

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

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

Product ID:BRAYCOTE 646

MSDS Date:04/16/1999

FSC:9150

NIIN:00-753-4686

Status Code:A

MSDS Number: CKPHC

=== 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

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:SP0450-00-M-C444

CAGE:2R128

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

Ingred Name:NAPHTHALENESULFONIC ACID, DINONYL-, BARIUM S

ALT

CAS:25619-56-1

Minimum % Wt:1.

Maxumum % Wt:5.

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

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

CONTACT: CONCENTRATE MAY CAUSE SKIN IRRITATION. SKIN ABSORPTION: NO

ACUTE EFFECTS EXPECTED. INGESTION: THIS PRODUCT MAY CAUSE

GASTROINTESTINAL DISTRESS WITH SYMPTOM S 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. EXPOSURE: SKIN CONTACT, EYE CONTACT, INHALATION.

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: 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. EXPOSURE: SKIN CONTACT, EYE CONTACT, INHALATION.

==

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

First Aid:EYE: IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATT'N IMMEDIATELY. SKIN: IN CASE OF CONTACT, WASH SKIN WITH PLENTY OF SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. GET MEDICAL ATT'N IF IRRITATION PERSISTS. USE SKIN CREAM FOR DEFATTED AREAS. INGESTION: ASPIRATION HAZARD: DO NOT INDUCE VOMITING OR GIVE ANYTHING BY MOUTH. DO NOT LEAVE VICTIM UNATTENDED. IF VOMITING OCCURS, OR IF COMATOSE OR LETHARGIC, PLACE ON THE LEFT SIDE WITH THE HEAD DOWN. SEEK IMMEDIATE MEDICAL ATT'N. INHALATION: REMOVE TO FRESH AIR. ASSIST WITH BREATHING SUPPORT IF NEEDED. GET MEDICAL ATT'N.

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

Flash Point Method:COC

Flash Point:>260.C, 500.F

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:HAZARDOUS PRODUCTS OF COMBUSTION:  
POTENTIAL COMBUSTION PRODUCTS ARE OXIDES OF CARBON.

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

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 VENTILATIO N.

===== 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 60F3/MIN  
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:SAFETY SHOWER AND EYEWASH FACILITY.

APPROPRIATE CLOTHING TO AVOID SKIN CONTACT.

Supplemental Safety and Health

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

HCC:V6

Boiling Pt:>315.6C, 600.F

Melt/Freeze Pt:M.P/F.P Text:N/D

Spec Gravity:.9300

Evaporation Rate & Reference:N/D

Solubility in Water:INSOLUBLE

Appearance and Odor:TAN SEMI-FLUID COMPOUND, MILD ODOR

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS.

Stability Condition to Avoid:NONE KNOWN

Hazardous Decomposition Products:POTENTIAL COMBUSTION PRODUC

TS ARE  
OXIDES OF CARBON.

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

Ecological:NO SPECIFIC ECOLOGICAL DATA ARE AVAILABLE FOR THIS PRODUCT.

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

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

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

Transport Information:NOT REGULATED.

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

SARA Title III Information:NO LISTED INGREDIENTS ARE PRESENT ON THE 302 LIST. IMMEDIATE AND DELAYED SECTION 311/312 HAZARD CLASSES. SECTION 313 TOXIC CHEMICAL- BARIUM COMPOUND 25619-56-1.

Federal Regulatory Information: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.

Disclaimer (provided with this information by the compiling agencies):  
This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.