

CASTROL INDUSTRIAL NORTH AMERICA INC SPECIALTY PRODUCTS DIV -- BRAYCOTE 646 --  
9150-00-753-4686

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

Product ID:BRAYCOTE 646

MSDS Date:07/10/2000

FSC:9150

NIIN:00-753-4686

Status Code:A

MSDS Number: CLHWJ

=== 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:630-241-4000/800-621-2661

Emergency Phone Num:1-800-434-9300(CHEMTREC)

Resp. Party Other MSDS Num.:27073A

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

Contract Num:SP0450-01-M-LM73

CAGE:2R128

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

Ingred Name:NAPHTHALENESULFONIC ACID, DINONYL-, BARIUM SALT

CAS:25619-56-1

Minumum % Wt:1.

Maxumum % Wt:5.

Other REC Limits:TWA 0.5 MG/M3 MFR

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

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

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

CONTACT: 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: 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.

Effects of Overexposure:EYE: IRRITATION.

SKIN CONTACT: IRRITATION. SKIN

ABSORPTION: NONE EXPECTED. INGESTION: GASTROINTESTINAL DISTRESS, NAUSEA, VOMITING, DIARRHEA, ABDOMINAL PAIN. INHALATION: IRRITATION AND DAMAGE OF RESPIRATORY TRACT.

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

First Aid:EYES: FLUSH WITH WATER FOR 15 MINUTES. GET MEDICAL ATTENTION. SKIN: WASH WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND LAUNDRY BEFORE REUSE. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

USE SKIN CREAM. INGESTION: ASPIRATION HAZARD: DO NOT INDUCE VOMITING OR GIVE ANYTHING BY MOUTH; MATERIAL CAN ENTER LUNGS AND CAUSE DAMAGE. IF VOMITING OCCURS, OR IF COMATOSE OR LETHARGIC, PLACE ON LEFT SIDE WITH HEAD DOWN. SEEK MEDICAL ATTENTION. INHALATION: MOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING DIFFICULT, GIVE OXYGEN. GET MEDICAL ATTENTION.

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

Flash Point Method:CO

Flash Point:>260.C, 500.F

Autoignition Temp:Autoignition Temp Text:N/D

Lower Limits:N/D

Upper Limits:N/D

Extinguishing Media:CARBON DIOXIDE, DRY CHEMICAL, FOAM.

Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN POSITIVE PRESSURE MODE.

Unusual Fire/Explosion Hazard:POTENTIAL COMBUSTION PRODUCTS ARE OXIDES OF CARBON. PROPERTIES THAT COULD INCREASE FIRE OR EXPLOSION HAZARD:

NONE KNOWN.

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

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Spill Release Procedures:DO NOT PERMIT PRODUCT TO ENTER SEWERS, STREAMS OR OTHER WATERWAYS. REMOVE ALL SOURCES OF IGNITION. DIKE SPILL AND ELIMINATE LEAK. ABSORB WITH DRY INERT MATERIAL AND STORE IN CLOSED CONTAINERS UNTIL DI SPOSAL.

===== 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.

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

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

Ventilation:PROVIDE SUFFICIENT MECHANICAL, GENERAL, AND/OR LOCAL EXHAUST TO MAINTAIN EXPOSURE BELOW TLV. GREATER THAN 60 FT<sup>3</sup> PER MINUTE, RECOMMENDED.

Protective Gloves:PVC OR NITRILE GLOVES SHOULD BE USED WHEN HANDLING THIS PRODUCT.

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

Other Protective Equipment:PROVIDE SAFETY SHOWER AND EYEWASH FACILITY. WEAR APPROPRIATE CLOTHING TO AVOID SKIN CONTACT.

Supplemental Safety and Health

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

HCC:V5

Boiling Pt:>315.6C, 600.F

Melt/Freeze Pt:M.P/F.P Text:NOT DETERMINED

Vapor Pres:N/D

Vapor Density:N/D

Spec Gravity:0.9300 +/-0.1 @60F(H<sub>2</sub>O=1)

V

iscosity:NOT AVAILABLE.

Evaporation Rate & Reference:N/D

Solubility in Water:INSOLUBLE.

Appearance and Odor:TAN SEMI-FLUID; MILD ODOR.

Percent Volatiles by Volume:N/D

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS.

Stability Condition to Avoid:STABLE UNDER NORMAL CONDITIONS. CONDITIONS TO AVOID: NONE KNOWN.

Hazardous Decomposition Products:POTENTIAL COMBUSTION PRODUCTS ARE OXIDES OF CARBON.

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

Toxicological Information:EYE EFFECTS: MAY CAUSE EYE IRRITATION. SKIN EFFECTS: CONTACT: CONCENTRATE MAY CAUSE SKIN IRRITATION. SKIN EFFECTS, ABSORPTION: NO ACUTE EFFECTS EXPECTED. ACUTE ORAL EFFECTS (INGESTION): THIS PRODUCT MAY CAUSE GASTROINTESTINAL DISTRESS WITH SYMPTOMS OF NAUSEA, VOMITING, DIARRHEA, AND ABDOMINAL PAIN. ACUTE INHALATION EFFECTS: 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.

===== Ecological Information =====

Ecological:ECOTOXICOLOGICAL INFORMATION: NO SPECIFIC ECOLOGICAL DATA AVAILABLE FOR THIS PRODUCT.

===== Disposal Considerations =====

Waste Disposal Methods:PRODUCT AS PURCHASED DOES NOT FALL UNDER CURRENT U.S. EPA RCRA DEFINITIONS OF HAZARDOUS WASTE . UNDER RCRA IT IS GENERATOR'S RESPONSIBILITY TO DETERMINE STATUS OF THE WASTE AT TIME OF DISPOSAL. DISPOSE OF I/A/W LOCAL, STATE, AND FEDERAL REGULATIONS. DISPOSAL OF THIS MATERIAL TO THE LAND MAY BE BANNED BY FEDERAL LAW (40 CFR 268).

===== MSDS Transport Information =====

Transport Information:HAZARDOUS MATERIALS DESCRIPTION / PROPER SHIPPING NAME: NOT REGULATED. TELEPHONE NUMBER FOR TRANSPORT INSTRUCTIONS: 800-621-2661, SHEA DEPARTMENT

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===== Regulatory Information =====

SARA Title III Information:SECTION 313 LISTED CHEMICAL: BARIUM COMPOUND (CAS # 25619-56-1), 1.55%. CERCLA / EPCRA: SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (EHS): NO LISTED INGREDIENTS ARE PRESENT ON THE 302 LIST. SECTION 311 / 312 HAZARD CLASS (ES): IMMEDIATE: YES; DELAYED: YES; FIRE: NO; REACTIVITY: NO; SUDDEN RELEASE OF PRESSURE: NO. SECTION 313 TOXIC CHEMICALS: BARIUM COMPOUND ( CAS # 25619-5

6-1).

Federal Regulatory Information:HAZARDOUS PER OSHA 29 CFR 1910.1200: YES. OTHER U.S. FEDERAL REGULATIONS: THIS PRODUCT IS A MIXTURE AND IS NOT LISTED IN THE TSCA INVENTORY. THE INDIVIDUAL INGREDIENTS IN THE PRODUCT ARE LISTED IN THE TSCA INVENTORY.

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===== Other Information =====

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