

CASTROL INC.,BRAY PRODUCTS DIV. -- BRAYCO MICRONIC 889 ; HEAT TRANSFER FLUID --  
9160-01-306-2475

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

Product ID:BRAYCO MICRONIC 889 ; HEAT TRANSFER FLUID

MSDS Date:09/25/1990

FSC:9160

NIIN:01-306-2475

MSDS Number: BKRDT

=== Responsible Party ===

Company Name:CASTROL INC.,BRAY PRODUCTS DIV.

Address:16715 VON KARMAN AVE.,SUITE230

City:IRVINE

State:CA

ZIP:92714

Country

:US

Info Phone Num:714-660-9414 202-483-7616

Emergency Phone Num:714-660-9414

Preparer's Name:KAREL WRIGHT

CAGE:EO288

=== Contractor Identification ===

Company Name:CASTROL INC.,BRAY PRODUCTS DIV.

Address:16715 VON KARMAN AVE.,SUITE 230

City:IRVINE

State:CA

ZIP:92714

Country:US

Phone:714-660-9414/ABROAD 202-4837616COLL

CAGE:EO288

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

Pho

ne:800-621-2661/ FAX: 630-241-4140  
CAGE:2R128

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Composition/Information on Ingredients  
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Ingred Name:SYNTHETIC HYDROCARBONS MIXTURE  
Other REC Limits:NONE SPECIFIED

Ingred Name:OTHER COMPONENTS (TYPE NOT SPECIFIED)  
Other REC Limits:NONE SPECIFIED

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Hazards Identification  
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Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:ACUTE:IRRIT

ATION OF

EYES,SKIN,RESPIRATORY OR G.I.TRACTS;CNS EFFECTS LIKE  
HEADACHE,DIZZINESS,NAUSEA AND VOMITING IF INHALED. REDNESS OR BURNS  
OF EYES/SKIN POSSIBLE.CHRONIC:DRYING OF SKIN,DEFATTING OR D  
ERMATITIS POSSIBLE. NOT EXPECTED TO BE A SENSITIZER.

Explanation of Carcinogenicity:DATA PER MSDS

Effects of Overexposure:SEE HEALTH HAZARDS DATA.

Medical Cond Aggravated by Exposure:PERSONS WITH A HISTORY OF AILMENTS  
OR WITH A PRE-EXISTING DISEASE INVOLVING THE EYES, SKIN, OR  
RESPIRAT

ORY TRACT MAY BE AT INCREASED RISK FROM EXPOSURE.

=====  
First Aid Measures  
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First Aid:INHALATION:REMOVE TO FRESH AIR. RESUSCITATE IF NOT BREATHING.  
GET MEDICAL ATTENTION. EYES:IMMEDIATELY FLUSH WITH PLENTY OF WATER  
FOR 15 MINUTES HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION.  
SKIN:REMOVE CONTAMINATED CLOTHING. WASH WITH SOAP AND WATER. IF  
IRRITATION PERSISTS, GET MEDICAL ADVICE. INGESTION:DO NOT INDUCE  
VOMITING. GIVE NOTHING BY MOU  
TH IF UNCONSCIOUS. GET IMMEDIATE  
MEDICAL ATTENTION.

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Fire Fighting Measures  
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Flash Point Method:COC

Flash Point:310F,154C

Autoignition Temp:Autoignition Temp Text:612F

Extinguishing Media:N/K WATER FOG, CARBON DIOXIDE, FOAM, OR DRY  
CHEMICAL.

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A  
FULL FACED SELF CONTAINED BREATHING APPARATUS. EVACUATE AREA. COOL  
FIRE EXPOSED CONTAINERS WITH WATER SPRAY.

Unusual Fire/Exp

losion Hazard:DO NOT CUT, DRILL OR WELD ON OR NEAR  
CONTAINERS. COMBUSTION OR HEAT OF FIRE MAY PRODUCE HAZARDOUS  
DECOMPOSITION PRODUCTS AND VAPORS.

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

Spill Release Procedures:USE PROPER PERSONAL PROTECTION;CONTAIN FREE  
MATERIAL IF POSSIBLE;USE SUITABLE INERT ABSORBENT MATERIAL AND  
RECOVER FOR PROPER DISPOSAL IN AN APPROVED CONTAINER.

Neutralizing Agent:NOT APPLICABLE.

===== Handling and Storage  
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Handling and Storage Precautions:STORE IN A COOL, DRY, WELL VENTILATED  
AREA. KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE. PROTECT  
CONTAINERS FROM PHYSICAL DAMAGE.

Other Precautions:DO NOT TAKE INTERNALLY. DO NOT BREATHE MIST. AVOID  
PROLONGED OR REPEATED BREATHING OF VAPOR. AVOID CONTACT WITH EYES.  
USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING.

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

Respiratory Protection:U  
SE NIOSH/MSHA APPROVED RESPIRATOR AS REQUIRED  
IF ABOVE PEL/TLV OR SCBA IN AN ENCLOSED AREA.

Ventilation:LOCAL/GENERAL TO MAINTAIN PEL/TLV.

Protective Gloves:NEOPRENE, NITRILE, OR NATURAL RUBBER

Eye Protection:SAFETY GOGGLES WITH OPTIONAL FACE SHIELD

Other Protective Equipment:EYE WASH STATION AND SAFETY SHOWER,WORK  
CLOTHING AND APRON AS REQUIRED.

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND  
RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING OR  
FOOTWE

AR.

Supplemental Safety and Health

AVOID PROLONGED OR REPEATED EXPOSURE. DO NOT GET ON SKIN OR IN EYES. DO  
NOT BREATHE VAPORS OR MISTS.

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

HCC:N1

Boiling Pt:B.P. Text:>550F,>288C

Spec Gravity:0.802

Solubility in Water:SLIGHT

Appearance and Odor:CLEAR, COLORLESS TO LIGHT YEOLLOW; MILD ODOR

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS

S

stability Condition to Avoid:HIGH HEAT, OPEN FLAMES AND OTHER SOURCES  
OF IGNITION

Hazardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE AND  
OTHER UNIDENTIFIED COMPONENTS.

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

Waste Disposal Methods:CONSULT LOCAL AUTHORITIES.DISPOSAL MUST BE MADE  
IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND  
REGULATIONS.

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