

LBgard Blood Reagent

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Issue date: 17-April-2017 Revision Date:17-March-2021 Document Number 7102 Version #: 03

SECTION 1: Identification

1.1. Identification

Product name : LBgard Blood Reagent
Product code : 100373
Document Number : 7102

1.2. Recommended use and restrictions on use

Recommended use : Stabilization of human whole blood.
Recommended restrictions : None known.

1.3. Manufacturer/Importer/Supplier/Distributor Information

Biomātrica
 5627 Oberlin Drive, Suite 120
 San Diego, CA 92121
 T 1-858-550-0308
 Email: EHS@ExactSciences.com

1.4. Emergency telephone number

Emergency number : +1-866-519-4752 (Access code: 334258)

SECTION 2: Hazard(s) identification

Physical hazards : Not classified.
Health hazards : Sensitization, skin Category 1B
 Specific target organ toxicity, repeated exposure (inhalation) Category 2 (Respiratory Tract)
Environmental hazards : Hazardous to the aquatic environment, acute hazard Category 3
 Hazardous to the aquatic environment, long-term hazard Category 3

OSHA defined hazards : Not classified

Label Elements :



Signal word : Warning

Hazard statement : May cause an allergic skin reaction. May cause damage to organs (Respiratory Tract) through prolonged or repeated exposure by inhalation. Harmful to aquatic life with long lasting effects.

Precautionary statement

Prevention : Do not breathe mist or vapor. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves.

Response : Get medical advice/attention if you feel unwell. If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Storage : Store away from incompatible materials.

Disposal : Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC) : None known.

Supplemental information : None.

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SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Chemical name	CAS number	%
TS-715226	* Proprietary	1 - <10
TS-718880	* Proprietary	1 - <10

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

Composition comments : All concentrations are in percent by weight unless otherwise indicated.
Chemical ingredient identity and/or concentration information withheld for some or all components present is confidential business information (trade secret) and is being withheld as permitted by 29 CFR 1910.1200(i).

SECTION 4: First-aid measures

Inhalation : Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact : Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.

Eye contact : Rinse with water. Get medical attention if irritation develops and persists.

Ingestion : Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed : May cause an allergic skin reaction. Dermatitis. Rash. Prolonged exposure may cause chronic effects.

Indication of immediate medical attention and special treatment needed : Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General information : If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Wash contaminated clothing before reuse.

SECTION 5: Fire-fighting measures

Suitable extinguishing media : Use extinguishing agent suitable for type of surrounding fire.

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : During fire, gases hazardous to health may be formed

Special protective equipment and precautions for firefighters : Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Firefighting equipment/instructions : Move containers from fire area if you can do so without risk.

Specific methods : Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards : This material will not burn unless it is evaporated to dryness.

SECTION 6: Accidental release measures

Personal precautions, protective equipment, and emergency procedures : Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up : Prevent product from entering drains.
Large Spills: Stop the flow of material if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
Small Spills: Wipe up with absorbent material (e.g., cloth, fleece). Clean surface thoroughly to remove residual contamination.
Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

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Environmental precautions : Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

SECTION 7: Handling and storage

Precautions for safe handling : Do not breathe mist or vapor. Avoid contact with eyes, skin, and clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities : Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

SECTION 8: Exposure controls/personal protection

Occupational exposure limits : No exposure limits noted for ingredient(s).

Biological limit values : No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls : Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions.

Individual protection measures, such as personal protective equipment

Eye/face protection : Wear safety glasses; chemical goggles (if splashing is possible).

Skin protection

Hand protection : Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

Other : Wear appropriate chemical resistant clothing.

Respiratory Protection : Not normally needed. In case of insufficient ventilation, wear suitable respiratory equipment. Wear NIOSH approved respirator appropriate for airborne exposure at the point of use.

Thermal Hazards : Not applicable.

Good hygiene considerations : Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Form : Liquid

Color : Colorless

Odor : Odorless

Odor threshold : No data available

pH : 5.8 - 6.2

Melting point : No data available

Freezing point : No data available

Boiling point : No data available

Flash point : No data available

Relative evaporation rate (butyl acetate=1) : No data available

Flammability (solid, gas) : No data available

Vapor pressure : No data available

Relative vapor density at 20 °C : No data available

Relative density : 1.1 at 25 °C

Solubility : No data available

Log Pow : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

Explosion limits : No data available

Explosive properties : Not explosive

Oxidizing properties : Not oxidizing

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9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

Reactivity	: The product is stable and non-reactive under normal conditions of use, storage, and transport.
Chemical stability	: Material is stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reaction known under conditions of normal use.
Conditions to avoid	: Contact with incompatible materials.
Incompatible materials	: Strong oxidizing agents.
Hazardous decomposition products	: No hazardous decomposition products are known.

SECTION 11: Toxicological information

Information on likely routes of exposure

Inhalation	May cause damage to organs through prolonged or repeated exposure by inhalation
Skin contact	May cause an allergic skin reaction.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	May cause discomfort if swallowed.

Symptoms related to the physical, chemical, and toxicological characteristics : May cause an allergic skin reaction. Dermatitis. Rash.

Information on toxicological effects

Acute toxicity : Not expected to be acutely toxic.

Components

TS-715226 (CAS * Proprietary)

1 - <10

Acute

Dermal

LD50

Rabbit

> 8000 mg/kg

Inhalation

Dust

LC50

Rat

> 5 mg/l, 1 Hours

Oral

LD50

Rat

5200 mg/kg

Skin corrosion/irritation : Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye irritation : Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

Respiratory sensitization : Not a respiratory sensitizer.

Skin sensitization : May cause an allergic skin reaction.

Germ cell mutagenicity : No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity : This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

NTP Report on Carcinogens

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Reproductive toxicity : This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity - single exposure : Not classified.

Specific target organ toxicity - repeated exposure : May cause damage to organs (Respiratory Tract) through prolonged or repeated exposure by inhalation.

Aspiration hazard : Not an aspiration hazard.

Chronic effects : May cause damage to organs through prolonged or repeated exposure.

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SECTION 12: Ecological information

- Ecotoxicity** : Harmful to aquatic life with long lasting effects.
- Persistence and degradability** : No data is available on the degradability of this product.
- Bioaccumulative potential** : No data available.
- Mobility in soil** : No data available.
- Other adverse effects** : No other adverse environmental effects (e.g., ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13: Disposal considerations

- Disposal instructions** : Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways, or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
- Local disposal regulations** : Dispose in accordance with all applicable regulations.
- Hazardous waste code** : The waste code should be assigned in discussion between the user, the producer, and the waste disposal company.
- Waste from residues / unused products** : Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
- Contaminated packaging** : Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not regulated for transport

Transportation of Dangerous Goods

Not regulated for transport

Transport by sea (IMDG)

Not regulated for transport

Air transport (IATA)

Not regulated for transport

Transport in bulk according to Annex II of MARPOL 73/78 and IBC Code

Not established

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SECTION 15: Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories : Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely Hazardous Substance

Not listed.

SARA311/312 Hazardous chemical : Yes

SARA 313 (TRI reporting)

Not regulated

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA)

Not regulated.

US state regulations : California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

US. Massachusetts RTK - Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

Not listed.

US. Pennsylvania Worker and Community Right-to-Know Law

Not listed.

US. Rhode Island RTK

Not regulated.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

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*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

SECTION 16: Other information

Issue date : 17-April-2017
Revision date : 07-December-2020
Version # : 03

NFPA health hazard : 2
NFPA fire hazard : 1
NFPA reactivity : 0



HMIS Hazard Rating

Health : 2
Flammability : 1
Physical : 0

List of abbreviations : ACGIH: American Conference of Industrial Hygienists.
CAS: Chemical Abstract Service.
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act.
CFR = Code of Federal Regulations.
DOT: Department of Transportation.
IARC: International Agency for Research on Cancer.
IATA: International Air Transport Association.
IBC: Intermediate Bulk Container.
IMDG: International Maritime Dangerous Goods.
LC50: Lethal Concentration, 50%.
LD50: Lethal Dose, 50%.
MARPOL: International Convention for the Prevention of Pollution from Ships.
NIOSH: National Institute for Occupational Safety and Health.
NTP: National Toxicology Program.
OSHA: Occupational Safety and Health Administration.
RTK: Right to know.
SARA: Superfund Amendments and Reauthorization Act.
TRI: Toxic Release Inventory.
TSCA: Toxic Substance Control Act.

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety, and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.