



**Material Safety Data Sheet**  
**ISO/DIS 11014 / 29 CFR 1910.1200 / ANSI Z400.1**

Printing date 06/05/2007

Reviewed on 06/05/2007

**1 Identification of substance**

- **Product details**
- **Trade name:** Canine Melanoma Vaccine, DNA
- **Item number:** 9240.D0
- **Manufacturer/Supplier:**  
Merial, Inc  
115 Transtech Drive  
Athens, GA 30601  
Tel.: 1-888-MERIAL 1 (1-888-637-4251)
- **Information department:** MSDS Coordinator
- **Emergency information:**  
Spill Information:  
CHEMTREC® 1-800-424-9300  
CHEMTREC® International 1+703-527-3887  
International calls 011+703-527-3887  
Reverse charges.

**2 Composition/Data on components**

- **Chemical characterization**

· **Components:**

	Non hazardous inert ingredients		99.5 %
64-17-5	ethanol	F; R 11	0.5%

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

**3 Hazards identification**

- **Hazard description:** Not applicable.
- **Information pertaining to particular dangers for man and environment:**  
The product does not have to be labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- **Classification system:**  
The classification was made according to the latest editions of international substances lists, and from company and regulatory data.
- **NFPA ratings (scale 0 - 4)**

Health = 0  
Fire = 0  
Reactivity = 0

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· **HMIS-ratings (scale 0 - 4)**

HEALTH	0	Health = 0
FIRE	0	Fire = 0
REACTIVITY	0	Reactivity = 0

### 4 First aid measures

- **General information:** No special measures required.
- **After inhalation:** Seek medical advice.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for a minimum of 15 minutes under running water. Seek medical advice.
- **After swallowing:** Seek medical advice.
- **After self injection:** Seek medical advice.
- **Information for doctor.**  
*The following symptoms may occur*  
*In case of symptomatic effect provide treatment to maintain life functions.*  
*The product contains 100 ug of plasmid DNA in an aqueous buffer*

### 5 Fire fighting measures

- **Suitable extinguishing agents:** Not applicable
- **Protective equipment:** Self-contained breathing apparatus and full protective equipment.

### 6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:** This product does not pose a significant risk to the environment.
- **Measures for cleaning/collecting:**  
*Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).*  
*Dispose of contaminated material as waste according to section XIII.*
- **Additional information:** No dangerous substances are released.

### 7 Handling and storage

- **Handling:**
- **Information for safe handling:**  
*Store in cool, dry place in tightly closed containers.*  
*Handle with care. Avoid jolting and impact.*
- **Information about protection against explosions and fires:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store only in the original container.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Store in a cool, dry, well ventilated place.
- **Recommended storage temperature:**  
 35-45°F (2-7°C)  
*Use entire contents when first opened.*

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### 8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with limit values that require monitoring at the workplace:**  
 The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
 Wash hands before breaks and at the end of work.  
 Avoid contact with the eyes and skin.  
 Do not eat, drink, smoke or inhale.  
 Do not store food in the working area.
- **Protection of hands:** Not required under normal conditions of use.
- **Eye protection:** Not required under normal conditions of use.
- **Body protection:** Not required under normal conditions of use.

### 9 Physical and chemical properties

#### · General Information

<b>Form:</b>	Liquid
<b>Color:</b>	Colorless
<b>Odor:</b>	Odorless

#### · Change in condition

**Melting point/Melting range:** Not applicable.  
**Boiling point/Boiling range:** Approximately 100°C/212°F

· **Flash point:** Not applicable.

· **Auto igniting:** Product is not self-igniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Specific gravity:** Not determined.

#### · Solubility in / Miscibility with

**Water:** Completely miscible.

· **pH-value at 20°C (68°F):** 7.7

· **Organic solvents:** 0.5 %

### 10 Stability and reactivity

#### · Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.  
 Do not freeze.

· **Dangerous reactions** No dangerous reactions known.

· **Dangerous products of decomposition:** No dangerous decomposition products known.

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### 11 Toxicological information

· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

**64-17-5 ethanol**

Oral	LD50	7060 mg/kg (rat)
Inhalation	LC50/4 h	20000 mg/l (rat)

· **Primary irritant effect:**

· **on the skin:** No irritating effect known.

· **on the eye:** No irritating effect known.

· **Sensitization:** No sensitizing effects known.

· **Additional toxicological information:**

The product is not subject to classification according to internally approved calculation methods for preparations.

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

### 12 Ecological information

· **Information about elimination (persistence and degradability):**

· **Other information:** Not applicable.

### 13 Disposal considerations

· **Product:**

· **Recommendation:** Incinerate container and contents according to local regulations.

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

· **DOT regulations:**

· **Hazard class:** -

· **Land transport ADR/RID (cross-border):**

· **ADR/RID class:** -

· **Maritime transport IMDG:**

· **IMDG Class:** -

· **Marine pollutant:** No

· **Air transport ICAO-TI and IATA-DGR:**

· **ICAO/IATA Class:** -

### 15 Regulations

· **SARA**

· **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

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**· Section 313 (Specific toxic chemical listings):**

None of the ingredients are listed.

**· TSCA (Toxic Substances Control Act):**

64-17-5 ethanol

**· CA Proposition 65**

**· Chemicals known to cause cancer:**

None of the ingredients are listed.

**· Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

**· Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

**· Chemicals known to cause developmental toxicity:**

64-17-5 ethanol

**· Carcinogenesis potential categories**

**· EPA (Environmental Protection Agency)**

None of the ingredients is listed.

**· IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

**· NTP (National Toxicology Program)**

None of the ingredients is listed.

**· TLV (Threshold Limit Value established by ACGIH)**

64-17-5 ethanol

A4

**· MAK (German Maximum Workplace Concentration)**

64-17-5 ethanol

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**· NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

**· OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

**· Product related hazard informations:**

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations according to directives on hazardous materials.

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**· Department issuing MSDS: MSDS Coordinator**

**· Contact: MSDS Coordinator, msds@merial.com**