



SAFETY DATA SHEET

Product: MARC 306 DISHWASHING DETERGENT

Form R04132

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER AND NAME: **MARC 306 DISHWASHING DETERGENT**

SDS DATE: 01/15/2019

SUPPLIER: Mid-American Research Chemical Corp.

ADDRESS: P. O. Box 927 Columbus, NE 68602-0927

PHONE: 402-564-7104 FAX: 402-563-1290

EMERGENCY PHONE: InfoTrac 1-800-535-5053

E-MAIL: marc@marc1.com WEBSITE: www.marc1.com

RECOMMENDED USE: Dishwashing detergent.

PREPARED BY: MARC

SECTION 2: HAZARDS IDENTIFICATION

CLASSIFICATION: Serious eye damage/eye irritation category 2A.

SIGNAL WORD AND HAZARD STATEMENTS-- WARNING: Causes serious eye irritation. **PRECAUTIONARY STATEMENTS--**

Wash hands thoroughly after handling. Wear eye protection/face protection. If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye Irritation persists, get medical attention. Do not take internally.



SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Specific percentages may be claimed as a trade secret.

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>% WT.</u>
Alpha olefin sulfonate	68439-57-6	8-12
Nonylphenol ethoxylate	9016-45-9	2-7
Dodecylbenzenesulfonic acid, triethanolamine salt	27323-41-7	5-10
Cocamide DEA	68603-42-9	2-4
Octyldimethylamine oxide	2605-78-9	1-4

SECTION 4: FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove contact lenses, if present and easy to do so. Continue to rinse for at least 10 minutes. Get medical attention.

SKIN: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

INGESTION: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. **DO NOT INDUCE VOMITING** unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

INHALATION: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY:

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

SPECIFIC TREATMENTS: No specific treatment.



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PROTECTION OF FIRST-AIDERS: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11).

SECTION 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA:

SUITABLE EXTINGUISHING MEDIA: Use an extinguishing agent suitable for the surrounding fire.

UNSUITABLE EXTINGUISHING MEDIA: None known.

SPECIAL FIRE FIGHTING PROCEDURES/ PROTECTIVE EQUIPMENT:

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or with suitable training. Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

UNUSUAL FIRE AND EXPLOSION HAZARDS: No specific fire or explosion hazard.

HAZARDOUS DECOMPOSITION BY-PRODUCTS: Decomposition products may include the following materials: carbon dioxide, carbon monoxide, sulfur oxides.

SECTION 6: ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURES: (For non-emergency personnel)

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

PROTECTIVE EQUIPMENT: (For emergency responders)

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel" (above).

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANUP: **SMALL SPILL:** Move containers from spill area. Place spilled material in a designated, labeled waste container. Dispose via a licensed waste disposal contractor

ENVIRONMENTAL PRECAUTIONS: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

SECTION 7: HANDLING AND STORAGE

GENERAL HANDLING: (Protective measures)

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

OTHER PRECAUTIONS:

Use only according to label directions. If unsure about safe use, contact your supervisor immediately.

KEEP OUT OF REACH OF CHILDREN! CAREFULLY READ ENTIRE LABEL BEFORE USE!

If medical advice is needed, have product container or label at hand.

STORAGE:

Store in accordance with local regulations. Store in original container protected from direct sunlight in cool, dry well-ventilated area, away from incompatible materials and food and drink. Keep container tightly closed and sealed until ready to use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

ADVICE ON GENERAL

OCCUPATIONAL HYGIENE: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Specific percentages may be claimed as a trade secret.

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>TLV</u>
Alpha olefin sulfonate	68439-57-6	not est.
Nonylphenol ethoxylate	9016-45-9	not est.
Dodecylbenzenesulfonic acid, triethanolamine salt	27323-41-7	not est.
Cocamide DEA	68603-42-9	1 mg/m ³ - TWA
Octyldimethylamine oxide	2605-78-9	not est.

OCCUPATIONAL EXPOSURE LIMITS: None

ENGINEERING CONTROLS: Good ventilation should be sufficient to control worker exposure to airborne contaminants.

VENTILATION : See Engineering Controls above.

RESPIRATORY PROTECTION: N/A

EYE/FACE PROTECTION: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes.

SKIN PROTECTION/PROTECTIVE GLOVES: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: N/A

WORK HYGIENIC PRACTICES: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE-	
PHYSICAL STATE/COLOR:	Red liquid.
ODOR:	Raspberry.
SOLUBILITY IN WATER:	Complete.
SPECIFIC GRAVITY:	1.01
MELTING POINT:	32°F
BOILING POINT:	212°F
pH:	8-9
FLASH POINT:	None
EVAPORATION RATE:	Not available.
FLAMMABILITY LIMITS:	Not available.
VAPOR PRESSURE (mmHg):	Not available.
VAPOR DENSITY (AIR = 1):	Not available.
PARTITION COEFFICIENT, n-OCTANOL/WATER:	Not available.
AUTO-IGNITION TEMPERATURE:	Not available.
DECOMPOSITION TEMPERATURE:	Not available.
VISCOSITY:	High

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: No specific test data related to reactivity available for this product or its ingredients.

STABILITY: Stable

CONDITIONS TO AVOID: No specific data.

INCOMPATIBILITY (MATERIAL TO AVOID): No specific data.



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HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

HAZARDOUS POLYMERIZATION: N/A. **CONDITIONS TO AVOID (POLYMERIZATION):** N/A.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects

Alpha olefin sulfonate: Acute Dermal LD50 Rabbit: >2000 mg/kg, Acute Oral LD50 Rat: 1300 – 2400 mg/kg

Nonylphenol ethoxylate: LD50 Oral Rat 3310 mg/kg, LD50 Dermal Rabbit >2000 mg/kg

Dodecylbenzenesulfonic acid, triethanolamine salt: Rabbit LD50 skin > 23220mg/kg, Rat LD50 oral >10800mg/kg

Cocoamide DEA: Acute Dermal LD50 Rabbit > 2g/kg, Acute Oral LD50 Rat > 5 g/kg

EYES: Causes serious eye irritation.

SKIN: No known significant effects or critical hazards.

INGESTION: Irritating to mouth, throat and stomach.

INHALATION: No known significant effects or critical hazards.

ACUTE HEALTH HAZARDS: Same as above: eye, skin, ingestion and inhalation.

CHRONIC HEALTH HAZARDS: Not available

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: N/A

CARCINOGENICITY: Not available.

TOXICITY TO ANIMALS: Not available.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Alpha olefin sulfonate: EC50 Algae: 45 mg/l – 72 hours, EC50 Daphnia: 4.48 mg/l – 48 hours, LC50 Fish: 2.5 – 5 mg/l – 96 hours

Nonylphenol ethoxylate: Acute LC50 Fish: 1 to 10 mg/l – 96 hours

Cocoamide DEA: LC50 Algae: <10 mg/l 72 hours, LC50 Daphnia: <10 mg/l 48 hours, LC50 Fish: <10 mg/l 96 hours

PERSISTENCE AND DEGRADABILITY : Biodegradable

BIOACCUMULATIVE POTENTIAL : Not Available.

MOBILITY IN SOIL
SOIL/WATER PARTITION : Not Available.
COEFFICIENT (Koc)

OTHER ADVERSE EFFECTS : No known significant effects or critical hazards.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: In accordance with federal, state and local regulations.

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION (for ground/non-bulk containers)



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CONTAINER SIZES(S): All
PROPER SHIPPING NAME: CLEANING COMPOUND, LIQUID.
HAZARD CLASS: N/A
ID NUMBER: N/A
PACKING GROUP: N/A
LABEL STATEMENT: NONE

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

United States inventory (TSCA 8b): (TOXIC SUBSTANCE CONTROL ACT): All components are listed or exempted.

Clean Air Act Section 112: Not listed.
(b) Hazardous Air
Pollutants (HAPs)

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): NA

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT): NA

SARA 311/312 CLASSIFICATION: Immediate (acute) health hazard.

SARA Title III, Section 313 Components: NA

SECTION 16: OTHER INFORMATION

HMIS/NFPA Ratings: Health = 0
Flammability = 0
Reactivity = 0
Other = -
Protection = -

REVISION DATE: 01/15/2019

DISCLAIMER: While the information contained herein is believed to be correct, no warranties are made with respect thereto, and all liability from reliance thereon is disclaimed.