OR
NEAR DRUM (EVEN EMPTY) BECAUSE PRODUCT (EVEN RESIDUE) CAN IGNITE
EXPLOSIVELY.

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Reactivity Data

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Stability: YES
Cond To Avoid (Stability): NONE SPECIFIED BY MANUFACTURER.
Materials To Avoid: STRONG ALKALIS, METALS (RELEASES FLAMMABLE/EXP
LOSIVE
HYDROGEN GAS).
Hazardous Decomp Products: ACID VAPORS.
Hazardous Poly Occur: NO
Conditions To Avoid (Poly): PRODUCT WILL NOT UNDERGO HAZARDOUS
POLYMERIZATION.
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Health Hazard Data
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LD50-LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.
Route Of Entry - Inhalation: YES
Route Of Entry - Skin: YES
Route Of Entry - Ingestion: NO
Health Haz Acute And Chronic: INHALATION OF VAPOR/MIST MAY CAUSE S
EVERE
IRRITATION & BURNS TO NOSE, THROAT & RESPIRATORY TRACT. INGESTION MA
Y BE
FATAL OR HARMFUL; CAUSES SEVERE STOMACH & INTESTINAL IRRITATION. EXP
OSURE MAY
CAUSE IRREVERSIBLE DAMAGE TO SKIN & EYES. PROLONGED EXPOSURE TO STR
ONG-
INORGANIC MISTS OF SULFURIC ACID MAY CAUSE CANCER.
Carcinogenicity - NTP: NO
Carcinogenicity - IARC: YES
Carcinogenicity - OSHA: NO
Explanation Carcinogenicity: IARC LISTS STRONG-INORGANIC-ACID MIS
TS
CONTAINING SULFURIC ACID AS A SUSPECTED (2A) CARCINOGEN.
Signs/Symptoms Of Overexp: INHALED-SEVERE IRRITATION & BURNS TO NO
SE,
THROAT, RESPIRATORY TRACT. EYES-STINGING, TEARING, REDNESS, SWELLING, CO
RNEAL
DAMAGE, BLINDNESS. SKIN-REDNESS, SWELLING, BURNS, SEVERE SKIN DAMAGE. IN
GESTED-
NAUSEA, VOMITING, DIARRHEA, ABDOMINAL PAIN, VOMITING OF BLOOD, BURNS/TI
SSUE
DESTRUCTION IN MOUTH/THROAT/DIGESTIVE TRACT, LOW BLOOD PRESSURE
Med Cond Aggravated By Exp: NONE SPECIFIED BY MANUFACTURER.
Emergency/First Aid Proc: EYES-IMMEDIATELY FLUSH WITH WATER FOR 15
MINUTES, HOLD LIDS APART. SEEK MEDICAL ATTN. SKIN-REMOVE CONTAMINA
TED

CLOTHES. FLUSH WITH LOTS OF WATER. SEEK MEDICAL ATTN. INHALED-REMOVE TO FRESH AIR. ADMINISTER OXYGEN OR ARTIFICIAL RESPIRATION AS NEEDED. SEEK MEDICAL ATTN. INGESTED-DO NOT INDUCE VOMITING! SEEK IMMEDIATE MEDICAL ATTN. IF CONSCIOUS, RINSE MOUTH & GIVE WATER OR MILK TO DRINK.

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Precautions for Safe Handling and Use
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Steps If Matl Released/Spill: COVER WITH SODIUM BICARBONATE OR SODA ASH/FLAKED LIME MIXTURE (50-50). MIX AND ADD WATER IF NEEDED. SCOOP UP SLURRY AND WASH SITE WITH SODA ASH SOLUTION. PROPER MIXING PROCEDURES ARE ESSENTIAL. ONLY TRAINED PERSONNEL SHOULD PERFORM THIS TASK. Neutralizing Agent: SODIUM BICARBONATE OR SODA ASH/FLAKED LIME MIXTURE. Waste Disposal Method: DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL ENVIRONMENTAL REGULATIONS. Precautions-Handling/Storing: STORE IN A COOL, DRY PLACE AWAY FROM INCOMPATIBLE MATERIALS. Other Precautions: CONTAINERS OF THIS PRODUCT MAY BE HAZARDOUS WHEN EMPTIED. SINCE EMPTYS MAY CONTAIN RESIDUE, ALL HAZARD PRECAUTIONS MUST BE OBSERVED. ADDITION OF WATER RELEASES HEAT WHICH CAN CAUSE VIOLENT BOILING & SPUTTERING. ADD SLOWLY & IN SMALL AMOUNTS

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Control Measures
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Respiratory Protection: IF ENGINEERING CONTROLS FAIL OR NON-ROUTINE USE OR AN EMERGENCY OCCURS; WEAR AN MSHA/NIOSH APPROVED RESPIRATOR WITH A CID MIST CARTRIDGE OR AN AIR-SUPPLIED RESPIRATOR OR SCBA, AS REQUIRED. USE IAW 29 CFR 1910.134. Ventilation: USE ADEQUATE MECHANICAL VENTILATION OR LOCAL EXHAUST TO MAINTAIN EXPOSURE BELOW TLV(S). Protective Gloves: NEOPRENE, PVC.

Eye Protection: SAFETY GLASSES/CHEMICAL SPLASH GOGGLES.
Other Protective Equipment: NONE SPECIFIED BY MANUFACTURER. DLA-HM
IS: EYE
WASH STATION & SAFETY SHOWER AVAILABLE.
Work Hygienic Practices: WASH HANDS AFTER HANDLING AND BEFORE EATING,
DRINKING, OR SMOKING. LAUNDER CONTAMINATED CLOTHES BEFORE REUSE.
Suppl. Safety & Health Data: MSDS PRESENTED BY CAGE 5A188 FOR CONTACT
NUMBER SP0450-96-ML905.

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Transportation Data
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Trans Data Review Date: 96284
DOT PSN Code: NUC
DOT Proper Shipping Name: SULFURIC ACID
DOT Class: 8
DOT ID Number: UN1830
DOT Pack Group: II
DOT Label: CORROSIVE
IMO PSN Code: OFJ
IMO Proper Shipping Name: SULPHURIC ACID
IMO Regulations Page Number: 8230
IMO UN Number: 1830
IMO UN Class: 8
IMO Subsidiary Risk Label: -
IATA PSN Code: XIX
IATA UN ID Number: 1830
IATA Proper Shipping Name: SULPHURIC ACID
IATA UN Class: 8
IATA Label: CORROSIVE
AFI PSN Code: XIX
AFI Prop. Shipping Name: SULPHURIC ACID
AFI Class: 8
AFI ID Number: UN1830
AFI Pack Group: II
AFI Special Prov: A3,A7,N34
AFI Basic Pac Ref: A12.3
Additional Trans Data: PER SAMMS CTFD: CONTAINER SHALL CONFORM TO
A UN
CERTIFIED 6HA1 COMPOSITE PACKAGE. PLASTIC RECEPTICLE WITH OUTER SHELL
STEEL
DRUM. MARK IAW ALL UN REQUIREMENTS. DRUM CERTIFICATION SHALL BE EMBOSSED.

Disposal Data

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Label Data

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Label Required: YES
Technical Review Date: 10OCT96
Label Status: F
Common Name: SULFURIC ACID 93%
Signal Word: DANGER!
Acute Health Hazard-Moderate: X
Contact Hazard-Severe: X
Fire Hazard-None: X
Reactivity Hazard-Slight: X
Special Hazard Precautions: CORROSIVE! INHALATION OF VAPOR/MIST MAY CAUSE SEVERE IRRITATION/BURNS TO NOSE/THROAT/RESPIRATORY TRACT. INGESTION MAY BE FATAL/HARMFUL; CAUSES SEVERE STOMACH IRRITATION. MAY CAUSE DAMAGE TO SKIN & EYES. PROLONGED EXPOSURE MISTS OF SULFURIC ACID MAY CAUSE CANCER. TARGET ORGANS: SKIN, EYES, LUNGS. 1ST AID: EYES-FLUSH WITH WATER FOR 15 MINUTES, HOLD EYES APART. SEEK MEDICAL ATTENTION. SKIN-REMOVE CONTAMINATED CLOTHES. FLUSH WITH LOTS OF WATER. SEEK MEDICAL ATTENTION. INHALED-REMOVE TO FRESH AIR. GIVE OXYGEN OR ARTIFICIAL RESPIRATION AS NEEDED. SEEK MEDICAL ATTENTION. INGESTED-DO NOT INDUCE VOMITING! SEEK IMMEDIATE MEDICAL ATTENTION. IF CONSCIOUS, RINSE MOUTH & GIVE WATER OR MILK TO DRINK
Protect Eye: Y
Protect Skin: Y
Protect Respiratory: Y
Label Name: ASHLAND CHEMICAL CO IC AND S DIV
Label Street: 5200 BLAZER PKY
Label City: DUBLIN
Label State: OH
Label Zip Code: 43017
Label Country: US
Label Emergency Number: 614-889-3844
Year Procured: 1996