

PRODUCT

## CORE SHELL® 71301

**EMERGENCY TELEPHONE NUMBER(S)** 

(800) 424-9300 (24 Hours) CHEMTREC

# CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:

CORE SHELL® 71301

APPLICATION:

FLOCCULANT .

COMPANY IDENTIFICATION:

Nalco Company 1601 W. Diehl Road Naperville, Illinois 60563-1198

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NFPA 704M/HMIS RATING

HEALTH: 1/1 FLAMMABILITY:

1/1 INSTABILITY:

I/A OTHER

0 = Insignificant 1 = Slight 2 = Moderate 3 = High 4 = Extreme \*= Chronic Health Hazard

# 2. COMPOSITION/INFORMATION ON INGREDIENTS

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

## 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. Use with adequate ventilation. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Use a mild soap if available. Wear suitable protective clothing. Protect product from freezing. Water in contact with the product will cause slippery floor conditions. Keep the containers closed when not in use,

Wear suitable protective clothing, gloves and eye/face protection.

May evolve oxides of carbon (COx) under fire conditions. May evolve oxides of nitrogen (NOx) under fire conditions. May evolve HCl under fire conditions. Water in contact with the product will cause slippery floor conditions. Phase separation of the product may occur after prolonged storage. The top phase will be combustible hydrocarbon solvent.

PRIMARY ROUTES OF EXPOSURE:

Eye, Skin

**HUMAN HEALTH HAZARDS - ACUTE:** 

**EYE CONTACT:** 

May cause irritation with prolonged contact.



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#### SKIN CONTACT:

Frequent or prolonged contact with product may defat and dry the skin, leading to discomfort and dematitis.

#### INGESTION:

Not a likely route of exposure. If swallowed a jelly mass may form which in digestion may cause blockage.

#### INHALATION:

Not a likely route of exposure. Repeated or prolonged exposure may irritate the respiratory tract.

### AGGRAVATION OF EXISTING CONDITIONS:

Skin contact may aggravate an existing dermatitis condition.

### **HUMAN HEALTH HAZARDS - CHRONIC:**

No adverse effects expected other than those mentioned above.

## 4. FIRST AID MEASURES

#### EYE CONTACT:

Wipe or blot away excess material with clean cloth or paper towel, Wash affected areas thoroughly with water. If symptoms develop, seek medical advice.

## SKIN CONTACT:

Wipe or blot away excess material with clean cloth or paper towel. Wash affected areas thoroughly with water. If symptoms develop, seek medical advice.

## INGESTION:

Do not induce vomiting without medical advice. Get medical attention.

#### 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. If swallowed a jelly mass may form which in digestion may cause blockage.

## . FIRE FIGHTING MEASURES

FLASH POINT:

> 200 °F / > 93,3 °C

### **EXTINGUISHING MEDIA:**

Foam, Carbon dioxide, Dry powder, Other extinguishing agent suitable for Class B fires, For large fires, use water spray or fog, thoroughly drenching the burning material.

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.



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#### **UNSUITABLE EXTINGUISHING MEDIA:**

Do not use water unless flooding amounts are available.

#### FIRE AND EXPLOSION HAZARD:

May evolve oxides of carbon (COx) under fire conditions. May evolve oxides of nitrogen (NOx) under fire conditions. May evolve HCI under fire conditions. Water in contact with the product will cause slippery floor conditions. Phase separation of the product may occur after prolonged storage. The top phase will be combustible hydrocarbon solvent.

#### SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTING:

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

## 6. ACCIDENTAL RELEASE MEASURES

#### PERSONAL PRECAUTIONS:

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. Keep people away from and upwind of spill/leak. Ventilate spill area if possible. Ensure clean-up is conducted by trained personnel only. Do not touch spilled material. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Spill may be slippery.

### 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. Water in contact with the product will create a voluminous, slippery gel. Soak up as thoroughly as possible with inert absorbent material or sawdust. Do NOT hose down area until all possible traces of polymer are removed. Water in contact with the product will cause slippery floor conditions. Clean contaminated surfaces with water or aqueous cleaning agents. Contact an approved waste hauler for disposal of contaminated recovered material. Dispose of material in compliance with regulations indicated in Section 13 (Disposal Considerations). Soak up as thoroughly as possible with inert absorbent material or sawdust, as the addition of water causes slippery floor conditions.

## 7. HANDLING AND STORAGE

#### HANDLING:

Do not get in eyes, on skin, on clothing. Do not take internally. Use with adequate ventilation. Do not breathe vapors/gases/dust. Keep the containers closed when not in use. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Ensure all containers are labeled. Stir well prior to use.

### STORAGE CONDITIONS:

Store in suitable labeled containers. Store the containers tightly closed. Freezing will affect the physical condition but will not change the material. Thaw and mix before using. Store separately from exidizers. Store in a cool well ventilated area away from direct sunlight.

## SUITABLE CONSTRUCTION MATERIAL:

Compatibility with Plastic Materials can vary; we therefore recommend that compatibility is tested prior to use.



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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### **OCCUPATIONAL EXPOSURE LIMITS:**

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

#### **ENGINEERING MEASURES:**

The use of local exhaust ventilation is recommended to control emissions near the source. Laboratory samples should be handled in a fumehood. Provide mechanical ventilation of confined spaces.

#### RESPIRATORY PROTECTION:

Where concentrations in air may exceed the limits given in this section or when significant mists, vapors, aerosols, or dusts are generated, an approved air purifying respirator equipped with suitable filter cartridges is recommended. Consult the respirator / cartridge manufacturer data to verify the suitability of specific devices. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

#### HAND PROTECTION:

When handling this product, the use of chemical gloves is recommended. The choice of work glove depends on work conditions and what chemicals are handled. Please contact the PPE manufacturer for advice on what type of glove material may be suitable. Gloves should be replaced immediately if signs of degradation are observed.

#### SKIN PROTECTION:

Wear standard protective clothing.

#### **EYE PROTECTION:**

Wear safety glasses with side-shields.

### **HYGIENE RECOMMENDATIONS:**

Use good work and personal hygiene practices to avoid exposure. 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. Always wash thoroughly after handling chemicals. When handling this product never eat, drink or smoke.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE

**Emulsion** 

**APPEARANCE** 

Opaque Off-white Light brown

ODOR

Hydrocarbon

SPECIFIC GRAVITY

0.958 - 1.139 @ 77 °F / 25 °C

SOLUBILITY IN WATER

Dispersible



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pH (100 %) VISCOSITY

VOC CONTENT

3.5 - 6

300 - 1,500 cps @ 77 °F / 25 °C

26.5 % Calculated

Note: These physical properties are typical values for this product and are subject to change.

## 10. STABILITY AND REACTIVITY

#### STABILITY:

Stable under normal conditions.

## **HAZARDOUS POLYMERIZATION:**

Hazardous polymerization will not occur.

### CONDITIONS TO AVOID:

Freezing temperatures. Avoid temperatures below 0 and above 93 degrees C which will cause polymer to precipitate.

### MATERIALS TO AVOID:

Addition of water results in gelling. Contact with strong oxidizers (e.g. chlorine, peroxides, chromates, nitric acid, perchlorate, concentrated oxygen, permanganate) may generate heat, fires, explosions and/or toxic vapors.

### HAZARDOUS DECOMPOSITION PRODUCTS:

Under fire conditions:

Oxides of carbon, Oxides of nitrogen, HCI

## 11. TOXICOLOGICAL INFORMATION

No toxicity studies have been conducted on this product.

#### SENSITIZATION:

This product is not expected to be a sensitizer.

### 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: Moderate

## 12. ECOLOGICAL INFORMATION

## **ECOTOXICOLOGICAL EFFECTS:**

The following results are for the product, unless otherwise indicated. The tests for (products or similar products) were performed in clean water as set forth by USEPA (EPA/600/4-90/027). In order to evaluate the potential toxicity mitigation, the tests for (representative polymers) were performed in environmentally relevant water with dissolved



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organic carbon (DOC: 4.5 mg/l). The toxicity of this product is due to an external mode of action, e.g., suffocation or immobilization. In the presence of suspended material, e.g., DOC, the polymers are bound to suspended material and the bioavailability is substantially reduced. As a result, the toxicity is expected to be lower. Under normal use and discharge conditions, the LC50 values of the representative polymers tested in the presence of DOC are expected to apply to this product. However, for large spills, the clean water data is more applicable.

### Acute Fish Results:

Species	Exposure	Test Type	Value	Test Descriptor
Inland Silverside	96 hrs	LC50	> 1,000 mg/l	1% Aqueous Solution of Product
Inland Silverside	96.hrs	LC50	82.31 mg/l	Product tested in clean water
Rainbow Trout	96 hrs	LC50	0.31 mg/l	Product tested in clean water
Rainbow Trout	. 96 h	LC50	33.0 mg/l	Tested with 20 mg/L Humic Acid

## **ACUTE INVERTEBRATE RESULTS:**

Species	Exposure	Test Type	Value	Test Descriptor
Mysid Shrimp (Mysidopsis bahia)	96 hrs	LC50	57 ing/l	1% Aqueous Solution of Product
Mysid Shrimp (Mysidopsis bahia)	96 hrs	LC50	2.99 mg/l	Product tested in clean water
Mysid Shrimp (Mysidopsis bahia)	96 hrs	EC50	49 mg/l	1% Aqueous Solution of Product
Daphnia magna	48 hrs	EC50	2.4 mg/l	Product tested in clean water
Daphnia magna	. 48 h	EC50	4.8 mg/l	Tested with 20 mg/L Humic Acid

### CHRONIC FISH RESULTS:

Species ·	Exposure	Test Type	Value .	End Point	Test Descriptor .
Fathead Minnow	7 Days	EC25 / IC25	1.92 mg/l	Growth	Product
Fathead Minnow	7 Days	LOEC	2.5 mg/l	Growth	Product
Fathead Minnow	7 Days	NOEC	1.25 mg/l	Growth	Product

### Chronic Invertebrate Results:

Species	Exposure	Test Type	Value	End Point	Test Descriptor
Ceriodaphnia dubia	7 Days	LOEC	0.2 mg/l	Reproduction	Product
Ceriodaphnia dubia	7 Days .	EC25 / IC25	0.134 mg/l	Reproduction	Product
Ceriodaphnia dubia	7 Days	NOEC	0.1 mg/l	Reproduction	Product

### PERSISTENCY AND DEGRADATION:

Total Organic Carbon (TOC): 340,000 mg/l

Chemical Oxygen Demand (COD): 1,30

1,300,000 mg/l-

## Biological Oxygen Demand (BOD):

Incubation Period	Value	Test Descriptor
5 d	500,000 mg/l	Product



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The organic portion of this preparation is expected to be inherently biodegradable.

#### MOBILITY:

The environmental fate was estimated using a level III fugacity model embedded in the EPI (estimation program interface) Suite TM, provided by the US EPA. The model assumes a steady state condition between the total input and output. The level III model does not require equilibrium between the defined media. The information provided is intended to give the user a general estimate of the environmental fate of this product under the defined conditions of the models.

If released into the environment this material is expected to distribute to the air, water and soil/sediment in the approximate respective percentages;

Air -	Water	Soil/Sediment
<5%	10 - 30%	70 - 90%

The product is eliminated via abiotic process (adsorption on activated sludge) to a large amount from the aqueous phase.

#### BIOACCUMULATION POTENTIAL

Component substances have a potential to bioaccumulate.

## ENVIRONMENTAL HAZARD AND EXPOSURE CHARACTERIZATION

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

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.

### .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 as follows.

### LAND TRANSPORT:

Proper Shipping Name:

PRODUCT IS NOT REGULATED DURING TRANSPORTATION



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AIR TRANSPORT (ICAO/IATA):

Proper Shipping Name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S:

Technical Name(s):

Acrylamide Modified Polymer

UN/ID No:

UN 3082

Hazard Class - Primary:

9

Packing Group:

111

MARINE TRANSPORT (IMDG/IMO):

Proper Shipping Name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

Technical Name(s):

Acrylamide Modified Polymer

UN 3082

UN/ID No:

^

Hazard Class - Primary:

Packing Group:

ĬII

\*Marine Pollutant:

Acrylamide Modified Polymer

\*Note: This product is regulated as a Marine Pollutant when shipped by Rail, Highway (In bulk quantities), or Air (if no other hazard class applies), and when shipped by water in all quantities.

## 15. REGULATORY INFORMATION

This section contains additional information that may have relevance to regulatory compliance. The information in this section is for reference only. It is not exhaustive, and should not be relied upon to take the place of an individualized compliance or hazard assessment. Nalco accepts no liability for the use of this information.

## NATIONAL REGULATIONS, USA:

### OSHA HAZARD COMMUNICATION RULE, 29 CFR 1910.1200:

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

### CERCLA/SUPERFUND, 40 CFR 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.



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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 substances in this preparation are included on or exempted from the TSCA 8(b). Inventory (40 CFR 710)

NSF NON-FOOD COMPOUNDS REGISTRATION PROGRAM (former USDA List of Proprietary Substances & Non-Food Compounds):

NSF Registration number for this product is: 141518

This product is acceptable for use in sewage and/or drain lines (L1) in and around food processing areas.

FEDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACT, 40 CFR 401.15 / formerly Sec. 307, 40 CFR 116.4 / formerly Sec. 311 :

This product may contain trace levels (<0.1% for carcinogens, <1% all other substances) of the following substance(s) listed under the regulation. Additional components may be unintentionally present at trace levels.

Substance(s)	Citations
Adipic Acid	Sec. 311

CLEAN AIR ACT, Sec. 112 (Hazardous Air Pollutants, as amended by 40 CFR 63), Sec. 602 (40 CFR 82, Class I and II Ozone Depleting Substances):

This product may contain trace levels (<0.1% for carcinogens, <1% all other substances) of the following substance(s) listed under the regulation. Additional components may be unintentionally present at trace levels.

Substance(s)	Citations	
Acrylamide	Sec. 112	
	<u></u>	·

## CALIFORNIA PROPOSITION 65:

This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels, which would require a warning under the statute.

## MICHIGAN CRITICAL MATERIALS:

Substances listed under this regulation are not intentionally added or expected to be present in this product. Listed components may be present at trace levels.



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## STATE RIGHT TO KNOW LAWS:

Substances listed under this regulation are not intentionally added or expected to be present in this product. Listed components may be present at trace levels.

### INTERNATIONAL CHEMICAL CONTROL LAWS:

### CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA):

The substance(s) in this preparation are included in or exempted from the Domestic Substance List (DSL).

#### **AUSTRALIA**

All substances in this product comply with the National Industrial Chemicals Notification & Assessment Scheme (NICNAS).

#### CHINA

All substances in this product comply with the Provisions on the Environmental Administration of New Chemical Substances and are listed on or exempt from the Inventory of Existing Chemical Substances China (IECSC).

#### EUROPE

The substances in this preparation have been reviewed for compliance with the EINECS or ELINCS inventories.

#### JAPAN

All substances in this product comply with the Law Regulating the Manufacture and Importation Of Chemical Substances and are listed on the Existing and New Chemical Substances list (ENCS).

#### KOREA

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

#### **NEW ZEALAND**

All substances in this product comply with the Hazardous Substances and New Organisms (HSNO) Act 1996, and are listed on or are exempt from the New Zealand Inventory of Chemicals.

### **PHILIPPINES**

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

## 16. OTHER INFORMATION



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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 CPSTM 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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