SAFETY DATA SHEETS

This SDS packet was issued with item:

078346892

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

078346884



Merck Animal Health One Merck Dr. Whitehouse Station, NJ 08889

MATERIAL SAFETY DATA SHEET

Merck Animal Health urges each user or recipient of this MSDS to read the entire data sheet to become aware of the hazards associated with this material.

SECTION 1. IDENTIFICATION OF SUBSTANCE AND CONTACT INFORMATION

MSDS NAME: Piliguard Pinkeye 3

SYNONYM(S): Piliguard Pinkeye Tri-Valent

Piliguard Pinkeye-1 Trivalent
Piliguard Pinkeye-1 TRV

MSDS NUMBER: SP001595

EMERGENCY NUMBER(S): (908) 423-6000 (24/7/365) English Only

Transportation Emergencies - CHEMTREC: (800) 424-9300 (Inside Continental USA) (703) 527-3887 (Outside Continental USA)

Rocky Mountain Poison Center (For Human Exposure):

(303) 595-4869

Animal Health Technical Services:

For Animal Adverse Events: Small Animals and Horses: (800) 224-5318

For Animal Adverse Events: Livestock: (800) 211-3573 For Animal Adverse Events: Poultry: (800) 219-9286

INFORMATION: Animal Health Technical Services:

For Small Animals and Horses: (800) 224-5318

For Livestock: (800) 211-3573 For Poultry: (800) 219-9286

MERCK MSDS HELPLINE: (800) 770-8878 (US and Canada)

(908) 473-3371 (Worldwide)

Monday to Friday, 9am to 5pm (US Eastern Time)

SECTION 2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Oily liquid White

Odor unknown

May be irritating to eyes.

May be an aspiration hazard if ingested (mineral oil).

May cause allergic reactions in susceptible individuals (preservatives).

POTENTIAL HEALTH EFFECTS:

This product is not for use in humans. Accidental injection may casue local swelling, irritation or necrosis at the injection site. Oral ingestion may cause gastrointestinal effects including nausea, vomiting, and diarrhea.

Ingestion of mineral oil may cause laxative effect, nausea, dehydration or lipid pneumonia. Long-term dermal exposure to mineral oil may cause dermatitis and oil acne.

LISTED CARCINOGENS

INGREDIENT	CAS NUMBER	OSHA	IARC	NTP	ACGIH
Mineral Oil	8012-95-1				A2

This product contains a highly refined grade of mineral oil which is not classified as a carcinogen by IARC or NTP.

Fields in the above table that do not contain data indicate that the materials have not been classified as human or animal carcinogens.

ADDITIONAL INFORMATION:

This product contains a preservative or preservatives which may cause allergic-type reactions, including

anaphylactic shock, in susceptible individuals.

SECTION 3. COMPOSITION AND INFORMATION ON INGREDIENTS

PRODUCT USE: Vaccine
CHARACTERISTIC: Killed
CHEMICAL FORMULA: Mixture.

The formulation for this product is proprietary information. Only hazardous ingredients in concentrations of 1% or greater and/or carcinogenic ingredients in concentrations of 0.1% or greater are listed in the Chemical Composition table. Active ingredients in any concentration are listed. For additional information about carcinogenic ingredients see Section 2.

This product contains a preservative, as listed, in a concentration of less than 1%.

CHEMICAL COMPOSITION

INGREDIENT	CAS NUMBER	PERCENT
Moraxella Bovis Bacterin, EPP 63 (Inactivated)		Varies
Moraxella Bovis Bacterin, FLA 64 (Inactivated)		Varies
Moraxella Bovis Bacterin, SAH 38 (Inactivated)		Varies
Mineral Oil	8012-95-1	60-70
Polysorbate 80 (Tween 80)	9005-65-6	< 10
Preservative (Gentamicin)	1403-66-3	<1

ADDITIONAL INFORMATION:

This MSDS is written to provide health and safety information for individuals who will be handling the final product formulation during research, manufacturing, and distribution. For health and safety information for individual ingredients used during manufacturing, refer to the appropriate MSDS for each ingredient. Refer to the package insert or product label for handling guidance for the consumer.

SECTION 4. FIRST AID MEASURES

INHALATION: Remove to fresh air. If any trouble breathing, get immediate medical attention. Administer artificial

respiration if breathing has ceased. If irritation or symptoms occur or persist, consult a physician.

SKIN CONTACT: In case of skin contact, while wearing protective gloves, carefully remove any contaminated clothing,

including shoes, and wash skin thoroughly with soap and water. If irritation or symptoms occur or persist,

consult a physician.

EYE CONTACT: In case of eye contact, immediately rinse eyes thoroughly with plenty of water. If wearing contact lenses,

remove only after initial rinse, and continue rinsing eyes for at least 15 minutes. If irritation occurs or

persists, consult a physician.

INGESTION: Rinse mouth and drink a glass of water. Do not induce vomiting unless under the direction of a qualified

medical professional or Poison Control Center. If symptoms persist, consult a physician.

NOTE TO PHYSICIAN: This product is a vaccine. Accidental injection may cause irritation and swelling. This vaccine contains

non-degradable mineral oil; the deposited vaccine must be completely drained from the injection site immediately. If left untreated it may cause tissue necrosis. This preparation contains a preservative or

antibiotic or both which may cause allergic reactions in susceptible individuals.

SECTION 5. FIRE FIGHTING MEASURES

FLAMMABILITY DATA:

Flash Point: Not determined (liquids) or not applicable (solids).

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SECTION 5. FIRE FIGHTING MEASURES

SPECIAL FIRE FIGHTING PROCEDURES:

Wear full protective clothing and self-contained breathing apparatus (SCBA).

SUITABLE EXTINGUISHING MEDIA:

Water. Dry chemical. Carbon dioxide (CO2).

See Section 9 for Physical and Chemical Properties.

SECTION 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

Wear appropriate personal protective equipment as specified in Section 8. Keep personnel away from the clean-up area.

SPILL RESPONSE / CLEANUP:

All spills should be handled according to site requirements and based on precautions cited in the MSDS. In the case of liquids, use proper absorbent materials. For laboratories and small-scale operations, incidental spills within a hood or enclosure should be cleaned by using a HEPA filtered vacuum or wet cleaning methods as appropriate. For large dry or liquid spills or those spills outside enclosure or hood, appropriate emergency response personnel should be notified. In manufacturing and large-scale operations, HEPA vacuuming prior to wet mopping or cleaning is required.

See Sections 9 and 10 for additional physical, chemical, and hazard information.

SECTION 7. HANDLING AND STORAGE

HANDLING:

Keep containers adequately sealed during material transfer, transport, or when not in use. Wash face, hands, and any exposed skin after handling. Do not eat, drink, or smoke when using this substance or mixture.

Appropriate handling of this material is dependent on many factors, including physical form, duration and frequency of process or task, and effectiveness of engineering controls. Site-specific risk assessments should be conducted to determine the feasibility and the appropriateness of all exposure control measures. See Section 8 (Exposure Controls) for additional guidance.

STORAGE:

Store between 2 and 7 deg C.

See Section 8 for exposure controls and additional safe handling information.

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

The following guidance applies to the handling of the active ingredient(s) in this formulation.

EXPOSURE CONTROLS

The health hazard risks of handling this material are dependent on many factors, including physical form, duration and frequency of process or task, and effectiveness of engineering controls. Site-specific risk assessments should be conducted to determine the feasibility and the appropriateness of all exposure control measures. Exposure controls for normal operating or routine procedures follow a tiered strategy. Engineering controls are the preferred means of long-term or permanent exposure control. If engineering controls are not feasible, appropriate use of personal protective equipment (PPE) may be considered as alternative control measures. Exposure controls for non-routine operations must be evaluated and addressed as part of the site-specific risk assessment.

RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT (PPE):

Respiratory Protection: Respiratory protective equipment (RPE) may be required for certain laboratory and large-scale

manufacturing tasks if potential airborne breathing zone concentrations of substances exceed the relevant exposure limit(s). Workplace risk assessment should be completed before specifying and implementing RPE usage. Potential exposure points and pathways, task duration and frequency, potential employee contact with the substance, and the ability of the substance to be rendered airborne during specific tasks should be evaluated. Initial and ongoing strategies of quantitative exposure measurement should be obtained as required by the workplace risk assessment. All RPE must conform to local and regional specifications for efficacy and performance. Consult your site or corporate health and safety professional

for additional guidance.

Skin Protection: Gloves that provide an appropriate barrier to the skin are recommended if there is potential for contact with

this material. Consult your site safety staff for guidance.

Eye Protection: Safety glasses with side shields. Use of goggles or full face protection may be required based on hazard,

potential for contact, or level of exposure. Consult your site safety staff for guidance.

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Body Protection:

In small-scale or laboratory operations, lab coats or equivalent protection is required. Disposable Tyvek or other dust impermeable suit should be considered based on procedure or level of exposure. Use of additional PPE such as shoe coverings, gauntlets, hood, or head covering may be necessary. Consult your site safety staff for guidance.

In large-scale or manufacturing operations, disposable Tyvek or other dust impermeable suit is recommended and based on level of exposure. Use of additional PPE such as shoe coverings, gauntlets, hood, or head covering may be necessary. Consult your site safety staff for guidance.

EXPOSURE LIMIT VALUES

INGREDIENT	CAS NUMBER	ACGIH TLV (TWA)	OSHA PEL (TWA)
Mineral Oil	8012-95-1	5 mg/m ³	5 mg/m ³

Fields in the above table(s) that do not contain data indicate that exposure limits are not available for those endpoints.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

FORM: Oily liquid
COLOR: White
ODOR: Odor unknown
SOLUBILITY:

Water: Not determined Acetone: Not determined

See Section 5 for flammability/explosivity information.

SECTION 10. STABILITY AND REACTIVITY

STABILITY/ REACTIVITY:

Stable under normal conditions.

INCOMPATIBLE MATERIALS / CONDITIONS TO AVOID:

Open flames and high temperatures. Oxidizers. Strong acids and bases. \\

HAZARDOUS DECOMPOSITION PRODUCTS / REACTIONS:

Carbon monoxide (CO). Carbon dioxide (CO2).

SECTION 11. TOXICOLOGICAL INFORMATION

The toxicological properties of the mixture(s) have not been fully characterized in humans or animals. The information presented below pertains to the following individual ingredients, and not to the mixture(s).

ACUTE TOXICITY DATA

SKIN:

Mineral Oil: Slight irritant

EYE:

Mineral Oil: Moderately irritating.

Polysorbate 80 was slightly irritating to the eyes of rabbits.

ORAL:

Mineral Oil: Oral LD50: 22,000 mg/kg (mouse)

Polysorbate 80: Oral LD50: 34500 mg/kg (rat); 25000 mg/kg (mouse)

DERMAL AND RESPIRATORY SENSITIZATION:

Mineral oil was not a skin sensitizer in guinea pigs.

REPEAT DOSE TOXICITY DATA

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SUBCHRONIC / CHRONIC TOXICITY:

Female rats received mineral oil in the diet at dosages up to 20,000 ppm for 90 days. Effects observed included increased liver, kidney, and spleen weights, and enlargement of the lymph nodes together with granulomatous lipoid granules.

CARCINOGENICITY:

There was no evidence of carcinogenicity in animals exposed to mineral oil mist at 100 mg/m³ or higher for as long as two years.

SECTION 12. ECOLOGICAL INFORMATION

ECOTOXICITY DATA

There are no ecototoxicity data available for this product or its components.

ENVIRONMENTAL DATA

There are no environmental data available for this product or its components.

SECTION 13. DISPOSAL CONSIDERATIONS

MATERIAL WASTE:

Disposal must be in accordance with applicable federal, state/provincial, and/or local regulations. Incineration is the preferred method of disposal, when appropriate. Operations that involve the crushing or shredding of waste materials or returned goods must be handled to meet the recommended exposure limit(s).

PACKAGING AND CONTAINERS:

Disposal must be in accordance with applicable federal, state/provincial, and/or local regulations.

SECTION 14. TRANSPORT INFORMATION

This material is not subject to the transportation regulations of DOT, IATA, IMO, and the ADR.

SECTION 15. REGULATORY INFORMATION

TSCA LISTING

INGREDIENT	TSCA
Mineral Oil	X
Polysorbate 80 (Tween 80)	X

U.S. STATE REGULATIONS

INGREDIENT	California Proposition 65	CARTK	NJRTK	CTRTK	MARTK
Mineral Oil		Χ	1437		X

INGREDIENT	PARTK	MNRTK	MIRTK	RIRTK
Mineral Oil	X	X		X

Fields in the above tables that do not contain data indicate that those materials have not been listed by local regulations.

SECTION 16. OTHER INFORMATION

Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained therein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequence of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).

DEPARTMENT ISSUING MSDS:

Global Safety & the Environment Merck & Co., Inc. One Merck Drive Whitehouse Station, NJ 08889

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MERCK MSDS HELPLINE: (800) 770-8878 (US and Canada)

(908) 473-3371 (Worldwide)

Monday to Friday, 9am to 5pm (US Eastern Time)

MSDS CREATION DATE: 01-Aug-2000

SUPERSEDES DATE: 21-Mar-2008

SECTIONS CHANGED (US SUBFORMAT): 1, 16

SIGNIFICANT CHANGES (US SUBFORMAT): Phone Number(s), OEB

MSDS NAME: Piliguard Pinkeye 3 MSDS NUMBER: SP001595

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