Safety Data Sheet (SDS)

Revision Number: 1.0	*Last updated: March 2019*

1. Product and Company Identification

Product Name:	**SensoLyte®Red Glucocerebrosidase (GBA) Assay Kit *Fluorimetric***
Manufacturer/Supplier:	AnaSpec, Inc. www.anaspec.com 34801 Campus Drive Fremont, CA 94555 Tel: 510-791-9560 Fax: 510-791-9572 Email: service@anaspec.com Eurogentec S.A www.eurogentec.com LIEGE Science Park 4102 Seraing, Belgium Tel: +32-4-3727400 Fax: +32-4-3727500 EGT Helpdesk, Tel: +32-4-3727500
Catalog Number	AS-72259
Unit Size	1 kit

2. Hazards Identification

Emergency Overview:

GHS Hazard Classification:

GHS Physical Hazards

Component A, B and E: Flammable liquid (Category 4)

Component C : None

Component D: Skin irritation (Category 3), Eye irritation (Category 2B)

GHS Health and Environmental Hazards

All components: Irritant to eyes and skin

GHS Signal Words:

All components: Warning

GHS Hazard Statements:

Component A, B and E : H227 Combustible liquid

Component C and D : H302 Harmful if swallowed. H316 Causes mild skin irritation, H320 Causes eye irritation. H335 May cause respiratory irritation.

GHS Precautionary Statements:

All components: Not a hazardous substance or mixture.

HMIS Classification:

Component A:	**Component B:**	**Component C:**	**Component D:**	**Component E:**
Health hazard: 0	*Health hazard: 0*	*Health hazard: 0*	*Health hazard: 0*	*Health hazard: 1*
Flammability: 2	*Flammability: 2*	*Flammability: 0*	*Flammability: 0*	*Flammability: 2*
Physical hazards: 0	*Physical hazards: 0*	*Physical hazards: 0*	*Physical hazards: 0*	*Physical hazards: 0*

NFPA Rating:

Component A:	**Component B:**	**Component C:**	**Component D:**	**Component E:**
Health hazard: 0	*Health hazard: 0*	*Health hazard: 0*	*Health hazard: 0*	*Health hazard:0*
Flammability: 2	*Flammability: 2*	*Flammability: 0*	*Flammability: 0*	*Flammability: 2*
Reactivity hazard: 0	*Reactivity hazard:* 0	*Reactivity hazard:* 0	*Reactivity hazard:* 0	*Reactivity hazard:* 0

3. Composition / Information on Ingredients

Ingredients/Components:

Chemical Name:	*Description*	*CAS Number:*
Component A	Contains DMSO	67-68-5
Component B	Contains DMSO	67-68-5
Component C	Proprietary	NA
Component D	Proprietary	NA
Component E	Contains DMSO	67-68-5

4. First Aid Measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Component A, B and E

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Skin: Wash off with soap and plenty of water. Consult a physician.

Eyes: Flush eyes with water as a precaution. Consult a physician.

Component C and D

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Skin: Wash off with soap and plenty of water. Consult a physician.

Eyes: Flush eyes with water as a precaution. Consult a physician.

5. Fire Fighting Measures

Extinguishing media:	**Component A, B and E:** For small fires, use dry chemical, or carbon dioxide. For large fires, use water spray from a safe distance. **Component C and D:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special firefighting procedures:	**Component A, B and E:** Fire fighters should wear positive pressure self-contained breathing apparatus and full turnout gear. **Component C and D:** Wear self-contained breathing apparatus for firefighting if necessary.
Unusual fire and explosions hazards:	**Component A, B and E:** Combustible liquid and vapor. Vapors are heavier than air and may travel to a source of ignition and flash back. Vapors can spread along the ground and collect in low or confined areas. Hazardous carbon oxides and sulphur oxides formed under fire conditions. **Component C and D:** No data available.

6. Accidental Release Measures

Containment and spill response	**Component A, B and E:** Immediately contact emergency personnel. Prevent further leakage or spillage if safe to do so. Avoid breathing vapors or mist. Remove all sources of ignition and provide ventilation. Collect with an electrically protected vacuum cleaner, by wet-brushing, or by absorbing with vermiculite, sand or earth, and place in appropriate container for disposal. Do not let material enter drains. Discharge into the environment must be avoided. **Component C and D:** Sweep up and shovel. Keep in suitable, closed containers for disposal.
PPE	Use personal protective equipment

7. Handling and Storage

Component A, B and E:

Handling: Wash thoroughly after handling. Remove and wash any contaminated clothing. Keep container tightly closed and avoid contact with eyes, skin, and clothing. Use with adequate ventilation and avoid ingestion and inhalation. Keep away from heat and flame.

Storage: Store in a tightly closed container away from moisture, heat, and flame. Store away from incompatible substances. Storage under a nitrogen blanket has been recommended.

Component C and D:

Handling: Avoid contact with skin and eyes.

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

8. Exposure Controls / Personal Protection

Engineering controls	**Component A, B and E:** Facilities storing and using this material should be equipped with a safety shower and eyewash station. Adequate ventilation should also be present. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. **Component C and D:** General industrial hygiene practice.
PPE	**Components A, B, C, D, E** *Eye/face protection* Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). *Skin protection* Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. *Body Protection* Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. *Respiratory protection* Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). *Control of environmental exposure* No special environmental precautions required.

9. Physical and Chemical Properties

Physical State	Liquid
Odor	Not determined
Solubility in Water	Soluble
Specific Gravity	Not determined
pH	Component D: 5.9
Boiling Point	Not determined
Melting Point	Not determined
Flash Point	Not determined
Vapor Pressure:	Not determined
Vapor Density:	Not determined

10. Stability and Reactivity

Thermal Decomposition	Not applicable
Dangerous Products of Decomposition	Not applicable
Dangerous Reactions	Not applicable

11.Toxicological Information

RTECS Number	**Component A, B and E**: PV6210000 **Component C, D:** No data available.
Toxicity	***Component A, B and E** contain DMSO.* *For **DMSO*** Oral LD50 LD50 Oral - rat - 14,500 mg/kg Inhalation LC50 LC50 Inhalation - rat - 4 h - 40250 ppm Dermal LD50 LD50 Dermal - rabbit - > 5,000 mg/kg **Component C, D:** No data available.
Health Hazards	No data available.
Potential Hazards	*Inhalation*: May be harmful if inhaled. Causes respiratory tract irritation. *Ingestion*: Harmful if swallowed. *Skin:* May be harmful if absorbed through skin. May cause skin irritation. *Eyes: C*auses eye irritation. Aggravated Medical Condition: Avoid contact with DMSO solutions containing toxic materials or materials with unknown toxicological properties. Dimethyl sulfoxide is readily absorbed through skin and may carry such materials into the body.
Carcinogenicity:	No data available
OSHA Permissible Exposure Limit(PEL) Data	No data available
ACGIH Threshold Limit Values (TLV)	No data available

12. Ecological Information

Toxicity
Component A, B and E : (contain DMSO)
Dimethyl sulfoxide (DMSO) CAS-No. 67-68-5
Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 34,000 mg/l - 96 h
LC50 - Oncorhynchus mykiss (rainbow trout) - 35,000 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates. EC50 - Daphnia pulex (Water flea) - 27,500 mg/l
Toxicity to algae EC50 - Lepomis macrochirus (Bluegill) - > 400,000 mg/l - 96 h
Component C and D*:* No data available.
Persistence and degradability
No data available
Bio accumulative potential
No data available
Mobility in soil
No data available
PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
Other adverse effects
No data available

13. Disposal Considerations

The combustible material (Component A, B and E) may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging
Dispose of as unused product.

14. Transport Information

UN Number	N/A
Hazard Class	N/A
Packing Group	N/A
Proper Shipping Name (DOT)	N/A

15. Regulatory information

California Proposition 65	N/A
US TSCA (Toxic Substance Control Act)	**All components**: Listed
US CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act)	**Component A, B and E**: 261.33 8(d). **Component C and D**: N/A
US SARA Title III	**Component A, B and E** SARA 302 components: N/A SARA 313 components: N/A SARA 311/312 Hazards: Fire Hazard, Chronic Health Hazard **Component C and D** SARA 302 components: N/A SARA 313 components: N/A SARA 311/312 Hazards: N/A
US Clean Air Act	**All components** *Listed under Hazardous Air Pollutants: Not listed* *Listed under Class 1 Ozone Depletors: Not listed* *Listed under Class 2 Ozone Depletors: Not listed*
US Clean Water Act	**All components** *Listed under "Hazardous Substances": Not listed* *Listed under "Priority Pollutants": Not listed* *Listed under "Toxic Pollutants": Not listed*

US States: Right-to-Know: Listed in the following States:

Component A:	**Component B:**	**Component C:**	**Component D:**	**Component E:**
Pennsylvania Revision Date 2007-03-01 CAS 67-68-5	Pennsylvania Revision Date 2007-03-01 CAS 67-68-5	Pennsylvania CAS 7732-18-5 CAS 7365-45-9	Pennsylvania CAS 7732-18-5 CAS 7365-45-9	Pennsylvania Revision Date 2007-03-01 CAS 67-68-5
New Jersey Revision Date 2007-03-01 CAS 67-68-5	New Jersey Revision Date 2007-03-01 CAS 67-68-5	New Jersey CAS 7732-18-5 CAS 7365-45-9	New Jersey CAS 7732-18-5 CAS 7365-45-9	New Jersey Revision Date 2007-03-01 CAS 67-68-5
Massachusetts N/A	Massachusetts N/A	Massachusetts N/A	Massachusetts N/A	Massachusetts N/A

European/International Regulations:

	Component A:	**Component B:**	**Component C:**	**Component D:**	**Component E:**
EC EINECS	200-664-3	200-664-3	N/A	N/A	200-664-3
EC Risk statements	36/37/38	36/37/38	N/A	N/A	36/37/38
WGK	1	1	N/A	N/A	1
Canada-DSL/NDSL	Listed	Listed	N/A	N/A	Listed
Canada-WHMIS classification	D2B	D2B	N/A	N/A	D2B
Canada-Canadian Ingredient Disclosure List	Listed	Listed	N/A	N/A	Listed

16. Other Information

It is not intended for food, drug, household, agricultural or cosmetic use. A technically qualified individual experienced in handling potentially hazardous chemicals must supervise its use. The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. Users should make independent decisions regarding completeness of the information based on all sources available. AnaSpec shall not be held liable for any damage resulting from handling or from contact with the above product.