

MAY 26 1995

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ATTN: SAFETY DIRECTOR
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PURCHASING OFFICE
800 W MAIN ST
WHITEWATER WI 53190-1705

DATE: 05/17/95
CUST#: 2-097-94816
PO#: UNE53917

MATERIAL SAFETY DATA SHEET

----- PAGE 1

SECTION 1. ----- CHEMICAL IDENTIFICATION-----

PRODUCT #: H5882

NAME: HEXADECYLTRIMETHYLAMMONIUM BROMIDE

SECTION 2. ----- COMPOSITION/INFORMATION ON INGREDIENTS -----

CAS #: 57-09-0
MF: C19H42BR1N1

SYNONYMS

ACETOQUAT CTAB * BROMAT * CEE DEE * CENTIMIDE * CETAB * CETAROL *
CETAVLON * CETRIMIDE * CETRIMIDE BP * CETRIMONIUM BROMIDE *
CETYLAMINE * CETYLTRIMETHYLAMMONIUM BROMIDE * N-
CETYLTRIMETHYLAMMONIUM BROMIDE * CIRRASOL-DD * CTAB * CTAB *
CYCLOTON V * 1-HEXADECANAMINIUM, N, N, N-TRIMETHYL-, BROMIDE *
HEXADECYLTRIMETHYLAMMONIUM BROMIDE * N-HEXADECYLTRIMETHYLAMMONIUM
BROMIDE * N-HEXADECYL-N, N, N-TRIMETHYLAMMONIUM BROMIDE * (1-HEXADECYL)
TRIMETHYLAMMONIUM BROMIDE * LISSOLAMINE * LISSOLAMINE A * LISSOLAMINE
V * LISSOLAMIN V * MICOL * POLLACID * QUAMONIUM * SUTICIDE *
TRIMETHYLCETYLAMMONIUM BROMIDE * N, N, N-TRIMETHYL-1-HEXADECANAMINIUM
BROMIDE * TRIMETHYLHEXADECYLAMMONIUM BROMIDE *

SECTION 3. ----- HAZARDS IDENTIFICATION -----

LABEL PRECAUTIONARY STATEMENTS

CORROSIVE
CAUSES BURNS.
HARMFUL BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.
IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF
WATER AND SEEK MEDICAL ADVICE.
TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING.
WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE
PROTECTION.

SECTION 4. ----- FIRST-AID MEASURES-----

IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES OR SKIN WITH COPIOUS
AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED
CLOTHING AND SHOES.
ASSURE ADEQUATE FLUSHING OF THE EYES BY SEPARATING THE EYELIDS
WITH FINGERS.
IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL
RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.
IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS.
CALL A PHYSICIAN.

CONTINUED ON NEXT PAGE

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BIOCHEMICALS AND DIAGNOSTIC REAGENTS

M A T E R I A L S A F E T Y D A T A S H E E T

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WASH CONTAMINATED CLOTHING BEFORE REUSE.
DISCARD CONTAMINATED SHOES.

SECTION 5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA
CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM.
SPECIAL FIREFIGHTING PROCEDURES
WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO
PREVENT CONTACT WITH SKIN AND EYES.
UNUSUAL FIRE AND EXPLOSIONS HAZARDS
EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

SECTION 6. ACCIDENTAL RELEASE MEASURES

EVACUATE AREA.
WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY
RUBBER GLOVES.
COVER WITH DRY LIME OR SODA ASH, PICK UP, KEEP IN A CLOSED CONTAINER
AND HOLD FOR WASTE DISPOSAL.
VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

SECTION 7. HANDLING AND STORAGE

REFER TO SECTION 8.

SECTION 8. EXPOSURE CONTROL/PERSONAL PROTECTION

WEAR APPROPRIATE NIOSH/MSHA-APPROVED RESPIRATOR, CHEMICAL-RESISTANT
GLOVES, SAFETY GOGGLES, OTHER PROTECTIVE CLOTHING.
SAFETY SHOWER AND EYE BATH.
USE ONLY IN A CHEMICAL FUME HOOD.
FACESHIELD (8-INCH MINIMUM).
DO NOT BREATHE DUST.
DO NOT GET IN EYES, ON SKIN, ON CLOTHING.
AVOID PROLONGED OR REPEATED EXPOSURE.
READILY ABSORBED THROUGH SKIN.
WASH THOROUGHLY AFTER HANDLING.
CORROSIVE.
TOXIC.

CONTINUED ON NEXT PAGE

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KEEP TIGHTLY CLOSED.
 HYGROSCOPIC
 STORE IN A COOL DRY PLACE.

SECTION 9. ----- PHYSICAL AND CHEMICAL PROPERTIES -----

APPEARANCE AND ODOR
 WHITE POWDER
 MELTING POINT: >230 C (DEC)

SECTION 10. ----- STABILITY AND REACTIVITY -----

INCOMPATIBILITIES
 STRONG OXIDIZING AGENTS
 PROTECT FROM MOISTURE.
 HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS
 TOXIC FUMES OF:
 CARBON MONOXIDE, CARBON DIOXIDE
 NITROGEN OXIDES
 HYDROGEN BROMIDE GAS

SECTION 11. ----- TOXICOLOGICAL INFORMATION -----

ACUTE EFFECTS
 HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN.
 MATERIAL IS EXTREMELY DESTRUCTIVE TO TISSUE OF THE MUCOUS MEMBRANES
 AND UPPER RESPIRATORY TRACT, EYES AND SKIN.
 INHALATION MAY BE FATAL AS A RESULT OF SPASM, INFLAMMATION AND EDEMA
 OF THE LARYNX AND BRONCHI, CHEMICAL PNEUMONITIS AND PULMONARY EDEMA.
 SYMPTOMS OF EXPOSURE MAY INCLUDE BURNING SENSATION, COUGHING,
 WHEEZING, LARYNGITIS, SHORTNESS OF BREATH, HEADACHE, NAUSEA AND
 VOMITING.

TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND
 TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

RTECS NO: BQ7875000
 AMMONIUM, HEXADECYLTRIMETHYL-, BROMIDE

IRRITATION DATA
 SKN-MUS 50 MG/1H OPEN
 EYE-RBT 450 MG SEV
 TOXICITY DATA

BJDEAZ 86,361,72
 ARDPAW 40,668,48

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ORL-RAT LD50:410 MG/KG
IVN-RAT LD50:44 MG/KG
IPR-MUS LD50:106 MG/KG
IVN-MUS LD50:32 MG/KG
IPR-RBT LD50:125 MG/KG
SCU-RBT LD50:125 MG/KG
SCU-GPG LD50:100 MG/KG

YKYUAG 31,471,80
APTOAG 47,17,80
FCTXAV 13,331,75
APTOAG 47,17,80
PCOC** -,210,66
PCOC** -,210,66
28ZEAL 5,40,76

TARGET ORGAN DATA
BEHAVIORAL (CONVULSIONS OR EFFECT ON SEIZURE THRESHOLD)
LUNGS, THORAX OR RESPIRATION (RESPIRATORY DEPRESSION)
LUNGS, THORAX OR RESPIRATION (OTHER CHANGES)
EFFECTS ON FERTILITY (POST-IMPLANTATION MORTALITY)
EFFECTS ON EMBRYO OR FETUS (FETOTOXICITY)
SPECIFIC DEVELOPMENTAL ABNORMALITIES (CRANIOFACIAL)
SPECIFIC DEVELOPMENTAL ABNORMALITIES (MUSCULOSKELETAL SYSTEM)
ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES
(RTECS) DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR
COMPLETE INFORMATION.

SECTION 12. ----- ECOLOGICAL INFORMATION -----
DATA NOT YET AVAILABLE.

SECTION 13. ----- DISPOSAL CONSIDERATIONS -----
DISSOLVE OR MIX THE MATERIAL WITH A COMBUSTIBLE SOLVENT AND BURN IN A
CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER.
OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

SECTION 14. ----- TRANSPORT INFORMATION -----
CONTACT SIGMA CHEMICAL COMPANY FOR TRANSPORTATION INFORMATION.

SECTION 15. ----- REGULATORY INFORMATION -----
REVIEWS, STANDARDS, AND REGULATIONS
NUES 1983; HZD T1981; NIS 3; TNF 373; NOS 4; TNE 4695; TFE 2068
EPA TSCA CHEMICAL INVENTORY, JUNE 1993

SECTION 16. ----- OTHER INFORMATION -----

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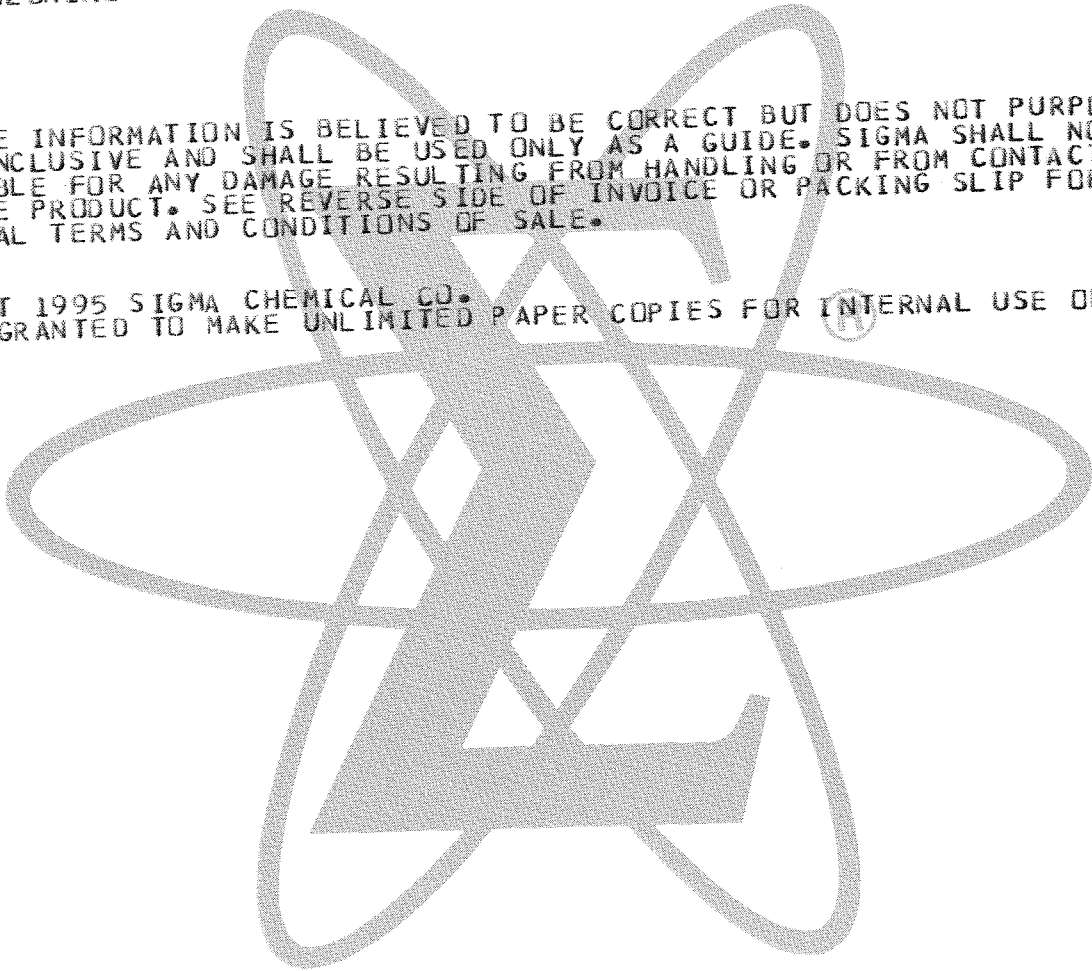
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