

CASTROL INDUSTRIAL NORTH AMERICA INC SPECIALTY PRODUCTS DIV -- BRAYCOTE 650 --
9150-00-949-0323

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

Product ID:BRAYCOTE 650

MSDS Date:07/10/2000

FSC:9150

NIIN:00-949-0323

Status Code:A

MSDS Number: CLHSN

=== 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:(800)424-9300

Resp. Party Other MSDS Num.:27088A

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-LM50

CAGE:2R128

===== Composition/Information on In
gredients =====

Ingred Name:NAPHTHALENESULFONIC ACID, DINONYL-, BARIUM SALT

CAS:25619-56-1

Minumum % Wt:1.

Maxumum % Wt:5.

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

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

Health Hazards Acute and Chronic:EYE: CONCENTRATE WILL CAUSE EYE

IRRITATION. SKIN: CONCENTRATE MAY CAUSE SKIN IRRITATION. SKIN

ABSORPTION: NO ACUTE EFFECTS EXPECTED. INGESTION: INDIVIDUALS WITH

PREEXISTING DISEASES OF THE LUNGS MAY

HAVE INCREASED SUSCEPTIBILITY

TO THE TOXICITY OF EXCESSIVE EXPOSURES FROM THERMAL DECOMPOSITION.
INHALATION: INHALATION OF DECOMPOSITION PRODUCTS (OCCURS IF HEATED >300C) OR OF SMOKE FROM CONTAMINATED TOBACCO PRODUCTS MAY CAUSE RESPIRATORY IRRITATION AND INDUCE POLYMER FUME FEVER CONDITION.

Effects of Overexposure:EYE: IRRITATION. SKIN CONTACT: IRRITATION.

INGESTION: INDIVIDUALS WITH PREEXISTING DISEASES OF THE LUNGS MAY HAVE INCREASED SUSCEPTIBILITY TO THE TOXICITY OF EX

CESSIVE EXPOSURES

FROM THERMAL DECOMPOSITION. INHALATION: SYMPTOMS OF EXPOSURE TO DECOMPOSITION PRODUCTS ARE: LUNG IRRITATION, PULMONARY EDEMA, FLU-LIKE SYMPTOMS (EXAMPLE-FEVER CHILLS).

Medical Cond Aggravated by Exposure:NO MEDICAL CONDITIONS ARE KNOWN TO BE AGGRAVATED BY EXPOSURE.

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

First Aid:EYE: IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION IMMEDIATELY. SKIN:

WASH EXPOSED

AREAS OF THE BODY WITH SOAP AND WATER. FOR HOT MOLTEN MATERIAL, COOL BURNED SKIN AREA BY IMMERSING IN COLD WATER OR APPLY COLD WATER. WASH CLOTHING BEFORE REUSE. INGESTION: CONSULT PHYSICIAN. TREATMENT NOT NORMALLY REQUIRED. INHALATION: REMOVE FROM EXPOSURE AREA TO FRESH AIR IMMEDIATELY. ADMINISTER OXYGEN IF DEEMED NECESSARY. POLYMER FUME FEVER SYMPTOMS SHOULD SUBSIDE WITHIN 24 HOURS.

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

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Flash Point Method:COC

Flash Point:>148.9C, 300.F

Autoignition Temp:Autoignition Temp Text:ND

Lower Limits:ND

Upper Limits:ND

Extinguishing Media:WATER, FOAM, DRY CHEMICAL AND CARBON DIOXIDE.

Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS. WEAR FULL PROTECTIVE EQUIPMENT. HYDROGEN FLUORIDE FUMES EMITTED DURING A FIRE CAN REACT WITH WATER TO FORM HYDROFLUORIC ACID.

Unusual Fire/Explosion Hazard:FLUOROPOLYMERS WILL DEGRADE UPON PROLONGED HEATING OR IN A FIRE, LIBERATE

TING CARBONYL FLUORIDE AND
HYDROGEN FLUORIDE (HF). THIS GAS IS TOXIC IF INHALED OR IT COMES
INTO CONTACT WITH MOIST SKIN.

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

Spill Release Procedures: REMOVE SOURCES OF IGNITIONS, CONTAIN SPILL TO
SMALLEST AREA POSSIBLE. STOP LEAK IF POSSIBLE. PICK UP SMALL SPILLS
WITH ABSORBENT MATERIALS SUCH AS PAPER TOWELS, OIL DRY SAND OR
DIRT. RECOVER LARGE SPILLS FOR SALVAGE OR DISPOSAL. WASH HARD
SURFACES WITH SAFETY SOLVENT OR DETERGENT TO REMOVE REMAINING OIL
FILM. GREASY NATURE WILL RESULT IN A SLIPPERY SURFACE.

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

Handling and Storage Precautions: AVOID BREATHING DUST. AVOID
CONTAMINATION OF CIGARETTES OR TOBACCO WITH DUST FROM THIS MATERIAL.
DO NOT USE A TORCH TO CLEAN THIS MATERIAL FROM EQUIPMENT WITHOUT
LOCAL EXHAUST VENTILATION AND RESPIRATOR. KEEP CONTAINER CLOSED TO
AVOID CONTAMINATION. MAINTAIN AMBIENT TEMPERATURES.

Other Precautions: HANDLING AND STORAGE CONT: AVOID PROLONGED/REPEATED
BREATHING OF VAPORS, MISTS, FUMES. DO NOT STORE NEAR HEAT, FLAME,
STRONG OXIDANTS.

===== 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 ANY
APPLICABLE TLV OR PEL.

Protective Gloves: NEOPRENE TYPE 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 IN ALL AREAS IN WHICH THIS
PRODUCT IS HANDLED.

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

Supplemental Safety and Health

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

HCC:V6

Boiling Pt:B.P. Text:ND

Vapor Pres:ND

Vapor Density:ND

Spec Gravity:1.1000 +/-0.1

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

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS, REACTIVE METALS.

Stability Condition to Avoid:AVOID CONTACT WITH STRONG OXIDIZING AGENTS. EXTENDED EXPOSURE TO HIGH TEMPERATURES MAY CAUSE DECOMPOSITION.

Hazardous

Decomposition Products:ABOVE 300C, HF, CARBONYL FLUORIDE AND OTHER FLUORINATED COMPOUNDS MAY BE GENERATED.

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

Toxicological Information:CHRONIC EFFECTS: A REVIEW OF THE LITERATURE DOES NOT SHOW OBVIOUS LONG-TERM HAZARD. ACUTE INHALATION EFFECTS: INHALATION OF DECOMPOSITION PRODUCTS OR OF SMOKE FROM CONTAMINATED TOBACCO PRODUCTS MAY CAUSE RESPIRATORY IRRITATION AND INDUCE POLYMER FUME FEVER CONDITION.

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

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

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

Waste Disposal Methods:PREFERRED OPTIONS FOR DISPOSAL ARE (1) RECYCLING AND (2) LAND FILL. INCINERATE ONLY IF INCINERATOR IS CAPABLE OF SCRUBBING OUT HYDROGEN FLUORIDE AND OTHER ACIDIC COMBUSTION PRODUCTS. TREATMENT, STORAGE, TRANSPORTATION AND DISPOSAL MUST BE IN ACCORDANCE

WITH APPLICABLE FEDERAL, STATE/PROVINCIAL, AND LOCAL REGULATIONS.

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

Transport Information:NOT REGULATED.

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

SARA Title III Information:NO LISTED INGREDIENTS ARE PRESENT ON THE 302 LIST OF EXTREMELY HAZARDOUS SUBSTANCES. SECTION 311/312 HAZARD CLASSES: IMMEDIATE & DELAYED. CAS# 25619-56-1 (1.16) IS LISTED ON SECTION 313 TOXIC CHEMICALS LIST.

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.

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

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