

Safety Data Sheet (SDS): *Moraxella Bovis* Bacterin, Code 2772.I0

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT TRADENAME: SolidBac® Pinkeye IR/PR®

PRODUCT TRUE NAME: *Moraxella Bovis* Bacterin

PRODUCT FAMILY: Veterinary Biologic Product: Bovine Vaccine

MANUFACTURED BY: SolidTech Animal Health, Inc.

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ISSUE DATE: May 10, 2019

PRODUCT USE: For the vaccination of healthy cattle as an aid in the prevention and control of pinkeye (infectious bovine keratoconjunctivitis) caused by *Moraxella bovis*.

SECTION 2: HAZARDOUS INGREDIENTS

| <u>Active Ingredient</u> | <u>C.A.S. No.</u> | <u>% by Wt.</u> | <u>OSHA PEL</u> |
|--------------------------|-------------------|-----------------|----------------------------------|
| Formaldehyde | 50-00-00 | ≤ 0.2% | 0.75 ppm (TWA) 2.0 ppm (STEL) |
| Adjuvant* | NA | 10-30% | None established |
| Gentamicin | 1403-66-3 | Trace | None established |

* Specific chemical identity withheld as trade secret.

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). Other components of the product are either non-hazardous or are present at less than one per cent of the composition.

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SECTION 3: HAZARDS IDENTIFICATION

3.1 EMERGENCY OVERVIEW

ROUTES OF ENTRY: Dermal, Injection, Ingestion

ACUTE EFFECTS OF EXPOSURE: Exposure to hazardous components when handled and administered according to product instructions is expected to be minimal since product is in solid dosage form. Accidental human injection of inactivated vaccines containing formaldehyde, adjuvants, gentamicin and diluents may cause serious localized reactions and direct tissue injury.

CHRONIC EFFECTS OF EXPOSURE: No chronic health effects associated with the product are known, however repeated exposure to formaldehyde, a possible residual component of this product, has the potential to cause cancer in humans.

CARCINOGENIC EFFECTS OF EXPOSURE: Formaldehyde is considered to be a possible and reasonably anticipated human carcinogen by NTP and IARC and formaldehyde is regulated as a carcinogen by OSHA.

SECTION 4: FIRST AID MEASURES

4.1 FIRST AID PROCEDURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

Eye Contact: Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

Skin Contact: Wash affected area with plenty of water. Contact a physician if irritation occurs.

Ingestion: Seek immediate medical attention.

Injection: Remove needle, wash injection site with soap and water, contact physician immediately. Following accidental injection, the vaccine can remain in the focal area near the injection site or disperse itself from the injection site. After physician evaluation, it may be found prudent to remove the foreign irritant.

SECTION 5: FIRE FIGHTING MEASURES

5.1 FLAMMABLE PROPERTIES

| | |
|---------------------------------|-----------------------|
| Autoignition temperature | <i>Not Applicable</i> |
| Flash Point | <i>Not Applicable</i> |
| Flammable Limits – LEL | <i>Not Applicable</i> |
| Flammable Limits – UEL | <i>Not Applicable</i> |

5.2 EXTINGUISHING MEDIA

Water unless contraindicated by other materials involved in the fire.

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5.3 PROTECTION OF FIRE FIGHTERS

Special Fire Fighting Procedures: Standard equipment.

Unusual Fire and Explosion Hazards: Not applicable.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Spills should be flushed with copious volumes of water to sewer system. Spills may be absorbed using clay, soil, or non-flammable commercial absorbents.

SECTION 7: HANDLING AND STORAGE

7.1 HANDLING:

Use the product only in accordance with label instructions. Protect containers (pouches and clips) from damage.

7.2 STORAGE

Keep refrigerated at 2° – 7° C (36° – 45° F). Shelf life: See expiration date on pouch label.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes: Prevent eye contact by wearing appropriate eye protection for handling tasks.

Skin: Avoid skin contact with pellets. Select and use gloves and/or protective clothing to prevent skin contact.

Respiratory: Under normal use conditions, airborne exposures are not expected to be significant enough to require respiratory protection.

Ingestion: Do not swallow pellets. Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White and pink cylindrical pellets.

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SECTION 10: STABILITY AND REACTIVITY

Chemical Stability: Stable

Conditions to Avoid: None known

Incompatibility: None known

Hazardous Polymerization: Will not occur

SECTION 11: TOXICOLOGICAL INFORMATION

Oral LD₅₀ (Rat): Not available

Intraperitoneal LD₅₀ (Rat): Not available

Intraperitoneal LD₅₀ (Mouse): Not available

SECTION 12: ECOLOGICAL INFORMATION

This product when used according to label instructions poses negligible impact on the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Bury in an EPA approved landfill or burn in an approved incinerator.

SECTION 14: TRANSPORT INFORMATION

Not DOT Regulated

SECTION 15: REGULATORY INFORMATION

OSHA Status: This product is hazardous under the criteria of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200

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SECTION 16: OTHER INFORMATION

The information contained herein is true and accurate to the best knowledge of SolidTech Animal Health, Inc. However, all data, instructions and/or recommendations are made without guarantee. The buyer and handler assume all risk and liability of use, storage and/or handling of this product not in accordance with the terms of the product label.