

CASTROL INDUSTRIAL NORTH AMERICA INC SPECIALTY PRODUCTS DIV -- BRAYCOTE 646 --
9150-00-687-4241

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

Product ID:BRAYCOTE 646

MSDS Date:04/16/1999

FSC:9150

NIIN:00-687-4241

MSDS Number: CJPGM

=== 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

Co

untry:US

Info Phone Num:1-800-621-2661

Emergency Phone Num:1-800-424-9300

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:SP0450-00-M-C214

CAGE:2R128

Company Name:SDB CONSULTANTS LTD

Address:401 WHITNEY AVE SUITE 120

Bo

x:City:GRETNA

State:LA

ZIP:70056

Country:US

Phone:504-366-9105

Contract Num:SP0450-99-M-NF77

CAGE:0PGK2

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

Ingred Name:NAPHTHALENESULFONIC ACID, DINONYL-, BARIUM SALT

CAS:25619-56-1

Minumum % Wt:1.

Maxumum % Wt:5.

OSHA PEL:0.5 MG/M3TWA

ACGIH TLV:0.5 MG/M3 TWA

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion: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 EFFECTS: A REVIEW OF THE LITERATURE DOES NOT SHOW OBVIOUS LONG TERM HAZARD.

Explanation of Carcinogenicity:NO COMPONENTS 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: NO ACUTE EFFECTS EXPECTED. INGESTION: GASTROINTESTINAL DISTRESS, NAUSEA, VOMITING, DIARRHEA, AND ABDOMINAL PAIN. INHALATION: IRRITATION AND DAMAGE TO THE RESPIRATORY TRACT.

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===== First Aid Measures =====
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First Aid:EYE: FLUSH WITH PLENTY OF WATER FOR 15 MINUTES. GET MEDICAL ATTENTION. SKIN: WASH WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. GET MEDICAL ATTENTION IF IRRITATION PERSISTS. USE SKIN CREAM FOR DEFATTED AREAS. INGESTION: ASPIRATION HAZARD: DO NOT INDUCE VOMITING OR GIVE ANYTHING BY MOUTH BECAUSE THIS MATERIAL CAN ENTER THE LUNGS AND CAUSE SEVERE DAMAGE. DO NOT LEAVE VICTIM UNATTENDED. IF VOMITING OCCURS, OR IF COMATOSE OR LETHARGIC, PLACE ON LEFT SIDE WITH HEAD DOWN. GET MEDICAL ATTENTION. INHALATION: MOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING DIFFICULT, GIVE OXYGEN. GET MEDICAL ATTENTION.

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===== Fire Fighting Measures =====
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Flash Point Method:COC
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

G APPARATUS WITH

FULL FACEPIECE OPERATED IN POSITIVE PRESSURE MODE.

Unusual Fire/Explosion Hazard:NO KNOWN PROPRIETIES THAT COULD INCREASE
FIRE OR EXPLOSION HAZARD..

===== 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.

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===== 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:THE UNLISTED INGREDIENTS (95%TO 99%) ARE NOT NOW
KNOWN TO BE HAZARDOUS AS DEFINED IN OSHA.

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

Respiratory

Protection:USE NIOSH/MSHA APPROVED RESPIRATOR WITH ORGANIC
VAPOR CARTRIDE IF VAPOR CONCENTRATION EXCEEDS PERMISSIBLE EXPOSURE
LIMIT. PROVIDE SUFFICIENT MECHANICAL, GENERAL, AND/OR LOCAL
EXHAUST TO MAINTAIN EXPO SURE BELOW TLV. GREATER THAN 60 FT3/ MIN
RECOMMENDED.

Ventilation:PROVIDE SUFFICIENT MECHANICAL , GENERAL, AND/OR LOCAL
EXHAUST VENTILATION TO MAINTAIN EXPOSURE BELOW TLV. GREATER THAN
60 FT3/ MIN RECOMMENDED.

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

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

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

Work Hygienic Practices:AVOID PROLONG/REPEATED BREATHINGOF VAPORS,
MISTS, FUMES. KEEP CONTAINERS TIGHTLY CLOSED.

Supplemental Safety and Health

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

HCC:V5

Boiling Pt:>315.6C, 600.F

Melt/Freez

e Pt:M.P/F.P Text:N/D

Vapor Pres:N/D

Vapor Density:N/D

Spec Gravity:60F (H2O=1):0.9300 +/-0.1

Evaporation Rate & Reference:N/D

Solubility in Water:INSOLUBLE

Appearance and Odor:TAN SEMI-FLUID COMPOUND, 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:NONE KNOWN. STABLE UNDER NORMAL CONDITIONS.

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

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

Toxicological Information:EYE EFFECTS: MAY CAUSE EYE IRRITATION. SKIN EFFECTS: CONCENTRATE MAY CAUSE SKIN IRRITATION. SKIN 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 MIST 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 ARE AVAILABLE FOR THIS PRODUCT.

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

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL

L REGULATIONS. DISPOSE OF THIS MATERIAL TO THE LAND MAY BE BANNED BY FEDERAL LAW (40 CFR 268). THIS PRODUCT AS PURCHASED DOES NOT FALL UNDER CURRENT U.S. EPA RCRA DEFINITIONS OF HAZARDOUS WASTE. IT IS GENERATORS RESPONSIBILITY TO DETERMINE STATUS OF THE WASTE AT TIME OF DISPOSAL.

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

Transport Information:NOT REGULATED. TELEPHONE NUMBER FOR TRANSPORT INSTRUCTION: 1-800-621-2661, SHEA DEPARTMENT.

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

SARA Title III Information:SECTION 311/312 HAZARD CLASS(ES): IMMEDIATE: YES. DELAYED: YES. FIRE: NO. REACTIVITY: NO. SUDDEN RELEASE OR PRESSURE: NO. SECTION 313 TOXIC CHEMICALS: 25619-56-1. BARIUM COMPOUNDS.

Federal Regulatory Information:U.S. FEDERAL REGULATIONS: HAZARDOUS PER OSHA 29 CFR 1910.1200: YES. CERCLA/EPCRA: SECTION 302 EXTREMELY HAZARDOUS SUBSTANCE (EHS): NO LISTED INGREDIENTS ARE PRESENT ON THE 302 LIS

T. 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.

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

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