

CLEARON CORP -- HALOGENE T-30 -- 6840-01-185-7455

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

Product ID:HALOGENE T-30

MSDS Date:03/27/2000

FSC:6840

NIIN:01-185-7455

MSDS Number: CKVTH

=== Responsible Party ===

Company Name:CLEARON CORP

Address:95 MACCORKLE AVE SW

City:SOUTH CHARLESTON

State:WV

ZIP:25303

Country:US

Info Phone Num:304-746-3000

Emergency Phone Num:800-424-9300

Resp. Party Other MSDS Num.:REV

ISION: 02.

Chemtrec Ind/Phone:(800)424-9300

CAGE:TO129

=== Contractor Identification ===

Company Name:CLEARON CORP

Address:95 MACCORKLE AVE SW

Box:City:SOUTH CHARLESTON

State:WV

ZIP:25303

Country:US

Phone:304-746-3000

CAGE:TO129

Company Name:GOURMET INQUE LTD

Address:191 STANLEY ST

Box:City:ELK GROVE VILLAGE

State:IL

ZIP:60007-1555

Country:US

Phone:847-296-6192/FAX: 800-542-1042

Contract Num:SP0450-01-M-D182

CAGE:0TNN7

Company Name:GOURMET INQUE LTD

Address:191 STANLEY ST

Box:City:ELK GROVE VILL

AGE
State:IL
ZIP:60007-1555
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Contract Num:SP0450-01-M-D183
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Country:US
Phone:847-296-6192/FAX: 800-542-1042
Contract Num:SP0450-01-M-ZE24
CAGE:0TNN7

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

Ingred Name:BROMOCHLORO-5,5-DIMETHYLHYDANTOIN
CAS:32718-18-6
= Wt:98.

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

LD50 LC50 Mixture:ORAL LD50: 1500MG/KG(RAT)
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:CAUSES BURNS. HALOGENE MAY CAUSE SKIN
SENSITIZATION.
Explanation of Carcinogenicity:NOT KNOWN TO BE CARCINOGENIC. NOT
INCLUDED IN NTP 8TH ANNUAL REPORT ON CARCINOGENS. NOT CLASSIFIED BY
IARC.
Effects of Overexposure:EYE: SEVERE IRRITANT. MAY CAUSE TEMPORARY OR
POSSIBLY PERM
ANENT EYE DAMAGE. SKIN: EXPOSURE TO WET SKIN MAY CAUSE
SEVERE SKIN IRRITATION. PROLONGED SKIN CONTACT MAY CAUSE
SENSITIZATION IN SUSCEPTIBLE I NDIVIDUALS. INHALATION: SEVERE
IRRITANT TO UPPER RESPIRATORY TRACT, NOSE, THROAT AND LUNGS. CAN
CAUSE SHORTNESS OF BREATH, HEADACHE AND NAUSEA.
Medical Cond Aggravated by Exposure:NO DATA PROVIDED BY MANUFACTURER

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

First Aid:EYES: HOLDING THE LIDS APART, FLUSH IMMEDIATELY

WITH LOTS OF
WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION IMMEDIATELY.
SKIN: REMOVE CONTAMINATED CLOTHING. WASH THOROUGHLY WITH MILD SOAP
& PLEN TY OF WATER FOR AT LEAST 15 MINUTES. WASH CONTAMINATED
CLOTHING THOROUGHLY BEFORE REUSE. GET MEDICAL ATTENTION
IMMEDIATELY. INGESTION: WASH MOUTH WITH PLENTY OF WATER & GIVE TWO
GLASSES OF WATER TO DR INK. GET MEDICAL ATTENTION IMMEDIATELY.
NEVER GIVE AN UNCONSCIOUS PERSON ANYTHING TO DRINK. INHALATION:
REMOVE PE
RSON TO FRESH AIR. KEEP SUBJECT QUIET & WARM. APPLY
ARTIFICIAL RESPIRATION IF NECESSARY . GET MEDICAL ATTENTION
IMMEDIATELY.

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

Flash Point:NONE
Extinguishing Media:DRY POWDER, CARBON DIOXIDE OR WATER SPRAY
Fire Fighting Procedures:IN CLOSED SPACES, FIRE FIGHTERS WITH
SELF-CONTAINED BREATHING APPARATUS (PRESSURE DEMAND MSHA/NIOSH
APPROVED OR EQUIVALENT) AND FULL PROTECTIVE GEAR. USE WATER SPRAY
TO COOL CONTAI
NERS EXPOSED TO FIRE . DO NOT BREATHE FUMES. CONTAIN
RUN-OFF.
Unusual Fire/Explosion Hazard:OXIDIZING MATERIAL. WHEN HEATED TO
DECOMPOSITION, MAY RELEASE POISONOUS AND CORROSIVE FUMES OF
HYDROGEN BROMIDE, NITROGEN OXIDES, AND HYDROGEN CHLORIDE. STRONG
OXIDIZING. AGENT FORMS EXPLOSIVE MIXTURE S WITH COMBUSTIBLE,
ORGANIC OR OTHER EASILY OXIDIZABLE MATERIALS.

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

Spill Release Procedures:EVACUATE THE SPILL AREA. K
EEP DUST TO A
MINIMUM. TRANSFER SPILLED MATERIAL TO SUITABLE CONTAINERS FOR
RECOVERY OR DISPOSAL. VENTILATE AREA AND WASH SPILL SITE AFTER
MATERIAL PICKUP IS COMPLETE. CAUTIO N: KEEP SPILLS AND CLEANING
RUNOFF OUT OF MUNICIPAL SEWERS AND OPEN BODIES OR WATER.
Neutralizing Agent:NO DATA PROVIDED BY MANUFACTURER

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

Handling and Storage Precautions:STORE IN A COOL, DRY, WELL-VENTILATED
AREA AWAY FROM COMBUSTIBLE

MATERIALS. STORE AWAY FROM EXCESSIVE
HEAT (E.G. STEAM PIPES, RADIATORS) AND FROM SOURCES OF IGNITION.
THE MINIMUM RECOMMENDED STORAGE TEMPERATURE FOR THIS MATERIAL IS
20C: MAXIMUM STORAGE TEMPERATURE IS 30C.
Other Precautions:KEEP CONTAINERS TIGHTLY CLOSED.. AVOID CONTACT WITH
CLOTHING AND OTHER COMBUSTIBLE MATERIALS. THIS MATERIAL IS A SEVERE
IRRITANT.

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

Respiratory Protection:A RESPIRATORY PROTECTION PROGRAM
MEETING OSHA

1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER
WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE. NONE REQUIRED
UNDER NORMAL CONDITIONS. WHEN DUSTY CONDITIONS ARE ENCOUNTERED,
WEAR A MSHA/NIOSH APPROVED (OR EQUIVALENT) HALF-MASK WITH CHEMICAL
CARTRIDGE FOR PROTECTION AGAINST CHLORINE GAS AND (SUPP)

Ventilation:USE LOCAL EXHAUST VENTILATION, ESPECIALLY UNDER DUST
CONDITIONS, WITH A MINIMUM CAPTURE VELOCITY OF 150FT/MIN(0.75M/SEC)
AT THE POINT OF VAPOR EVOLUTION.

Protective Gloves:PVC GLOVES SHOULD BE WORN WHEN USING THIS SUBSTANCE.

Eye Protection:USE SAFETY GLASSES (ANSI Z87.1 OR APPROVED EQUIVALENT)
UNDER NORMAL CONDITIONS.

Other Protective Equipment:USE CHEMICALLY RESISTANT BODY COVERING
CLOTHES TO AVOID PROLONGED OR REPEATED SKIN CONTACT. SAFETY SHOWER
AND EYE BATH SHOULD BE PROVIDED. DO NOT EAT, DRINK OR SMOKE UNTIL
SHOWERING AND CHANGING CLOTHES

Work Hygienic Practices:GLOVES SHOULD BE REMOVED AND REPLACED

IMMEDIATELY IF THERE IS ANY INDICATION OF DEGRADATION OR CHEMICAL
BREAKTHROUGH. RINSE AND REMOVE GLOVES IMMEDIATELY AFTER USE. WASH
HANDS WITH SOAP AND WATER.

Supplemental Safety and Health

RESPIRATORY: A DUST/MIST PREFILTER, AND AIR-PURIFYING RESPIRATOR.

AIR-PURIFYING RESPIRATORS SHOULD BE EQUIPPED WITH MSHA/NIOSH
APPROVED (OR EQUIVALENT) CHEMICAL CARTRIDGE FOR PROTECTION AGAINST
HALOGEN GASES. *EYE: WEAR CHEMICAL SAFETY GOGGLES IF AIRBORNE
PARTICULATES ARE PRESENT.

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

HCC:D1

Melt/Freeze Pt:M.P/F.P Text:N/A DECOMPOSES

Decomp Temp:=160.C, 320.F

Vapor Pres:9.35 X 10(-3)PA

Spec Gravity:1.8-2.0

Evaporation Rate & Reference:N/A (ETHER=1)

Solubility in Water:0.2G/100ML

Appearance and Odor:WHITE TO OFF WHITE TABLET; FAINT HALOGEN ODOR

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

Stability Indicator/Materials to Avoid:YES

OXIDIZING AGENTS, COMBUSTIBLE ORGANIC MATERIALS,
BASES

Stability Condition to Avoid:AVOID TEMPERATURES ABOVE 160C/320F.

Hazardous Decomposition Products:HYDROGEN BROMIDE, BROMINE GAS, AND
HYDROGEN CHLORIDE

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

Toxicological Information:CARCINOGENICITY: NOT KNOWN TO BE
CARCINOGENIC. NOT INCLUDED IN NTP 8TH ANNUAL REPORT ON CARCINOGENS.
NOT CLASSIFIED BY IARC. ACUTE TOXICITY: INHALATION LC50 - 0.53
MG/L/4 HR (RAT). ORAL LD50 - 1500 MG /KG (RAT). DERMAL LD50 - >2000
MG/KG (RAT). IRRITATION - SEVERE IRRITANT (DERMAL-RABBIT).
SENSITIZER - MILD SENSITIZER (DERMAL - GUINEA PIG). CHRONIC
TOXICITY: NOT AVAILABLE. MUTAGENICITY: MUTAGENIC B Y AMES TEST.

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

Ecological:AQAUTIC TOXICITY: RAINBOW TROUT (96-HOUR LC50) - 0.4 MG/L
(STATIC). BLUEGILL SUNFISH (96-HR LC50)-0.46 MG/L (STATIC).
SHEEPSHEAD MINNOW (96-HOUR LC50)-1.6 MG/L (ACUTE FLOW THROUGH).
EASTERN OYSTER (96 -HOUR LC50
) -1.2 MG/L (ACUTE FLOW THROUH). MYAID
SHRIMP (96-HR LC50)- 1.9 MG/L (ACUTE FLOW THROUGH). DAPHNIA MAGNA
(48-HR LC50)- 0.75 MG/L 9STATIC). AVIAN TOXICITY: BOBWHITE QUAIL
(ACUTE ORAL LD50)- 18 39 MG/KG. BOBWHITE QUALI (DIETARY LC50) -
>5620 PPM. MALLARD DUCK (DIETARY LC50)- >5620 PPM.

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

Waste Disposal Methods:DISPOSE OF IN APPROVED LANDFILL SITE OR AN
APPROVED INCINERATOR. CRUSH AND BURY EMPTY CONTAINERS. AVOID

ACCESS
TO STREAMS, LAKE OR PONDS. OBSERVE ALL FEDERAL, STATE AND LOCAL
ENVIRONMENTAL REGULATIONS WHEN DISPOSING OF THIS MATERIAL.

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

Transport Information:DOT DESCRIPTION FROM HAZARDOUS MATERIAL TABLE 49
CFR 172.101: LAND (DOT): OXIDIZING SOLID, N.O.S., 5.1, UN1479,
PGII. LABEL: OXIDIZER (5.1). WATER (IMO): OXIDIZING SOLID, N.O.S.,
5.1, UN1479, PGII. LABEL: OXIDIZER (5.1). MARKING: MARINE
POLLUTANT (IM
DG CODE-PAGE 5163, AMDT 27-94). AIR (IATA/ICAO): CLASS
5.1. LABEL: OXIDIZER (5.1).

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

SARA Title III Information:SARA TITLE III SECTION 311/312
CATEGORIZATION (40CFR370): THIS PRODUCT IS CATEGORIZED AS AN
IMMEDIATE AND DELAYED HEALTH AND REACTIVITY PHYSICAL HAZARD. SARA
TITLE III SECTION 313 INFORMATION (40 CFR 372): THIS PRODUCT DOES
NOT CONTAIN A CHEMICAL WHICH IS LISTED IN SECTION 313 AT OR ABOVE
DE M
INIMUM CONCENTRATIONS.

Federal Regulatory Information:CERCLA INFORMATION: THIS MATERIAL HAS A
REPORTABLE QUANTITY UNDER CERCLA AND SARA TITLE III SECTION 304.
THIS MATERIAL'S HAZARDOUS WASTE NUMBER & REPORTABLE QUANTITY IS
LISTED BELOW. RELEASES OF THIS MATERIAL IN EXCESS OF ITS
REPORTABLE QUANTITY MUST BE REPORTED TO THE NATIONAL RESPONSE
CENTER AT 1-800-424-8802 AND TO THE APPROPRIATE STATE & LOCAL
EMERGENCY RESPONSE ORGANIZATIONS: IGNITABILITY, 10 00 LBS. WASTE
CL

CLASSIFICATION: THIS MATERIAL IS CLASSIFIED AS A RCRA HAZARDOUS
WASTE WITH THE CHARACTERISTIC OF IGNITABILITY, HAZARDOUS WASTE
NUMBER: D001.

State Regulatory Information:NO DATA PROVIDED BY MANUFACTURER

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

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