MATERIAL SAFETY DATA SHEET

SECTION 1. --- --- --- --- CHEMICAL IDENTIFICATION--- --- --- --- ---
NAME: HEXADECYLTRIMETHYLLAMMONIUM BROMIDE

SECTION 2. --- --- --- COMPOSITION/INFORMATION ON INGREDIENTS --- --- --- ---
CAS #: 57-09-0
MF: C19H42BrN1
SYNONYMS: ACETOQUAT CTAB * BROMAT* CEE OEE * CENTHIDINE * CETAB * CETAROL *
CETAVLON * CETRIMIDE * CETRIMIDE BP * CETRIMIONUM BROMIDE *
CETYLAMINE * CETYLTRIMETHYLLAMMONIUM BROMIDE * N *
CETYLTRIMETHYLLAMMONIUM BROMIDE * CIKASUL-DO * CTA * CTHAB *
CYCLOTUN V * 1-HEXADECANAMINIO, N,N,N-TRIMETHYL-, BROMIDE *
EXHADECYLTRIMETHYLLAMMONIUM BROMIDE * N-HEXADECYLTRIMETHYLLAMMONIUM BROMIDE * N-HEXADECYL-N,N,N-TRIMETHYLLAMMONIUM BROMIDE * (1-HEDACRYL)
TRIMETHYLCETYLAMMONIUM BROMIDE * N,N,N-TRIMETHYL-1-HEDACANAMINIO BROMIDE * TRIMETHYLBDECAYLAMMONIUM 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
PRODUCT #: H5326
MF: CI9H42BR1N1

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 SAFE DISPOSAL.
VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

SECTION 7. - - - - - - - HANDLING AND STORAGE - - - - - - -

REFER TO SECTION 8.

SECTION 8. - - - - - - - EXPOSURE CONTROLS/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.
FACE SHIELD (8-INCH MINIMUM).
DO NOT BREATHE DUST.
DO NOT GET IN EYES, ON SKIN, OR CLOTHING.
AVOID PROLONGED OR REPEATED EXPOSURE.
READILY ABSORBED THROUGH SKIN.
WASH THOROUGHLY AFTER HANDLING.
CORROSIVE.

TOXIC.

CONTINUED ON NEXT PAGE
PRODUCT #: HSF882
MF #: C19H42Br1N1
NAME: HEXADECYLTRIMETHYLAMMONIUM BROMIDE

KEEP TIGHTLY CLOSED. HYDROSCOPIC. 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.

RTECS ND: BQ7875500
AMMONIUM, HEXADECYLTRIMETHYL-, BROMIDE

IRRITATION DATA
SKIN: MIS 50 MG/1H OPEN EYE: R8 450 MG SEV
TOXICITY DATA

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MATERIAL SAFETY DATA SHEET

CUST#: 2-097-94816
PO#: UNE53917

PRODUCT #: H5882
MF #: C19H42BrIN1

NAME: HEXADECYLTRIMETHYLLAMMONIUM BROMIDE

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

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

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.

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

SECTION 15. REGULATORY INFORMATION

REVIEWS, STANDARDS, AND REGULATIONS
NUES 1993; HZO 1981; NIS 3; INF 373; NOS 4; TNE 495; TFE 2068
EPA TSCA CHEMICAL INVENTORY, JUNE 1993

SECTION 16. OTHER INFORMATION
CONTINUED ON NEXT PAGE
MATERIAL SAFETY DATA SHEET

PRODUCT #: H5882
MF #: C19H42Br1N1

NAME: HEXADECYLTRIMETHYLLAMMONIUM BROXIDE

CUST#: 2-097-94816
PO#: UNE53917

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