SAFETY DATA SHEETS

This SDS packet was issued with item:

078386484

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

078386443 078386500

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

078386435

MATERIAL SAFETY DATA SHEET

SECTION I – PRODUCT INFORMATION

PRODUCT NAME: Progard KC (C-673-1, 10)
Progard KC Plus (C-684-1, 10)
PRODUCT NAME: Veterinary Biologic Products
PRODUCT FAMILY: Canine Vaccines
PRODUCT TYPE: Biological, Modified Live Virus
PRODUCT USE: Refer to product packaging or insert for proper usage.

MANUFACTURER/SUPPLIER: Intervet, Inc.
405 State Street
P.O. Box 318
Millsboro, DE 19966

TELEPHONE: 1-800-268-4257
EMERGENCY #: 1-800-345-4735 (only to be used after hours between 4:30pm - 8:30am)
FAX: 1-888-498-4444

SECTION II – INGREDIENT INFORMATION

These products contain no hazardous ingredients as defined under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

SECTION III – PHYSICAL DATA

pH: 6.8 – 7.1
APPEARANCE: Tan caked powder with clear or pink sterile diluent.

SECTION IV – FIRE AND EXPLOSION DATA

EXTINGUISHING METHODS: Use water, water mist, foam or dry chemical to extinguish fire. For fighting large fire wear full bunker gear, including SCBA. Keep unwind.

SECTION V – HEALTH HAZARD DATA

ROUTES OF ENTRY: Dermal, Injection, Inhalation, Ingestion.

ACUTE EFFECTS OF EXPOSURE: This product is approved for veterinary use. To the best of our knowledge, there are no hazards associated with the products listed above when handled and administered according to the product insert and under normal conditions of use. However, contact with any liquid or powder may cause irritation to the eyes and skin. As such, following those recommendations on Personal Protection as provided in Section VIII of this document may be prudent.

Accidental human injection of inactivated oil emulsion vaccines containing adjuvants, diluents, and stabilizers may cause serious localized reactions and direct tissue injury. Symptoms of exposure may include significant swelling and pain at the area of injection. Other concerns may involve bacterial infection from needles used in multiple animal vaccinations.

Oral LD_{50} Rat: Not available
Intraperitoneal LD_{50} (rat): Not available
Intraperitoneal LD_{50} (mouse): Not available

CHRONIC EFFECTS OF EXPOSURE: No chronic health effects associated with the listed products are known.
CARCINOGENIC EFFECTS: This product is not considered a carcinogen and is not listed by OSHA, IRAC, or NTP.

SECTION V – HEALTH HAZARD DATA (CONT.)

FIRST AID PROCEDURES:
In case of contact with skin, wash **IMMEDIATELY** affected area with soap and water. Contact a physician if irritation occurs.
In case of contact with eyes, **IMMEDIATELY** flush with plenty of water for fifteen minutes. Contact a physician.
In case of inhalation, remove to fresh air. If not breathing, give artificial respiration and call for medical help **IMMEDIATELY.**
In case of ingestion, seek medical attention **IMMEDIATELY**.
In case of 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 VI – REACTIVITY DATA

CHEMICAL STABILITY: Stable
CONDITIONS TO AVOID: None known
INCOMPATIBILITY (Materials to Avoid): None known
HAZARDOUS POLYMERIZATION: Will not occur

SECTION VII – SPILL OR LEAK PROCEDURE

PROCEDURES IN CASE OF SPILL OR LEAK: Clean up spilled material. Place in a secure container for disposal.
DISPOSAL METHODS: Burn the container and all unused contents. Adhere to federal, state and local regulations for disposal.

SECTION VIII – SPECIAL PROTECTION INFORMATION

EYES: Prevent eye contact by wearing appropriate eye protection for handling tasks.
SKIN: Avoid skin contact. Wear chemical resistant gloves, long-sleeves and trousers to prevent dermal contact.
RESPIRATORY PROTECTION: Under normal conditions of use, as stated in the product insert, no respiratory protection is necessary. However, if ventilation is inadequate wear a NIOSH approved respirator.

SECTION IX - STORAGE AND HANDLING PRECAUTIONS

STORAGE: Keep refrigerated, 2-7ºC (35-45ºF). Avoid high temperatures and freezing of liquid. Protect containers from damage.
SHELF LIFE: See expiration date on product label.
HANDLING PRECAUTIONS: Read and follow all package insert instructions. Protect containers from damage.

SECTION X – ECOLOGICAL INFORMATION

This product when used according to the insert direction, poses negligible impact on the environment.

SECTION XI – TRANSPORTATION INFORMATION

DOT SHIPPING INFORMATION: Not regulated by the DOT.

SECTION XII – REGULATORY INFORMATION

OSHA STATUS: This product not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA STATUS: This product is a food, food additive, drug, cosmetic or device as defined by section 201 of the Federal Food, Drug and Cosmetic Act and therefore is exempt from TSCA regulation under section 3 (2) (B) (vii).

SARA TITLE III:

Section 302 Extremely Hazardous Substance:	None
Section 311/312 Hazard Categories:	None
Section 313 Toxic Chemicals:	None

RCRA STATUS: When discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

SECTION XIII - ADDITIONAL INFORMATION

The information contained herein is true and accurate to the best of the knowledge of Intervet 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.

FOR ANIMAL USE ONLY

The information contained herein is true and accurate to the best of the knowledge of Intervet Canada Ltd. However, all data, instructions and/or recommendations are made without guarantee.

SIGNED: _____ DATE ISSUED: January 2, 2008

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: **Nobivac Intra-Trac Vaccines**

SYNONYM(S): Nobivac Intra-Trac Vaccines

Intra-Trac II
Intra-Trac II ADT
Canine-Parainfluenza-Bordetella bronchiseptica, vaccine modified live virus, avirulent culture

Intra-Trac 3
Intra-Trac 3 ADT
Canine Adenovirus Type 2-Parainfluenza-Bordetella bronchiseptica, vaccine modified live virus, avirulent culture

Nobivac Intra-Trac 3
Nobivac Intra-Trac 3 ADT

MSDS NUMBER: SP000991

EMERGENCY NUMBER(S): +1 (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

Freeze-dried cake
Off-white, Tan
Odor unknown
May cause allergic reactions in susceptible individuals (preservatives).

POTENTIAL HEALTH EFFECTS:

SECTION 2. HAZARDS IDENTIFICATION

The toxicological properties of the mixture(s) have not been fully characterized in humans or animals. However, there are data to describe the toxicological properties of the individual ingredients. The following summary is based upon available information about the individual ingredients of the mixture(s), or of the expected properties of the mixture(s).

This product is a canine vaccine. Accidental injection may cause irritation, inflammation, or necrosis.

Bordetella bronchiseptica may cause pneumonia and other respiratory tract infections. It can be an opportunistic pathogen in humans; however, there is no evidence that this attenuated vaccine strain causes any disease in humans through casual contact.

Lactose is not expected to produce significant toxicity with workplace exposure. Lactose may cause irritation to the eyes, skin, and mucous membranes from mechanical action. Lactose may cause abdominal pain, bloating and diarrhea if ingested in large amounts or in lactose-intolerant individuals. Lactose may cause allergic reactions in sensitive individuals.

LISTED CARCINOGENS

Not listed as a carcinogen by OSHA, IARC, NTP or ACGIH.

ADDITIONAL INFORMATION: The preservatives in the product(s) may cause allergic-type reactions, including anaphylactic shock, in susceptible individuals. Individuals allergic or sensitive to antibiotics similar to those used as preservatives in the formulation(s) may also be sensitive to the product(s).

SECTION 3. COMPOSITION AND INFORMATION ON INGREDIENTS

PRODUCT USE: Vaccine

CLASS: Attenuated avirulent vaccine

CHARACTERISTIC: Live

The formulations for these products are proprietary information. These formulations have the same hazardous profile; however, the presence of hazardous ingredients may vary by formulation. 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.

The product(s) may contain preservatives, as listed, in concentrations less than 1%.

CHEMICAL COMPOSITION

INGREDIENT	CAS NUMBER	PERCENT
Avirulent Bordetella bronchiseptica		Varies
Canine Adenovirus Type 2 (Modified Live)		Varies
Canine Parainfluenza virus (Modified Live)		Varies
Preservatives (Nystatin, Penicillin, Streptomycin)		< 1
Lactose	63-42-3	< 10

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.

SECTION 4. FIRST AID MEASURES

NOTE TO PHYSICIAN: This product is a vaccine. Accidental injection may cause local swelling, irritation or necrosis at the injection site. 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).

SPECIAL FIRE FIGHTING PROCEDURES:
Wear full protective clothing and self-contained breathing apparatus (SCBA).

SUITABLE EXTINGUISHING MEDIA:
Water. Dry chemical. Carbon dioxide (CO_2).

See Section 9 for Physical and Chemical Properties.

SECTION 6. ACCIDENTAL RELEASE MEASURES

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

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:
Do not freeze. Store between 2 and 7 deg C (35 and 45 deg F).

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.
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

No exposure limits are available for the active ingredient(s) or any other hazardous ingredient in this formulation.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

FORM:	Freeze-dried cake
COLOR:	Off-white, Tan
ODOR:	Odor unknown
SOLUBILITY:	
Water:	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:
None known.

HAZARDOUS DECOMPOSITION PRODUCTS / REACTIONS:
No dangerous decomposition is expected if used according to manufacturer's specifications.

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

ORAL:
Lactose: Oral LD50: > 10g/kg (rat)

REPEAT DOSE TOXICITY DATA

CARCINOGENICITY:
This material or product has not been evaluated for carcinogenicity.

SECTION 12. ECOLOGICAL INFORMATION

ECOTOXICITY DATA

There are no ecotoxicity data available for these products or their components.

ENVIRONMENTAL DATA

There are no environmental data available for these products or their 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
Lactose	X

U.S. STATE REGULATIONS

Check state requirements for ingredient listing.

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:
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Merck & Co., Inc.
One Merck Drive
Whitehouse Station, NJ 08889

MERCK MSDS HELPLINE:
(800) 770-8878 (US and Canada)
(908) 473-3371 (Worldwide)
Monday to Friday, 9am to 5pm (US Eastern Time)

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