
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: 7/11/2003
REVISION: 5

1. IDENTIFICATION:

PRODUCT NAME: REP SPE-16 TEMPLATE KIT

PRODUCT NO: 3171

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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. Rows include ACID BLUE STAIN and REP SPE-16 TEMPLATE GEL.

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ATTACHED IS THE MSDS FOR THE ABOVE NAMED HAZARDOUS INGREDIENT.

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DATE PREPARED: 10/1/1992
REVISION: 2

1. IDENTIFICATION:

NAME: ACID BLUE 29

CAS #: 5850-35-1

MOLECULAR FORMULA: C22H16N6O9S2

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2. HAZARDOUS INGREDIENTS:

Table with 3 columns: CHEMICAL NAME/COMMON NAME, CAS #, EXPOSURE LIMITS (OSHA PEL, ACGIH TLV). Row 1: ACID BLUE 29, 5850-35-1, NA.

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3. PHYSICAL DATA:

BOILING POINT: NA SPECIFIC GRAVITY (H2O = 1): NA
VAPOR PRESSURE (MM HG.): NA MELTING POINT: NIF
VAPOR DENSITY (AIR = 1): NA SOLUBILITY IN WATER: YES
APPEARANCE AND ODOR: BLACK POWDER

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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

CARCINOGENICITY: NTP? NO IARC? NO

ACUTE EFFECTS OF OVEREXPOSURE:

EYES: MAY CAUSE IRRITATION.

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

INHALATION: MAY BE HARMFUL IF INHALED. MAY CAUSE IRRITATION.

INGESTION: MAY BE HARMFUL IF SWALLOWED. MAY CAUSE IRRITATION.

CHRONIC EFFECTS OF EXPOSURE: THE TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

TOXICITY DATA: NO DATA AVAILABLE.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: NIF

EMERGENCY AND FIRST AID PROCEDURES:

EYE CONTACT: IN CASE OF EYE CONTACT, FLUSH WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. ASSURE ADEQUATE FLUSHING BY SEPARATING THE EYELIDS WITH FINGERS. CALL A PHYSICIAN.

SKIN CONTACT: IN CASE OF SKIN CONTACT, FLUSH WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND SHOES. CALL A PHYSICIAN.

INHALATION: IF INHALED, REMOVE TO FRESH AIR. IF BREATHING BECOMES DIFFICULT, 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:

FLASHPOINT (METHOD USE): NA

FLAMMABLE LIMITS: NA LEL NA UEL NA

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

5. FIRE AND EXPLOSION HAZARD (CONT):

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): NIF

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: CARBON MONOXIDE, CARBON DIOXIDE, NITROGEN OXIDES, 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 PROTECTIVE EQUIPMENT. SWEEP UP, PLACE IN A BAG AND HOLD FOR WASTE DISPOSAL. AVOID RAISING DUST.

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

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8. SPECIAL PROTECTION INFORMATION:

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

VENTILATION: LOCAL EXHAUST: MECHANICAL: REQUIRED
OTHER:

PROTECTIVE GLOVES: CHEMICAL RESISTANT

EYE PROTECTION: SAFETY GOGGLES

OTHER PROTECTIVE EQUIPMENT: OTHER PROTECTIVE CLOTHING

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9. SPECIAL PRECAUTIONS:

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: NIF

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: 5/31/2002
 REVISION: 3

1. IDENTIFICATION:

NAME: THIMEROSAL

CAS #: 54-64-8

MOLECULAR FORMULA: C9H10HG02S

SYNONYMS: ((O-CARBOXYPHENYL) THIO) ETHYLMERCURY SODIUM SALT * ELCIDE 75
 * ELCIDE * ETHYL (2-MERCAPTOBENZOATO-S) MERCURY SODIUM SALT * O-
 (ETHYLMERCURITHIO) BENZOIC ACID SODIUM SALT * ETHYLMERCURITHIOSALICYLIC
 ACID SODIUM SALT * ETHYLMERKURITHIOSALICILAN SODNY (CZECH) * ETHYL
 (SODIUM O-MERCAPTOBENZOATO) MERCURY * MERCUROTHIOLATE * MERCURY,
 ETHYL (2-MERCAPTOBENZOATE-S) -, SODIUM SALT * MERFAMIN * MERTHIOLATE *
 MERTHIOLATE SALT * MERTHIOLATE SODIUM * MERTORGAN * MERZONIN *
 MERZONIN SODIUM * MERZONIN, SODIUM SALT * SET * SODIUM ETHYLMERCURIC
 THIOSALICYLATE * SODIUM O-(ETHYLMERCURITHIO) BENZOATE * SODIUM
 ETHYLMERCURITHIOSALCYLATE * SODIUM MERTHIOLATE * THIMEROSAL *
 THIMEROSALATE * THIMEROSOL * THIMERSALATE * THIOMEROSAL * THIOMERSAL *
 THIOMERSALATE *

2. HAZARDOUS INGREDIENTS:

CHEMICAL NAME/COMMON NAME	%	EXPOSURE LIMITS			
		CAS #	OSHA PEL	ACGIH TLV	
THIMEROSAL 54-64-8	100.0	0.1MG (HG) /M3	0.1MG (HG) /M3		SKIN

NA = Not Applicable
 NL = Not Listed

NE = Not Established
 NIF = No Information Found

3. PHYSICAL DATA:

BOILING POINT: NIF SPECIFIC GRAVITY (H2O = 1): NIF
VAPOR PRESSURE (MM HG.): NIF MELTING POINT: 232°C TO 233°C (DEC)
VAPOR DENSITY (AIR = 1): NA SOLUBILITY IN WATER: SOLUBLE
APPEARANCE AND ODOR: WHITE POWDER

4. HEALTH HAZARD DATA:

PRIMARY ROUTE(S) OF ENTRY:
INHALATION? YES SKIN? YES INGESTION? YES
OSHA REGULATED? NA
CARCINOGENICITY: NTP? NA IARC? NA
ACUTE EFFECT OF OVEREXPOSURE: MAY CAUSE NERVOUS SYSTEM DISTURBANCES.
EYES: CAUSES EYE IRRITATION.
SKIN: MAY BE FATAL IF ABSORBED THROUGH THE SKIN. CAUSES SKIN IRRITATION.
INHALATION: MAY BE FATAL IF INHALED. MATERIAL IS IRRITATING TO UPPER RESPIRATORY TRACT.
INGESTION: MAY BE FATAL IF SWALLOWED. MATERIAL IS IRRITATING TO MUCOUS MEMBRANES.
CHRONIC EFFECTS OF EXPOSURE: LABORATORY EXPERIMENTS HAVE SHOWN MUTAGENIC EFFECTS, TARGET ORGANS: KIDNEYS, CENTRAL NERVOUS SYSTEM.

TOXICITY DATA:

RTECS NO.: OV8400000

Table with 2 columns: Test Name and Value. Rows include IAL-CHD LDLO 60 MG/KG/4W-I, JOPDAB 104,311,84; ORL-RAT LD50 75 MG/KG, PCOC** -,1130,66; SCU-RAT LD50 98 MG/KG, CTOXAO 4,185,71; UNR-RAT LD50 40 MG/KG, 30ZDA9 -,290,71; ORL-MUS LD50 91 MG/KG, NYKZAU 58,235,62; IPR-MUS LD50 54 MG/KG, NYKZAU 58,235,62; SCU-MUS LD50 66 MG/KG, QJPPAL 12,212,39; IVN-MUS LD50 45 MG/KG, QJPPAL 12,212,39

IRRITATION DATA

EYE-RBT 8 UG MLD AJOPAA 78,98,74

4. HEALTH HAZARD DATA (CONT):

TARGET ORGAN DATA

- BEHAVIORAL (ATAXIA)
- GASTROINTESTINAL (NAUSEA OR VOMITING)
- KIDNEY, URETER, BLADDER (CHANGES IN TUBULES)
- EFFECTS ON FERTILITY (POST-IMPLANTATION MORTALITY)
- EFFECTS ON FERTILITY (ABORTION)
- EFFECTS ON EMBRYO OR FETUS (FETAL DEATH)
- TUMORIGENIC EFFECTS (UTERINE TUMORS)
- NUTRITIONAL AND GROSS METABOLIC (CHANGES IN: METABOLIC ACIDOSIS)
- TUMORIGENIC (NEOPLASTIC BY RTECS CRITERIA)
- TUMORIGENIC (TUMORS AT SITE OF APPLICATION)

ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES (RTECS) DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR COMPLETE INFORMATION.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: NA

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 IMMEDIATELY.
- SKIN CONTACT: IN CASE OF CONTACT, IMMEDIATELY FLUSH SKIN WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES.
- INHALATION: IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CALL A PHYSICIAN IMMEDIATELY.
- INGESTION: IF SWALLOWED, WASH OUT MOUTH WITH WATER, PROVIDED PERSON IS CONSCIOUS. CALL A PHYSICIAN IMMEDIATELY.

5. FIRE AND EXPLOSION HAZARD DATA:

FLASH POINT (METHOD USED): > 482°F (> 250°C)

FLAMMABLE LIMITS: NA 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.

5. FIRE AND EXPLOSION HAZARD DATA (CONT):

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

6. REACTIVITY DATA:

STABILITY: UNSTABLE:STABLE: X

INCOMPATIBILITY (MATERIALS TO AVOID): STRONG OXIDIZING AGENTS, STRONG ACIDS, STRONG BASES. MAY DISCOLOR ON EXPOSURE TO LIGHT.

HAZARDOUS DECOMPOSITION OF BY-PRODUCTS: TOXIC FUMES OF CARBON MONOXIDE, CARBON DIOXIDE, SULFUR OXIDES, MERCURY/MERCURY OXIDES.

HAZARDOUS POLYMERIZATION: MAY OCCUR: WILL NOT OCCUR: X

7. SPILL OR LEAK PROCEDURES:

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: WEAR SELF-CONTAINED BREATHING APPARATUS, 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 COMPLETED.

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

8. SPECIAL PROTECTION INFORMATION:

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

VENTILATION: LOCAL EXHAUST: MECHANICAL: OTHER: CHEMICAL FUME HOOD

PROTECTIVE GLOVES: CHEMICAL RESISTANT

EYE PROTECTION: SAFETY GOGGLES

OTHER PROTECTIVE EQUIPMENT: OTHER PROTECTIVE CLOTHING, SAFETY SHOWER AND EYE BATH.

9. SPECIAL PRECAUTIONS:

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: DO NOT BREATHE DUST. AVOID CONTACT WITH EYES, SKIN AND CLOTHING, AVOID PROLONGED OR REPEATED EXPOSURE. WASH THOROUGHLY AFTER HANDLING. KEEP TIGHTLY CLOSED. LIGHT SENSITIVE. STORE IN A COOL DRY PLACE.

9. SPECIAL PRECAUTIONS (CONT):

OTHER PRECAUTIONS: WASH CONTAMINATED CLOTHING BEFORE USE.

10. OTHER INFORMATION:

POSSIBLE ALLERGIC REACTION TO DUST IF INHALED, INGESTED OR IN CONTACT WITH SKIN. HYPERSENSITIVITY REACTIONS MANIFESTED BY ERYTHEMA, PAPULAR OR VESICULAR ERUPTIONS OCCUR OCCASIONALLY. ALLERGIC CONJUNCTIVITIS HAS BEEN REPORTED. THIS PRODUCT IS SUBJECT TO SARA SECTION 313 REPORTING REQUIREMENTS.

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