

CASTROL INDUSTRIAL NORTH AMERICA INC SPECIALTY PRODUCTS DIV -- BRAYCO MICRONIC 883  
-- RED -- 9150-01-119-8149

===== Product Identification =====

Product ID:BRAYCO MICRONIC 883 -- RED

MSDS Date:07/13/2000

FSC:9150

NIIN:01-119-8149

Status Code:A

MSDS Number: CKSCY

=== Responsible Party ===

Company Name:CASTROL INDUSTRIAL NORTH AMERICA INC SPECIALTY PRODUCTS  
DIV

Address:1001 WEST 31ST STREET

City:DOWNERS GROVE

State:IL

ZIP:60515-1280

Country:US

Info Phone Num

:800-621-2661

Emergency Phone Num:(800)424-9300

Resp. Party Other MSDS Num.:27011A

Chemtrec Ind/Phone:(800)424-9300

CAGE:2R128

=== Contractor Identification ===

Company Name:CASTROL INDUSTRIAL NORTH AMERICA INC SPECIALTY PRODUCTS  
DIV

Address:1001 WEST 31ST STREET

Box:City:DOWNERS GROVE

State:IL

ZIP:60515-1280

Country:US

Phone:800-621-2661/ FAX: 630-241-4140

CAGE:2R128

===== Composition/Information on Ingredients =====

Ingred Name:NAPHTHALENESULFONIC ACID, DINONYL-, BARIUM  
SALT

CAS:25619-56-1

Minumum % Wt:1.

Maxumum % Wt:5.

ACGIH TLV:0.5 MG/M3

===== Hazards Identification =====

LD50 LC50 Mixture:NOT PROVIDED

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:EYE: MAY CAUSE EYE IRRITATION. SKIN:

CONCENTRATE MAY CAUSE SKIN IRRITATION. SKIN ABSORPTION: NO ACUTE

ECFFECTS EXPECTED. INGESTION: THIS PRODUCT MAY CAUSE

GASTRIOINTESTI

RESPIRATORY DISTRESS WITH SYMPTOMS OF NAUSEA, VOMITING, DIARRHEA, AND ABDOMINAL PAIN. INHALATION: INHALATION OF HIGH CONCENTRATIONS OF MISTS MAY PRODUCE IRRITATION AND DAMAGE TO THE RESPIRATORY TRACT. CHRONIC EFFECTS: A REVIEW OF THE LITERATURE DOES NOT SHOW OBVIOUS LONG TERM HAZARD.

Explanation of Carcinogenicity: NO COMPONENT KNOWN TO BE PRESENT IN THIS PRODUCT AT >0.1% IS PRESENTLY LISTED AS A CARCINOGEN BY IARC, NTP OR OSHA UNLESS OTHERWISE NOTED IN SECTION P- OTHER INFORMATION.

Effects of Overexposure: EYE: MAY CAUSE EYE IRRITATION. SKIN: CONCENTRATE MAY CAUSE SKIN IRRITATION. SKIN ABSORPTION: NO ACUTE EFFECTS EXPECTED. INGESTION: THIS PRODUCT MAY CAUSE GASTROINTESTINAL DISTRESS WITH SYMPTOMS OF NAUSEA, VOMITING, DIARRHEA, AND ABDOMINAL PAIN. INHALATION: INHALATION OF HIGH CONCENTRATIONS OF MISTS MAY PRODUCE IRRITATION AND DAMAGE TO THE RESPIRATORY TRACT. CHRONIC EFFECTS: A REVIEW OF THE LITERATURE DOES NOT SHOW OBVIOUS LONG TERM HAZARD.

Medical Condition Aggravated by Exposure: NOT PROVIDED

===== First Aid Measures =====

First Aid: EYE: FLUSH WITH PLENTY WATER. GET MEDICAL HELP IF IRRITATION OCCURS. SKIN: WASH WITH PLENTY SOAP & WATER. REMOVE CONTAMINATED CLOTHING & WASH BEFORE REUSE. GET MEDICAL HELP IF IRRITATION PERSISTS. USE SKIN CREAM FOR DEFATTED AREAS. INGESTION: ASPIRATION HAZARD: DO NOT INDUCE VOMITING OR GIVE ANYTHING BY MOUTH. MATERIAL CAN ENTER LUNGS & CAUSE SEVERE DAMAGE. WATCH VICTIM. IF VOMITING OCCURS, OR IF COMATOSE/LETHARGIC, PLACE ON LEFT SIDE WITH HEAD DOWN. GET IMMEDIATE MEDICAL HELP. INHALATION: MOVE TO FRESH AIR IMMEDIATELY. GIVE CPR IF NOT BREATHING. KEEP WARM/RESTED. TREAT SYMPTOMATICALLY/SUPPORTIVELY. GET MEDICAL HELP IMMEDIATELY.

===== Fire Fighting Measures =====

Flash Point Method: COC

Flash Point: =221.1°C, 430°F

Autoignition Temp: Autoignition Temp Text: N/D

Lower Limits: N/D

Upper Limits: N/A

D

Extinguishing Media: DRY CHEMICAL, CO<sub>2</sub>, OR ALCOHOL FOAM.

Fire Fighting Procedures: CONTACT WITH WATER WILL CAUSE SPATTERING AND MAY GENERATE ENOUGH HEAT TO IGNITE COMBUSTIBLE MATERIALS.

Unusual Fire/Explosion Hazard: NONE KNOWN

===== Accidental Release Measures =====

Spill Release Procedures: LARGE: WEAR PROTECTIVE CLOTHING. STOP SOURCE OF LEAK IF POSSIBLE. DIKE, CONTAIN SPILL. RECOVER FREE LIQUID. PREVENT ENTRY INTO WATERWAYS. SOAK UP RESIDUE WITH INERT ABSORBENT

LIKE CLAY, SAND ETC. STORE & DISPOSE OF PROPERLY. FLUSH WITH WATER. WHERE FEASIBLE, REMOVE CONTAMINATED SOIL. SMALL SPILLS: NEUTRALIZE AND/OR SOAK UP WITH INERT ABSORBENT. STORE IN CLOSED CONTAINER & DISPOSE OF PROPERLY.

Neutralizing Agent: NOT PROVIDED

===== Handling and Storage =====

Handling and Storage Precautions: MAINTAIN AMBIENT TEMPERATURES. AVOID PROLONGED/REPEATED BREATHING OF VAPORS, MISTS, FUMES. KEEP CONTAINER TIGHTLY CLOSED. DO NOT STORE NEAR HEAT, FLAME, STRONG OXIDANTS. MAINTAIN ADEQUATE VENTILATION.

Other Precautions: NOT PROVIDED

===== Exposure Controls/Personal Protection =====

Respiratory Protection: USE NIOSH/MSHA APPROVED RESPIRATOR WITH ORGANIC VAPOR CARTRIDGE IF VAPOR CONCENTRATIONS EXCEED PERMISSIBLE EXPOSURE LIMIT.

Ventilation: PROVIDE SUFFICIENT MECHANICAL, GENERAL, AND/OR LOCAL EXHAUST TO MAINTAIN EXPOSURE BELOW ANY APPLICABLE TLV OR PEL.

Protective Gloves: NITROGEN-RESISTANT GLOVES

Eye Protection: SAFETY GLASSES WITH SIDE SHIELD OR CHEMICAL GOGGLES.

Other Protective Equipment: IMPERVIOUS PROTECTIVE CLOTHING AND CHEMICAL RESISTANT SAFETY SHOES SHOULD BE WORN TO MINIMIZE CONTACT. EMERGENCY SHOWER AND EYEWASH FACILITY SHOULD BE PROVIDED IN ALL AREAS WHERE PRODUCT IS HANDLED.

Work Hygienic Practices: WASH CONTAMINATED CLOTHING WITH SOAP AND WATER AND DRY BEFORE REUSE.

Supplemental Safety and Health

===== Physical/Chemical Properties =====

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HCC:V6  
Boiling Pt:>260.C, 500.F  
Melt/Freeze Pt:M.P/F.P Text:NOT DETERMINED  
Vapor Pres:NOT DETERMINED  
Vapor Density:NA  
Spec Gravity:0.8600 +/-  
pH:NA  
Evaporation Rate & Reference:ND  
Solubility in Water:SLIGHT  
Appearance and Odor:RED FLUID; MILD PETROLEUM ODOR

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES  
STRONG OXIDIZERS.  
Stability Condition to Avoid:HEAT AND SOURCES OF IGNITION.  
Hazardous Decomposition Products:IRRITATING OR TOXIC FUMES; CO AND CO2;  
OXIDES OF SULFUR.

===== Toxicological Information =====

Toxicological Information:PRODUCT CONTAINS LOW LEVELS OF BARIUM  
DINONYLNAPHTHALENE SULFONATE (