
MATERIAL SAFETY DATA SHEET

HELENA LABORATORIES
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USA Toll Free 800-231-5663

DATE PREPARED: 9/10/2010
REVISION: 2

1. IDENTIFICATION:

PRODUCT NAME: SPIFE 4000 ANTISERA TEMPLATE TREATMENT

PRODUCT NO: 2306

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

Table with 4 columns: PRODUCT NUMBER, PRODUCT IDENTIFICATION (LABEL NAME), COMMENTS, and an unlabeled column for percentages. Row 1: TWEEN 20, 9005-64-5, 100, MSDS ATTACHED.

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ATTACHED IS THE MSDS FOR THE ABOVE NAMED HAZARDOUS INGREDIENT.

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1. IDENTIFICATION:

NAME: TWEEN 20
CAS #: 9005-64-5

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2. CHEMICAL COMPOSITION:

Table with 5 columns: CHEMICAL NAME/COMMON NAME, CAS #, %, EXPOSURE LIMITS (OSHA PEL, ACGIH TLV). Rows include POLYOXYETHYLENE (20) and SORBITAN MONOLAUATE.

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

3. HAZARD IDENTIFICATION:

EMERGENCY OVERVIEW:

PRIMARY ROUTE(S) OF ENTRY:

INHALATION? X SKIN? INGESTION?

EYES: NO IRRITATION IS LIKELY TO DEVELOP FOLLOWING CONTACT WITH HUMAN EYES.

NO IRRITATION IS LIKELY TO DEVELOP FOLLOWING CONTACT WITH HUMAN SKIN. THIS PRODUCT WILL PROBABLY NOT BE ABSORBED THROUGH HUMAN SKIN.

NO IRRITATION IS EXPECTED TO BE ASSOCIATED WITH INHALATION OF THIS MATERIAL.

LOW ORAL TOXICITY, BUT INGESTION MAY CAUSE IRRITATION OF THE GASTROINTESTINAL TRACT.

CHRONIC EFFECTS OF EXPOSURE:

4. FIRST AID MEASURES:

EYE CONTACT: AMOUNTS OF WATER FOR AT LEAST 15 MINUTES.

IN CASE OF CONTACT, IMMEDIATELY WASH SKIN WITH SOAP AND COPIOUS AMOUNTS OF WATER.

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. DO NOT INDUCE VOMITING.

5. FIRE AND EXPLOSION HAZARD DATA:

FLASH POINT (METHOD USED): >= 149°C

FLAMMABLE LIMITS: NO DATA LEL UEL

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

SPECIAL FIRE FIGHTING PROCEDURES: A SELF CONTAINED BREATHING APPARATUS AND SUITABLE PROTECTIVE CLOTHING MUST BE WORN IN FIRE CONDITIONS.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

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6. SPILL OR LEAK PROCEDURES:

CONTAIN SPILL.
SOAK UP MATERIAL WITH ABSORBENT AND SHOVEL INTO A CHEMICAL WASTE CONTAINER.

7. HANDLING AND STORAGE:

NORMAL PRECAUTIONS SHOULD BE OBSERVED AS FOR HANDLING ALL CHEMICALS.
PREVENT EYE CONTACT.
DO NOT SWALLOW.
STORE IN ORIGINAL CONTAINERS.

8. EXPOSURE CONTROL/PERSONAL PROTECTION:

NIOSH-MSHA-APPROVED

VENTILATION: LOCAL EXHAUST: MECHANICAL: X
OTHER:

PROTECTIVE GLOVES: COMPATIBLE CHEMICAL RESISTANT GLOVES.

EYE PROTECTION: CHEMICAL SAFETY GOGGLES.

OTHER PROTECTIVE EQUIPMENT:

BOILING POINT: _ 100°C pH: 20 = 1):

VAPOR PRESSURE (MM HG.): <1 MELTING POINT: -7°C

VAPOR DENSITY (AIR = 1): NIF

SOLUBILITY IN WATER: APPEARANCE AND ODOR:
LIQUID

10. STABILITY AND REACTIVITY:

X

STRONG OXIDIZING AGENTS.

-PRODUCTS:

HAZARDOUS POLYMERIZATION:
MAY OCCUR: WILL NOT OCCUR:

11. TOXICOLOGICAL INFORMATION:

50/LC50: _ 38.9 g/kg

REPRODUCTIVE TOXICITY:

IRRITANCY, SENSITIVITY:

CARCINOGENICITY: NTP? IARC? OSHA?

POTENTIAL HEALTH EFFECTS:

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2. ECOLOGICAL INFORMATION:

BIODEGRADABILITY: 37%

13. DISPOSAL CONSIDERATIONS:

14. TRANSPORTATION INFORMATION:

15. REGULATORY INFORMATION:

16. OTHER INFORMATION:

HEALTH = 0 FLAMMABILITY = 1 INSTABILITY = 0

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