

Date of Issue: 18 August 2010

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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SUBSTANCE: DNAgard® Blood

PRODUCT USE: For Research Use Only. Not for use in diagnostic procedures.

2. COMPOSITION, INFORMATION ON INGREDIENTS

CHEMICAL CHARACTERIZATION

DESCRIPTION: Mixture of substances listed below with non-hazardous additions.

COMPONENT: TRADE SECRET 093272
CAS NUMBER: Not assigned.
PERCENTAGE: <10%

COMPONENT: TRADE SECRET 345834
CAS NUMBER: Not assigned.
PERCENTAGE: <5%

COMPONENT: TRADE SECRET 784034
CAS NUMBER: Not assigned.
PERCENTAGE: <5%

COMPONENT: TRADE SECRET 456789
CAS NUMBER: Not assigned.
PERCENTAGE: <5%

COMPONENT: TRADE SECRET 367403
CAS NUMBER: Not assigned.
PERCENTAGE: <5%

COMPONENT: TRADE SECRET 983653
CAS NUMBER: Not assigned.
PERCENTAGE: <5%

3. HAZARDS IDENTIFICATION

HAZARD DESCRIPTION: Not applicable.
INFORMATION PERTAINING TO PARTICULAR DANGERS FOR MAN AND ENVIRONMENT: Harmful if swallowed, inhaled or absorbed through skin.

CLASSIFICATION SYSTEM: This classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

NFPA RATINGS (SCALE 0-4):

HEALTH=2*

FIRE=0

REACTIVITY=0

*additional chronic hazards present. For additional information on toxicity, refer to Section 11.

WHMIS RATINGS (SCALE 0-4)

HEALTH=2

FIRE=0

REACTIVITY=0

PHYSICAL FORM: liquid

4. FIRST AID MEASURES

INHALATION: If inhaled, remove to fresh air, consult a physician.

SKIN CONTACT: Immediately wash skin with soap and water, consult a physician.

EYE CONTACT: Flush with copious amounts of water for at least 15 minutes, ensuring eye lids are open. Consult a physician.

INGESTION: If swallowed, wash out mouth with water, provided person is conscious. Drink plenty of water and contact a physician.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Water spray. Carbon dioxide, regular dry chemical powder, or appropriate foam.

FIRE FIGHTING: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. **Specific Hazard(s):** Emits toxic fumes under fire conditions.

6. ACCIDENTAL RELEASE MEASURES

PROCEDURE(S) OF PERSONAL PRECAUTION(S): Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust.

METHODS FOR CLEANING UP: Pick up and arrange disposal without creating dust. Keep in suitable closed containers for disposal.

7. HANDLING AND STORAGE

HANDLING:

User Exposure: Avoid contact with eyes, skin and clothing. Provide appropriate exhaust ventilation at places where dust is formed. Normal measure for preventive fire protection.

STORAGE: Keep container tightly closed in a dry and well-ventilated place. Hygroscopic.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

ADDITIONAL INFORMATION ABOUT DESIGN OF TECHNICAL SYSTEMS: No further data; see item 7.

EXPOSURE LIMITS: This product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

GENERAL PROTECTIVE AND HYGENIC MEASURES: Keep away from foodstuffs, beverages and feed. Wash hands thoroughly before and after handling.

BREATHING EQUIPMENT: None required.

VENTILATION: Maintain adequate ventilation at all times. In most circumstances, natural ventilation systems are adequate unless the material is heated, reacted or otherwise changed in some type of chemical reaction, then the use of a local exhaust ventilation system is recommended.

EYE PROTECTION: Wear chemical safety goggles.

CLOTHING: Wear protective clothing.

GLOVES: Wear protective gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

GENERAL INFORMATION:

FORM: Liquid
COLOR: Clear
ODOR: Odorless

CHANGE IN CONDITIONS:

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: Undetermined.

FLASH POINT: >235°F / 113°C

IGNITION TEMPERATURE: 842°F / 450°C

AUTO IGNITING: Product is not self-igniting.

DANGER OF EXPLOSION: Product does not present an explosion hazard.

DENSITY AT 20°C (68°F): 1.277 g/cm³

SOLUBILITY IN / MISCIBILITY WITH WATER: Fully miscible.

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: NA

HAZARDOUS DECOMPOSITION PRODUCTS: Strong oxidizing agents.

HAZARDOUS POLYMERIZATION: Hazardous decomposition products formed under fire conditions. Carbon oxides, nitrogen oxides (NOx), Hydrogen Chloride gas.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

Eye: irritating to eyes

Skin: irritating to the skin and mucous membranes

Sensitization:

May cause skin sensitization

Additional toxicological information:

None identified.

12. ECOLOGICAL INFORMATION

Ecotoxicological effect:

Toxic for fish and aquatic organisms.

13. DISPOSAL CONSIDERATIONS

PRODUCT:

RECOMMENDATION: Must not be disposed of together with household garbage. Disposal should be handled by an approved waste disposal facility.

Disposal must be according to official regulations. The product has to be disposed of as laboratory chemical in accordance with local regulation.

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14. TRANSPORT INFORMATION

US DEPARTMENT OF TRANSPORTATION: This substance is considered to be non-hazardous for transport.

LAND TRANSPORT ADR/RID (cross border):

ADR/RID class: 9 miscellaneous dangerous substances and articles

UN numer: 3082

Packaging group: III

Description of goods: 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID

AIR TRANSPORT IATA: This substance is considered to be non-hazardous for transport.

AIR TRANSPORT ICAO: This substance is considered to be non-hazardous for transport.

MARITIME TRANSPORT IMDG: This substance is considered to be non-hazardous for transport.

15. REGULATORY INFORMATION

SARA

SECTION 313 (Specific toxic chemical listings):

None of the ingredients is listed.

TSCA (Toxic Substances Control Act):

None of the ingredients are listed.

Chemicals known to cause cancer:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity:

None of the ingredients are listed.

CANCEROGENICITY CATEGORIES:

EPA (Environmental Protection Agency):

None of the ingredients are listed.

IARC (International Agency for Research on Cancer)

None of the ingredients are listed.

NTP (National Toxicology Program):

None of the ingredients are listed.

TLV (Treshold Limit Value established by ACGIH):

None of the ingredients are listed.

MAK (German Maximum Workplace Concentration):

None of the ingredients are listed.

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

None of the ingredients are listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients are listed.

PRODUCT RELATED HAZARD INFORMATIONS:

The product has been classified and marked in accordance with directives on hazardous materials.

HAZARD SYMBOLS:

Xi Irritant

N Dangerous for environment

RISK PHRASES:

R22 Harmful if swallowed

R36 Irritating to eyes.

R37 Irritating to respiratory system.

R38 Irritating to skin.

SAFETY PHRASES:

S36: Wear suitable protective clothing

S37: Wear suitable gloves

S38: In case of insufficient ventilation wear suitable respiratory equipment

S39: Wear eye/face protection

S61: Avoid release to the environment. Refer to special instructions/safety data sheet

NATIONAL REGULATIONS:

16. OTHER INFORMATION

For research use only. Not for use in diagnostic procedures.

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.