
MATERIAL SAFETY DATA SHEET

HELENA LABORATORIES
1530 Lindbergh Dr./P.O. Box 752
Beaumont, TX 77704-0752
USA Toll Free 800-231-5663

DATE PREPARED: 4/16/2001
REVISION: 2

1. IDENTIFICATION:

PRODUCT NAME: REP TEMPLATE SPE-16 KIT

PRODUCT NO.: 3161

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2. INGREDIENTS (THE ABOVE KIT CONTAINS THE FOLLOWING ITEMS):

Table with 4 columns: PRODUCT NUMBER, PRODUCT IDENTIFICATION (LABEL NAME), HAZARDOUS INGREDIENT, CAS #, %, COMMENTS. Contains entries for PONCEAU S STAIN and REP SPE-16 TEMPLATE (Ponceau) GEL.

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ATTACHED IS THE MSDS FOR THE ABOVE NAMED HAZARDOUS INGREDIENT.

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DATE PREPARED: 1/17/92
REVISION: 2

1. IDENTIFICATION:

NAME: BARBITAL

CAS #: 57-44-3

MOLECULAR WEIGHT: 184.22
MOLECULAR FORMULA: C8H12N2O3

CHEMICAL NAMES: 2,4,6(1H,3H,5H)-PYRIMIDENETRIONE, 5,5-DIETHYL- *
5,5-DIETHYLBARBITURIC ACID

SYNONYMS: DIETHYLBARBITONE * DIETHYLMALONYLUREA * BARBITONE * VERONAL
* SEDEVAL

2. HAZARDOUS INGREDIENTS:

Table with 3 columns: CHEMICAL NAME/COMMON NAME, CAS #, EXPOSURE LIMITS (OSHA PEL, ACGIH TLV). Row 1: BARBITAL, 57-44-3, 100.0, NA.

3. PHYSICAL DATA:

BOILING POINT: NA SPECIFIC GRAVITY (H2O = 1): NIF
VAPOR PRESSURE (MM HG.): NA MELTING POINT: 188-192°C
VAPOR DENSITY (AIR = 1): NA SOLUBILITY IN WATER: SLIGHTLY SOLUBLE

APPEARANCE AND ODOR: WHITE CRYSTALLINE POWDER OR COLORLESS CRYSTALS

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NA = Not Applicable NE = Not Established
NL = Not Listed NIF = No Information Found

4. HEALTH HAZARD DATA:

PRIMARY ROUTE(S) OF ENTRY:

INHALATION? YES SKIN? YES INGESTION? YES

OSHA REGULATED? NA

CARCINOGENICITY: NTP? NA IARC? NA

ACUTE EFFECTS OF OVEREXPOSURE: EXPOSURE TO THE EYES, SKIN, INHALATION AND INGESTION MAY CAUSE DROWSINESS, LETHARGY, SKIN ERUPTIONS, NAUSEA AND VOMITING. LARGE DOSES CAUSE MARKED DEPRESSION (SOMETIMES PRECEDED BY EXCITATION), COMA AND DEATH.

CHRONIC EFFECTS OF EXPOSURE: NIF

TOXICITY DATA: ORAL HUMAN TDLO 4 MG/KG-PSYCHOTROPIC EFFECTS; ORAL CAT LDLO 280 MG/KG; ORAL RABBIT LDLO 275 MG/KG; SUBCUTANEOUS RAT LD50 450 MG/KG; SUBCUTANEOUS MOUSE LD50 630 MG/KG; SUBCUTANEOUS RABBIT LDLO 250 MG/KG; INTRAPERITONEAL RAT LDLO 300 MG/KG; INTRAPERITONEAL MOUSE LD50 500 MG/KG; INTRAPERITONEAL RABBIT LDLO 225 MG/KG; INTRAVENOUS RABBIT LDLO 350 MG/KG; INTRAVENOUS CHICKEN LDLO 225 MG/KG; CYTOGENETIC ANALYSIS MOUSE ORAL 33 G/KG; CYTOGENETIC ANALYSIS HAMSTER FIBROBLAST 2 G/L/48H

MODERATELY TOXIC BY INTRAPERITONEAL AND SUBCUTANEOUS ADMINISTRATION. CAN CAUSE PSYCHOTROPIC EFFECTS IN HUMANS VIA ORAL ADMINISTRATION.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: BARBITAL EFFECTS MAY BE INTENSIFIED BY PRESENCE OF OTHER DRUGS.

EMERGENCY AND FIRST AID PROCEDURES:

EYE CONTACT: IN CASE OF CONTACT, FLUSH EYES WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. CALL A PHYSICIAN.

SKIN CONTACT: IN CASE OF CONTACT, IMMEDIATELY WASH SKIN WITH SOAP AND COPIOUS AMOUNTS OF WATER FOR 15 MINUTES. CALL A PHYSICIAN.

INHALATION: KEEP AIR PASSAGES OPEN; PREVENT ASPIRATION. GIVE ARTIFICIAL RESPIRATION OR OXYGEN. CALL A PHYSICIAN.

INGESTION: IF CONSCIOUS, INDUCE VOMITING BY IPECAC SYRUP OR TWO GLASSES OF WARM WATER OR DILUTE MILK FOLLOWED BY TICKLING THE BACK OF THE THROAT WITH A TONGUE DEPRESSOR. AFTER VOMITING STOPS, GIVE PATIENT ONE OR TWO TABLESPOONFULS OF ACTIVATED CHARCOAL IN A GLASS OF WATER. CALL A PHYSICIAN.

5. FIRE AND EXPLOSION HAZARD DATA:

MSDS: BARBITAL

FLASH POINT (METHOD USE): NA

FLAMMABLE LIMITS: LEL NE UEL NE

EXTINGUISHING MEDIA: FOAM, FOG, WATER SPRAY, CARBON DIOXIDE, DRY CHEMICAL

SPECIAL FIRE FIGHTING PROCEDURES: ISOLATE HAZARD AND EVACUATE CONFINED AREAS. STAY UPWIND; AVOID SMOKE AND FUMES. USE WATER SPRAY TO WET CONTAINERS. IF SMOKE AND FUMES CANNOT BE AVOIDED, WEAR A CHEMICAL-PROOF SUIT WITH HOOD AND BREATHING AIR SUPPLY. FIGHT FIRE FROM MAXIMUM DISTANCE.

UNUSUAL FIRE AND EXPLOSION HAZARDS: NA

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6. REACTIVITY DATA:

STABILITY: UNSTABLE: STABLE: X

INCOMPATIBILITY (MATERIALS TO AVOID): NA

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: WHEN HEATED TO DECOMPOSITION, TOXIC FUMES SUCH AS NITROGEN OXIDES ARE EMITTED.

HAZARDOUS POLYMERIZATION:

MAY OCCUR: WILL NOT OCCUR: X

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7. SPILL OR LEAK PROCEDURES:

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: SHOVEL LARGE QUANTITIES OF SPILLED MATERIAL INTO DRUMS. SWEEP UP THE SPILL AREA AND SAVE THE MATERIAL FOR RECOVERY. FLUSH THE SPILL AREA WITH DETERGENT AND WATER.

WASTE DISPOSAL METHODS: OBSERVE ALL FEDERAL, STATE AND LOCAL REGULATIONS.

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8. SPECIAL PROTECTION INFORMATION:

RESPIRATORY PROTECTION (SPECIFY TYPE): DUST RESPIRATOR

VENTILATION: LOCAL EXHAUST: X MECHANICAL: OTHER:

PROTECTIVE GLOVES: YES

8. SPECIAL PROTECTION INFORMATION (CONT)

EYE PROTECTION: YES

OTHER PROTECTIVE EQUIPMENT: NA

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9. SPECIAL PRECAUTIONS:

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: AVOID BREATHING DUST. AVOID CONTACT WITH EYE AND SKIN. WASH THOROUGHLY AFTER HANDLING.

OTHER PRECAUTIONS: NA

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10. OTHER INFORMATION: NA

The information herein is given in good faith but no warranty, expressed or implied, is made.

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DATE PREPARED: 1/23/1992
REVISION: 1

1. IDENTIFICATION:

NAME: PONCEAU S

CAS #: 6226-79-5

MOLECULAR FORMULA: C22H16N4O13S4

SYNONYMS:

C.I. ACID RED 112 * C.I. ACID RED 112, TETRASODIUM SALT (8CI) *
PONCEAU RED S * PONCEAU S * PONCEAU S EXTRA *

2. HAZARDOUS INGREDIENTS:

Table with 4 columns: CHEMICAL NAME/COMMON NAME, CAS #, %, EXPOSURE LIMITS (OSHA PEL, ACGIH TLV). Row 1: PONCEAU S, 6226-79-5, 100.0, NA, NA.

3. PHYSICAL DATA:

BOILING POINT: NA SPECIFIC GRAVITY (H2O=1): NIF

VAPOR PRESSURE (MM HG.): NA MELTING POINT: NIF

VAPOR DENSITY (AIR=1): NA

SOLUBILITY IN WATER: YES APPEARANCE AND ODOR: BROWN POWDER

=====

NA = Not Applicable NE = Not Established
NL = Not Listed NIF = No Information Found

4. HEALTH HAZARD DATA:

PRIMARY ROUTE(S) OF ENTRY:

INHALATION? YES SKIN? YES INGESTION? YES

CARCINOGENICITY: NTP? NO IARC? NO

ACUTE EFFECTS OF OVEREXPOSURE:

EYES: CAUSES EYE IRRITATION.

SKIN: MAY BE HARMFUL IF ABSORBED THROUGH THE SKIN. CAUSES SKIN IRRITATION.

INHALATION: MAY BE HARMFUL IF INHALED. MATERIAL IS IRRITATING TO UPPER RESPIRATORY TRACT.

INGESTION: MAY BE HARMFUL IF INGESTED. MATERIAL IS IRRITATING TO THE MUCOUS MEMBRANES.

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

TOXICITY DATA: NIF

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: NIF

EMERGENCY AND FIRST AID PROCEDURES:

EYE CONTACT: IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. CALL A PHYSICIAN.

SKIN CONTACT: IN CASE OF CONTACT, IMMEDIATELY WASH SKIN WITH SOAP AND COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. CALL A PHYSICIAN.

INHALATION: IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CALL A PHYSICIAN.

INGESTION IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS. CALL A PHYSICIAN.

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5. FIRE AND EXPLOSION HAZARD DATA:

FLASH POINT (METHOD USED): NA

FLAMMABLE LIMITS: LEL NA UEL NA

EXTINGUISHING MEDIA: WATER SPRAY. CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM.

SPECIAL FIRE FIGHTING PROCEDURES: WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.

UNUSUAL FIRE AND EXPLOSION HAZARDS: EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

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6. REACTIVITY DATA:

STABILITY: UNSTABLE: STABLE: X

INCOMPATIBILITY (MATERIALS TO AVOID): STRONG OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: TOXIC FUMES OF CARBON MONOXIDE, CARBON DIOXIDE, NITROGEN OXIDES AND SULFUR OXIDES.

HAZARDOUS POLYMERIZATION:
MAY OCCUR: WILL NOT OCCUR: X

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7. SPILL OR LEAK PROCEDURES:

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: WEAR RESPIRATOR, CHEMICAL SAFETY GOGGLES, RUBBER BOOTS AND HEAVY RUBBER GLOVES. SWEEP UP, PLACE IN A BAG AND HOLD FOR WASTE DISPOSAL. AVOID RAISING DUST. VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

WASTE DISPOSAL METHODS: OBSERVE ALL FEDERAL, STATE AND LOCAL REGULATIONS.

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8. SPECIAL PROTECTION INFORMATION:

RESPIRATORY PROTECTION (SPECIFY TYPE): NIOSH/MSHA-APPROVED

VENTILATION: LOCAL EXHAUST: MECHANICAL: X
OTHER:

PROTECTIVE GLOVES: COMPATIBLE CHEMICAL-RESISTANT

EYE PROTECTION: CHEMICAL SAFETY GOGGLES

OTHER PROTECTIVE EQUIPMENT: SAFETY SHOWER AND EYE BATH.

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9. SPECIAL PRECAUTIONS:

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: DO NOT BREATH DUST.
AVOID CONTACT WITH EYES, SKIN AND CLOTHING. WASH THOROUGHLY
AFTER HANDLING. KEEP TIGHTLY CLOSED. STORE IN A COOL DRY PLACE.

OTHER PRECAUTIONS:

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10. OTHER INFORMATION:

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expressed or implied, is made.