

**PRODUCT** 

Nalco ACT® 52211

EMERGENCY TELEPHONE NUMBER
(800) 424-9300 (24 Hours) CHEMTREC

# 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Naico ACT® 52211

APPLICATION ADVANCED CONDENSATE TREATMENT

COMPANY IDENTIFICATION ONDEO Naico Company

ONDEO Nalco Center Naperville. Illinois

60563-1198

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NFPA 704M/HMIS RATING

HEALTH: 0/1 FLAMMABILITY: 1/1 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. Protect product from freezing.

May evolve oxides of carbon (COx) 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.

**INHALATION:** 

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



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### 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 / > 93.3 °C ( PMCC )

### **EXTINGUISHING MEDIA:**

This product would not be expected to burn unless all the water is boiled away. The remaining organics may be ignitable. Use extinguishing media appropriate for surrounding fire.

### FIRE AND EXPLOSION HAZARD:

May evolve oxides of carbon (COx) 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:**

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

### 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 diking. 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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### **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** 

Milky

**ODOR** 

Slight

SPECIFIC GRAVITY

1.005

DENSITY

8.37 lb/gal

**SOLUBILITY IN WATER** 

Dispersible

pH (100 %)

6.5

**FREEZING POINT** 

32 °F / 0 °C

**BOILING POINT** 

> 212 °F / > 100 °C

**VOC CONTENT** 

0.00 %

# 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 carbon

# 11. TOXICOLOGICAL INFORMATION

No toxicity studies have been conducted on this product.

**SENSITIZATION:** 

This product is not expected to be a sensitizer.



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### **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).

### **HUMAN HAZARD CHARACTERIZATION:**

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

# 12. ECOLOGICAL INFORMATION

### **ECOTOXICOLOGICAL EFFECTS**

The following results are for the product.

### ACUTE FISH RESULTS

Species	Exposure	LC50	Tested Substance	
Sheepshead Minnow	96 hrs	> 1,000 mg/l	Product	
Rainbow Trout	96 hrs	450 mg/l	Product	

Rating: Essentially non-toxic

### **ACUTE INVERTEBRATE RESULTS**

Species	Exposure	LC50	EC50	Tested Substance	
	48 hrs	> 1,000 mg/l		Product	
	48 hrs	> 1,000 mg/l		Product	

Essentially non-toxic

#### PERSISTENCY AND DEGRADATION

Biological Oxygen Demand (BOD):

Biological Cxygen Bernana (BOD).					
Incubation Period	Value	Tested Substance			
	210,000 mg/l	Product			

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## **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: Low

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

# 13. DISPOSAL CONSIDERATIONS

If this product becomes a waste, it is not a hazardous waste as defined by 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 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.



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## 14. TRANSPORT INFORMATION

The information in this section is for reference only and should not take the place of a shipping paper (bill of lading) specific to an order. Please note that the 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)

Proper Shipping Name PRODUCT IS NOT REGULATED DURING

**TRANSPORTATION** 

# 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.



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### **TOXIC SUBSTANCES CONTROL ACT (TSCA):**

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

## FOOD AND DRUG ADMINISTRATION (FDA) Federal Food, Drug and Cosmetic Act:

When use situations necessitate compliance with FDA regulations, this product is acceptable under: 21 CFR 173.310 Boiler Water Additives

The following limitations apply:

Maximum dosage Limitation 600 PPM in the steam.

### **NSF INTERNATIONAL:**

This product is acceptable for use in meat, poultry, and other food processing areas as a Boiler Treatment Product (G6), for treating boiler and steam lines where the steam produced may contact edible products. Acceptable usage shall be in accordance with the dosage limitations specified on the product label. NSF Registration number for this product is 119471.

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:

The following substances are disclosed for compliance with State Right to Know Laws:

Water 7732-18-5
Sorbitan Monostearate 1338-41-6
Ethoxylated Sorbitan Monostearate 9005-67-8
Ethoxylated Sorbitan Monolaurate 9005-64-5

## NATIONAL REGULATIONS, CANADA

## 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.



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## **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.

#### INTERNATIONAL CHEMICAL CONTROL LAWS

### **AUSTRALIA**

All substances in this product comply with the National Industrial Chemicals Notification & Assessment Scheme (NICNAS) and are listed on the Australian Inventory of Chemical Substances (AICS).

#### **EUROPE**

All substances in this product comply with the notification requirements of the European Commission Directive 67/548/EEC and amendments and are listed on the European Inventory of Existing Commercial Substances (EINECS).

## **JAPAN**

All substances in this product comply with the Law Regulating the Manufacture and Importation Of Chemical Substances and are listed on the Ministry of International Trade & industry List (MITI).

## **KOREA**

All substances in this product comply with the Toxic Chemical Control Law (TCCL) and are listed on the Existing Chemicals List (ECL)

## THE PHILIPPINES

All substances in this product comply with the Republic Act 6969 (RA 6969) and are listed on the Philippine Inventory of Chemicals & Chemical Substances (PICCS).

## 16. OTHER INFORMATION

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**



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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.

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

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