

SAFETY DATA SHEETS

LymphoTrack® Dx Assays - MiSeq™

This document includes the Safety Data Sheets for reagents included in LymphoTrack Dx - MiSeq Assays, Catalog Numbers listed below.

Catalog Number	Description
91210009	LymphoTrack Dx <i>IGH</i> FR1 Assay Kit A - MiSeq
91210039	LymphoTrack Dx <i>IGH</i> FR1 Assay Panel - MiSeq
91210059	LymphoTrack Dx <i>IGHV</i> Leader Somatic Hypermutation Assay Kit A - MiSeq
91210069	LymphoTrack Dx <i>IGHV</i> Leader Somatic Hypermutation Assay Panel - MiSeq
91210089	LymphoTrack Dx <i>IGH</i> FR2 Assay Kit A - MiSeq
91210099	LymphoTrack Dx <i>IGH</i> FR2 Assay Panel - MiSeq
91210109	LymphoTrack Dx <i>IGH</i> FR3 Assay Kit A - MiSeq
91210119	LymphoTrack Dx <i>IGH</i> FR3 Assay Panel - MiSeq
91210129	LymphoTrack Dx <i>IGH</i> FR1/2/3 Assay Kit A - MiSeq
91210139	LymphoTrack Dx <i>IGH</i> FR1/2/3 Assay Panel - MiSeq
91220009	LymphoTrackDx <i>IGK</i> Assay Kit A - MiSeq
91220019	LymphoTrack Dx <i>IGK</i> Assay Panel - MiSeq
92250009	LymphoTrack Dx <i>TRB</i> Assay Kit A - MiSeq
92250019	LymphoTrack Dx <i>TRB</i> Assay Panel - MiSeq
92270009	LymphoTrack Dx <i>TRG</i> Assay Panel - MiSeq
92270019	LymphoTrack Dx <i>TRG</i> Assay Kit A - MiSeq

Conforms to HCS 2021 – United States

SAFETY DATA SHEET



Section 1: Identification

GHS product identifier :	Part number :	Other means of identification :
<i>IGH</i> SHM Positive Control DNA	40880008	<i>IGH</i> SHM Positive Control DNA
<i>IGH</i> Positive Control	40880009	<i>IGH</i> Positive Control
<i>IGK</i> Positive	40880018	<i>IGK</i> Positive
<i>TRB</i> Positive Control	40880058	<i>TRB</i> Positive Control
NGS Negative Control	40920018	NGS Negative Control
<i>TRG</i> POS (+) Control	42270019	<i>TRG</i> POS (+) Control

Product type : Liquid

Relevant identified issues of the substance or mixture and uses advised against

Identified uses For use as qualitative PCR controls.

Restrictions on use : For professional users only.

Supplier's details : Invivoscribe, Inc.
10222 Barnes Canyon Road, Building 1
San Diego, CA
92121 USA
Tel: 1 858 224 6000
Toll Free: 1 866 623 8105
Email: customerservice@invivoscribe.com
Website: invivoscribe.com

Emergency telephone (with hours of operation) : 1 866 623 8105
8 AM – 5 PM PST

Section 2. Hazards Identification

OSHA/HCS status : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910:1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture : Not classified.

GHS label elements

Signal word : No signal word.
Hazard statements : No known significant effects or critical hazards.

Precautionary statements

Prevention : Not applicable.
Response : Not applicable.
Storage : Not applicable.
Disposal : Not applicable.

Hazards not otherwise classified : None known.

Section 3. Compositions/information on ingredients

Substance/mixture : Mixture
Other means of identification : Not available.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- Skin contact** : Flush contaminated skin with plenty of water. Get medical attention if symptoms occur.
- Ingestion** : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.
- Protection of first aiders** : No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.
- Specific hazards arising from the chemical** : In a fire or if heated, a pressure increase will occur and the container may burst.
- Hazardous thermal decomposition products** : No specific data.
- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training.
- Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water soluble. Alternatively, or if water soluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8)..
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure to controls/personal protection

Control parameters

Occupational exposure limits

None.

- Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

Individual protection measures

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Section 8. Exposure to controls/personal protection

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicated this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. In contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Appearance

Physical state	: Liquid. [Clear.]
Color	: Colorless.
Odor	: Slight.
Odor threshold	: Not available.
pH	: Not available.
Melting/freezing point	: Not available.
Initial boiling point and boiling range	: Not available.
Flash point	: Does not flash.
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: Not available.
Solubility	: Not available.
Solubility in water	: Not available.
Partition coefficient: n-octanol/water	: Not applicable.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Not available.
Flow time (ISO 2431)	: Not available.

Section 10. Stability and reactivity

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

There is no data available.

Irritation/Corrosion

There is no data available.

Sensitization

There is no data available.

Mutagenicity

There is no data available.

Carcinogenicity

There is no data available.

Reproductive toxicity

There is no data available.

Teratogenicity

There is no data available.

Specific Target organ toxicity (single exposure)

There is no data available.

Specific Target organ toxicity (repeated exposure)

There is no data available.

Aspiration hazard

There is no data available.

Information on the likely routes of exposure : Routes on entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : No known significant effects or critical hazards.

Potential delayed effects : No known significant effects or critical hazards.

Long term exposure

Potential immediate effects : No known significant effects or critical hazards.

Potential delayed effects : No known significant effects or critical hazards.

Potential chronic health effects

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

There is no data available.

Section 12. Ecological information

Toxicity

There is no data available.

Persistence and degradability

There is no data available.

Bioaccumulative potential

There is no data available.

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solution and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental Hazards	No.	No.	No.

AERG : Not applicable

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transportation in bulk according to IMO instruments : Not available.

Section 15. Regulatory information

U.S. Federal regulations : **TSCA 8(a) CDR Exempt/Partial exemption:** Not determined.
Clean Water Act (CWA) 311: Edetic Acid; Hydrochloric Acid.

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

Name	%	EHS	SARA 302 TPQ		SARA 304 RQ	
			(lbs)	(gallons)	(lbs)	(gallons)
Hydrochloric acid	≤0.001	Yes.	500	-	5000	-

SARA 304 RQ : 634763213.6 lbs / 288182499 kg

Section 15. Regulatory information

SARA 311/312

Classification : Not applicable.
Composition/information on ingredients : No products were found

State regulations

Massachusetts : None of the components are listed.
New York : None of the components are listed.
New Jersey : None of the components are listed.
Pennsylvania : None of the components are listed.
California Prop. 65 : This product does not require a Safe Harbor warning under California Prop. 65.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not Listed.

Montreal Protocol

Not Listed.

Stockholm Convention on Persistent Organic Pollutants

Not Listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not Listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not Listed.

Inventory list

United States (TSCA 8b) : All components are active or exempted.

Section 16. Other information

Procedure used to derive the classification

Classification	Justification
Not classified.	

History

Date of issue/Date of revision : 4/15/2021
Date of previous issue : Not applicable.
Version : 1
Internal code : 651-004
Prepared by : Invivoscribe, Inc.

Key to abbreviations

: ATE = Acute Toxicity Estimate
 BCF = Bioconcentration Factor
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IATA = International Air Transport Association
 IBC = Intermediate Bulk Container
 IMGD = International Maritime Dangerous Goods
 LogPow = logarithm of the octanol/water partition coefficient
 MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978 ("Marpol" = maritime pollution)
 N/A = Not available
 SGG = Segregation Group
 UN = United Nations

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

SAFETY DATA SHEET



Section 1: Identification

GHS product identifier	Part number	Other means of identification
<i>IGH FR1 MiSeq 01</i>	21210009CE	<i>IGH FR1 MiSeq 01</i>
<i>IGH FR1 MiSeq 02</i>	21210019CE	<i>IGH FR1 MiSeq 02</i>
<i>IGH FR1 MiSeq 03</i>	21210029CE	<i>IGH FR1 MiSeq 03</i>
<i>IGH FR1 MiSeq 04</i>	21210039CE	<i>IGH FR1 MiSeq 04</i>
<i>IGH FR1 MiSeq 05</i>	21210049CE	<i>IGH FR1 MiSeq 05</i>
<i>IGH FR1 MiSeq 06</i>	21210059CE	<i>IGH FR1 MiSeq 06</i>
<i>IGH FR1 MiSeq 07</i>	21210069CE	<i>IGH FR1 MiSeq 07</i>
<i>IGH FR1 MiSeq 08</i>	21210079CE	<i>IGH FR1 MiSeq 08</i>
<i>IGH FR1 MiSeq 09</i>	21210089CE	<i>IGH FR1 MiSeq 09</i>
<i>IGH FR1 MiSeq 10</i>	21210099CE	<i>IGH FR1 MiSeq 10</i>
<i>IGH FR1 MiSeq 11</i>	21210109CE	<i>IGH FR1 MiSeq 11</i>
<i>IGH FR1 MiSeq 12</i>	21210119CE	<i>IGH FR1 MiSeq 12</i>
<i>IGH FR1 MiSeq 13</i>	21210129CE	<i>IGH FR1 MiSeq 13</i>
<i>IGH FR1 MiSeq 14</i>	21210139CE	<i>IGH FR1 MiSeq 14</i>
<i>IGH FR1 MiSeq 15</i>	21210149CE	<i>IGH FR1 MiSeq 15</i>
<i>IGH FR1 MiSeq 16</i>	21210159CE	<i>IGH FR1 MiSeq 16</i>
<i>IGH FR1 MiSeq 18</i>	21210169CE	<i>IGH FR1 MiSeq 18</i>
<i>IGH FR1 MiSeq 19</i>	21210179CE	<i>IGH FR1 MiSeq 19</i>
<i>IGH FR1 MiSeq 20</i>	21210189CE	<i>IGH FR1 MiSeq 20</i>
<i>IGH FR1 MiSeq 21</i>	21210199CE	<i>IGH FR1 MiSeq 21</i>
<i>IGH FR1 MiSeq 22</i>	21210209CE	<i>IGH FR1 MiSeq 22</i>
<i>IGH FR1 MiSeq 23</i>	21210219CE	<i>IGH FR1 MiSeq 23</i>
<i>IGH FR1 MiSeq 25</i>	21210229CE	<i>IGH FR1 MiSeq 25</i>
<i>IGH FR1 MiSeq 27</i>	21210239CE	<i>IGH FR1 MiSeq 27</i>
<i>IGH Leader MiSeq 01</i>	21210249CE	<i>IGH Leader MiSeq 01</i>
<i>IGH Leader MiSeq 02</i>	21210259CE	<i>IGH Leader MiSeq 02</i>
<i>IGH Leader MiSeq 03</i>	21210269CE	<i>IGH Leader MiSeq 03</i>
<i>IGH Leader MiSeq 04</i>	21210279CE	<i>IGH Leader MiSeq 04</i>
<i>IGH Leader MiSeq 05</i>	21210289CE	<i>IGH Leader MiSeq 05</i>
<i>IGH Leader MiSeq 06</i>	21210299CE	<i>IGH Leader MiSeq 06</i>
<i>IGH Leader MiSeq 07</i>	21210309CE	<i>IGH Leader MiSeq 07</i>
<i>IGH Leader MiSeq 08</i>	21210319CE	<i>IGH Leader MiSeq 08</i>
<i>IGH Leader MiSeq 09</i>	21210329CE	<i>IGH Leader MiSeq 09</i>
<i>IGH Leader MiSeq 10</i>	21210339CE	<i>IGH Leader MiSeq 10</i>
<i>IGH Leader MiSeq 11</i>	21210349CE	<i>IGH Leader MiSeq 11</i>
<i>IGH Leader MiSeq 12</i>	21210359CE	<i>IGH Leader MiSeq 12</i>
<i>IGH Leader MiSeq 13</i>	21210369CE	<i>IGH Leader MiSeq 13</i>
<i>IGH Leader MiSeq 14</i>	21210379CE	<i>IGH Leader MiSeq 14</i>
<i>IGH Leader MiSeq 15</i>	21210389CE	<i>IGH Leader MiSeq 15</i>
<i>IGH Leader MiSeq 16</i>	21210399CE	<i>IGH Leader MiSeq 16</i>
<i>IGH Leader MiSeq 18</i>	21210409CE	<i>IGH Leader MiSeq 18</i>
<i>IGH Leader MiSeq 19</i>	21210419CE	<i>IGH Leader MiSeq 19</i>
<i>IGH Leader MiSeq 20</i>	21210429CE	<i>IGH Leader MiSeq 20</i>
<i>IGH Leader MiSeq 21</i>	21210439CE	<i>IGH Leader MiSeq 21</i>
<i>IGH Leader MiSeq 22</i>	21210449CE	<i>IGH Leader MiSeq 22</i>
<i>IGH Leader MiSeq 23</i>	21210459CE	<i>IGH Leader MiSeq 23</i>

Section 1: Identification

GHS product identifier	Part number	Other means of identification
<i>IGH</i> Leader MiSeq 25	21210469CE	<i>IGH</i> Leader MiSeq 25
<i>IGH</i> Leader MiSeq 27	21210479CE	<i>IGH</i> Leader MiSeq 27
<i>IGH</i> FR2 MiSeq 01	21210489CE	<i>IGH</i> FR2 MiSeq 01
<i>IGH</i> FR2 MiSeq 02	21210499CE	<i>IGH</i> FR2 MiSeq 02
<i>IGH</i> FR2 MiSeq 03	21210509CE	<i>IGH</i> FR2 MiSeq 03
<i>IGH</i> FR2 MiSeq 04	21210519CE	<i>IGH</i> FR2 MiSeq 04
<i>IGH</i> FR2 MiSeq 05	21210529CE	<i>IGH</i> FR2 MiSeq 05
<i>IGH</i> FR2 MiSeq 06	21210539CE	<i>IGH</i> FR2 MiSeq 06
<i>IGH</i> FR2 MiSeq 07	21210549CE	<i>IGH</i> FR2 MiSeq 07
<i>IGH</i> FR2 MiSeq 08	21210559CE	<i>IGH</i> FR2 MiSeq 08
<i>IGH</i> FR2 MiSeq 09	21210569CE	<i>IGH</i> FR2 MiSeq 09
<i>IGH</i> FR2 MiSeq 10	21210579CE	<i>IGH</i> FR2 MiSeq 10
<i>IGH</i> FR2 MiSeq 11	21210589CE	<i>IGH</i> FR2 MiSeq 11
<i>IGH</i> FR2 MiSeq 12	21210599CE	<i>IGH</i> FR2 MiSeq 12
<i>IGH</i> FR2 MiSeq 13	21210609CE	<i>IGH</i> FR2 MiSeq 13
<i>IGH</i> FR2 MiSeq 14	21210619CE	<i>IGH</i> FR2 MiSeq 14
<i>IGH</i> FR2 MiSeq 15	21210629CE	<i>IGH</i> FR2 MiSeq 15
<i>IGH</i> FR2 MiSeq 16	21210639CE	<i>IGH</i> FR2 MiSeq 16
<i>IGH</i> FR2 MiSeq 18	21210649CE	<i>IGH</i> FR2 MiSeq 18
<i>IGH</i> FR2 MiSeq 19	21210659CE	<i>IGH</i> FR2 MiSeq 19
<i>IGH</i> FR2 MiSeq 20	21210669CE	<i>IGH</i> FR2 MiSeq 20
<i>IGH</i> FR2 MiSeq 21	21210679CE	<i>IGH</i> FR2 MiSeq 21
<i>IGH</i> FR2 MiSeq 22	21210689CE	<i>IGH</i> FR2 MiSeq 22
<i>IGH</i> FR2 MiSeq 23	21210699CE	<i>IGH</i> FR2 MiSeq 23
<i>IGH</i> FR2 MiSeq 25	21210709CE	<i>IGH</i> FR2 MiSeq 25
<i>IGH</i> FR2 MiSeq 27	21210719CE	<i>IGH</i> FR2 MiSeq 27
<i>IGH</i> FR3 MiSeq 01	21210729CE	<i>IGH</i> FR3 MiSeq 01
<i>IGH</i> FR3 MiSeq 02	21210739CE	<i>IGH</i> FR3 MiSeq 02
<i>IGH</i> FR3 MiSeq 03	21210749CE	<i>IGH</i> FR3 MiSeq 03
<i>IGH</i> FR3 MiSeq 04	21210759CE	<i>IGH</i> FR3 MiSeq 04
<i>IGH</i> FR3 MiSeq 05	21210769CE	<i>IGH</i> FR3 MiSeq 05
<i>IGH</i> FR3 MiSeq 06	21210779CE	<i>IGH</i> FR3 MiSeq 06
<i>IGH</i> FR3 MiSeq 07	21210789CE	<i>IGH</i> FR3 MiSeq 07
<i>IGH</i> FR3 MiSeq 08	21210799CE	<i>IGH</i> FR3 MiSeq 08
<i>IGH</i> FR3 MiSeq 09	21210809CE	<i>IGH</i> FR3 MiSeq 09
<i>IGH</i> FR3 MiSeq 10	21210819CE	<i>IGH</i> FR3 MiSeq 10
<i>IGH</i> FR3 MiSeq 11	21210829CE	<i>IGH</i> FR3 MiSeq 11
<i>IGH</i> FR3 MiSeq 12	21210839CE	<i>IGH</i> FR3 MiSeq 12
<i>IGH</i> FR3 MiSeq 13	21210849CE	<i>IGH</i> FR3 MiSeq 13
<i>IGH</i> FR3 MiSeq 14	21210859CE	<i>IGH</i> FR3 MiSeq 14
<i>IGH</i> FR3 MiSeq 15	21210869CE	<i>IGH</i> FR3 MiSeq 15
<i>IGH</i> FR3 MiSeq 16	21210879CE	<i>IGH</i> FR3 MiSeq 16
<i>IGH</i> FR3 MiSeq 18	21210889CE	<i>IGH</i> FR3 MiSeq 18
<i>IGH</i> FR3 MiSeq 19	21210899CE	<i>IGH</i> FR3 MiSeq 19
<i>IGH</i> FR3 MiSeq 20	21210909CE	<i>IGH</i> FR3 MiSeq 20
<i>IGH</i> FR3 MiSeq 21	21210919CE	<i>IGH</i> FR3 MiSeq 21
<i>IGH</i> FR3 MiSeq 22	21210929CE	<i>IGH</i> FR3 MiSeq 22
<i>IGH</i> FR3 MiSeq 23	21210939CE	<i>IGH</i> FR3 MiSeq 23
<i>IGH</i> FR3 MiSeq 25	21210949CE	<i>IGH</i> FR3 MiSeq 25

Section 1: Identification

GHS product identifier	Part number	Other means of identification
<i>IGH</i> FR3 MiSeq 27	21210959CE	<i>IGH</i> FR3 MiSeq 27
<i>IGK</i> MiSeq 01	21220009CE	<i>IGK</i> MiSeq 01
<i>IGK</i> MiSeq 02	21220019CE	<i>IGK</i> MiSeq 02
<i>IGK</i> MiSeq 03	21220029CE	<i>IGK</i> MiSeq 03
<i>IGK</i> MiSeq 04	21220039CE	<i>IGK</i> MiSeq 04
<i>IGK</i> MiSeq 05	21220049CE	<i>IGK</i> MiSeq 05
<i>IGK</i> MiSeq 06	21220059CE	<i>IGK</i> MiSeq 06
<i>IGK</i> MiSeq 07	21220069CE	<i>IGK</i> MiSeq 07
<i>IGK</i> MiSeq 08	21220079CE	<i>IGK</i> MiSeq 08
<i>IGK</i> MiSeq 09	21220089CE	<i>IGK</i> MiSeq 09
<i>IGK</i> MiSeq 10	21220099CE	<i>IGK</i> MiSeq 10
<i>IGK</i> MiSeq 11	21220109CE	<i>IGK</i> MiSeq 11
<i>IGK</i> MiSeq 12	21220119CE	<i>IGK</i> MiSeq 12
<i>IGK</i> MiSeq 13	21220129CE	<i>IGK</i> MiSeq 13
<i>IGK</i> MiSeq 14	21220139CE	<i>IGK</i> MiSeq 14
<i>IGK</i> MiSeq 15	21220149CE	<i>IGK</i> MiSeq 15
<i>IGK</i> MiSeq 16	21220159CE	<i>IGK</i> MiSeq 16
<i>IGK</i> MiSeq 18	21220169CE	<i>IGK</i> MiSeq 18
<i>IGK</i> MiSeq 19	21220179CE	<i>IGK</i> MiSeq 19
<i>IGK</i> MiSeq 20	21220189CE	<i>IGK</i> MiSeq 20
<i>IGK</i> MiSeq 21	21220199CE	<i>IGK</i> MiSeq 21
<i>IGK</i> MiSeq 22	21220209CE	<i>IGK</i> MiSeq 22
<i>IGK</i> MiSeq 23	21220219CE	<i>IGK</i> MiSeq 23
<i>IGK</i> MiSeq 25	21220229CE	<i>IGK</i> MiSeq 25
<i>IGK</i> MiSeq 27	21220239CE	<i>IGK</i> MiSeq 27
<i>TRB</i> MiSeq 01	22250009CE	<i>TRB</i> MiSeq 01
<i>TRB</i> MiSeq 02	22250019CE	<i>TRB</i> MiSeq 02
<i>TRB</i> MiSeq 03	22250029CE	<i>TRB</i> MiSeq 03
<i>TRB</i> MiSeq 04	22250039CE	<i>TRB</i> MiSeq 04
<i>TRB</i> MiSeq 05	22250049CE	<i>TRB</i> MiSeq 05
<i>TRB</i> MiSeq 06	22250059CE	<i>TRB</i> MiSeq 06
<i>TRB</i> MiSeq 07	22250069CE	<i>TRB</i> MiSeq 07
<i>TRB</i> MiSeq 08	22250079CE	<i>TRB</i> MiSeq 08
<i>TRB</i> MiSeq 09	22250089CE	<i>TRB</i> MiSeq 09
<i>TRB</i> MiSeq 10	22250099CE	<i>TRB</i> MiSeq 10
<i>TRB</i> MiSeq 11	22250109CE	<i>TRB</i> MiSeq 11
<i>TRB</i> MiSeq 12	22250119CE	<i>TRB</i> MiSeq 12
<i>TRB</i> MiSeq 13	22250129CE	<i>TRB</i> MiSeq 13
<i>TRB</i> MiSeq 14	22250139CE	<i>TRB</i> MiSeq 14
<i>TRB</i> MiSeq 15	22250149CE	<i>TRB</i> MiSeq 15
<i>TRB</i> MiSeq 16	22250159CE	<i>TRB</i> MiSeq 16
<i>TRB</i> MiSeq 18	22250169CE	<i>TRB</i> MiSeq 18
<i>TRB</i> MiSeq 19	22250179CE	<i>TRB</i> MiSeq 19
<i>TRB</i> MiSeq 20	22250189CE	<i>TRB</i> MiSeq 20
<i>TRB</i> MiSeq 21	22250199CE	<i>TRB</i> MiSeq 21
<i>TRB</i> MiSeq 22	22250209CE	<i>TRB</i> MiSeq 22
<i>TRB</i> MiSeq 23	22250219CE	<i>TRB</i> MiSeq 23
<i>TRB</i> MiSeq 25	22250229CE	<i>TRB</i> MiSeq 25
<i>TRB</i> MiSeq 27	22250239CE	<i>TRB</i> MiSeq 27

Section 1: Identification

GHS product identifier	Part number	Other means of identification
TRG MiSeq 01	22270019CE	TRG MiSeq 01
TRG MiSeq 02	22270029CE	TRG MiSeq 02
TRG MiSeq 03	22270039CE	TRG MiSeq 03
TRG MiSeq 04	22270049CE	TRG MiSeq 04
TRG MiSeq 05	22270059CE	TRG MiSeq 05
TRG MiSeq 06	22270069CE	TRG MiSeq 06
TRG MiSeq 07	22270079CE	TRG MiSeq 07
TRG MiSeq 08	22270089CE	TRG MiSeq 08
TRG MiSeq 09	22270099CE	TRG MiSeq 09
TRG MiSeq 10	22270109CE	TRG MiSeq 10
TRG MiSeq 11	22270119CE	TRG MiSeq 11
TRG MiSeq 12	22270129CE	TRG MiSeq 12
TRG MiSeq 13	22270139CE	TRG MiSeq 13
TRG MiSeq 14	22270149CE	TRG MiSeq 14
TRG MiSeq 15	22270159CE	TRG MiSeq 15
TRG MiSeq 16	22270169CE	TRG MiSeq 16
TRG MiSeq 18	22270189CE	TRG MiSeq 18
TRG MiSeq 19	22270199CE	TRG MiSeq 19
TRG MiSeq 20	22270209CE	TRG MiSeq 20
TRG MiSeq 21	22270219CE	TRG MiSeq 21
TRG MiSeq 22	22270229CE	TRG MiSeq 22
TRG MiSeq 23	22270239CE	TRG MiSeq 23
TRG MiSeq 25	22270259CE	TRG MiSeq 25
TRG MiSeq 27	22270279CE	TRG MiSeq 27

Product type : Liquid

Relevant identified issues of the substance or mixture and uses advised against

Identified uses For amplification of gene rearrangements.

Restrictions on use : For professional users only.

Supplier's details : Invivoscribe, Inc.
 10222 Barnes Canyon Road, Building 1
 San Diego, CA
 92121 USA
 Tel: 1 858 224 6000
 Toll Free: 1 866 623 8105
 Email: customerservice@invivoscribe.com
 Website: invivoscribe.com

Emergency telephone (with hours of operation) : 1 866 623 8105
 8 AM – 5 PM PST

Section 2: Hazards Identification

OSHA/HCS status : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910:1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture : Not classified.

GHS label elements

Signal word : No signal word.

Hazard statements : No known significant effects or critical hazards.

Section 2. Hazards Identification

Precautionary statements

Prevention	:	Not applicable.
Response	:	Not applicable.
Storage	:	Not applicable.
Disposal	:	Not applicable.
Hazards not otherwise classified	:	None known.

Section 3. Compositions/information on ingredients

Substance/mixture	:	Mixture
Other means of identification	:	Not available.

Ingredient Name	%	CAS Number
Dimethyl Sulfoxide	≥1 - ≤3	67-68-5

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	:	Flush contaminated skin with plenty of water. Get medical attention if symptoms occur.
Ingestion	:	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	:	No known significant effects or critical hazards.
Inhalation	:	No known significant effects or critical hazards.
Skin contact	:	No known significant effects or critical hazards.
Ingestion	:	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	:	No known significant effects or critical hazards.
Inhalation	:	No known significant effects or critical hazards.
Skin contact	:	No known significant effects or critical hazards.
Ingestion	:	No known significant effects or critical hazards.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	:	No specific treatment.
Protection of first aiders	:	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.
- Specific hazards arising from the chemical** : In a fire or if heated, a pressure increase will occur and the container may burst.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
sulfur oxides
- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training.
Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water soluble. Alternatively, or if water soluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8).
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure to controls/personal protection

Control parameters

Occupational exposure limits

Ingredient Name	Exposure limits
Dimethyl sulfoxide	AIHA WEEL (United States, 7/2018). TWA: 250 ppm 8 hours

- Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

Individual protection measures

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location..
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicated this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. In contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Appearance

Physical state	: Liquid. [Clear.]
Color	: Colorless, light yellow, light pink, light blue or light orange.
Odor	: Odorless.
Odor threshold	: Not available.
pH	: 7 to 9.5.
Melting/freezing point	: Not available.
Initial boiling point and boiling range	: Not available.
Flash point	: Does not flash.
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: Not available.
Solubility	: Not available.
Solubility in water	: Not available.
Partition coefficient: n-octanol/water	: Not applicable.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Not available.
Flow time (ISO 2431)	: Not available.

Section 10. Stability and reactivity

Reactivity :	No specific test data related to reactivity for this product or its ingredients.
Chemical stability :	The product is stable.
Possibility of hazardous reactions :	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid :	No specific data.
Incompatible materials :	Reactive or incompatible with the following materials: oxidizing materials.
Hazardous decomposition products :	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Dimethyl sulfoxide	LD50	Rat	40000 mg/kg	-
	Dermal	Rat	14500 mg/kg	-
	LD50 Oral			

Irritation/Corrosion

There is no data available.

Sensitization

There is no data available.

Mutagenicity

There is no data available.

Carcinogenicity

There is no data available.

Reproductive toxicity

There is no data available.

Teratogenicity

There is no data available.

Specific Target organ toxicity (single exposure)

There is no data available.

Specific Target organ toxicity (repeated exposure)

There is no data available.

Aspiration hazard

There is no data available.

Information on the likely routes of exposure

: Routes on entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

Eye contact :	No known significant effects or critical hazards.
Inhalation :	No known significant effects or critical hazards.
Skin contact :	No known significant effects or critical hazards.
Ingestion :	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact :	No known significant effects or critical hazards.
Inhalation :	No known significant effects or critical hazards.
Skin contact :	No known significant effects or critical hazards.
Ingestion :	No known significant effects or critical hazards.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects :	No known significant effects or critical hazards.
Potential delayed effects :	No known significant effects or critical hazards.

Section 11. Toxicological information

Long term exposure

- Potential immediate effects : No known significant effects or critical hazards.
 Potential delayed effects : No known significant effects or critical hazards.

Potential chronic health effects

- General : No known significant effects or critical hazards.
 Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Reproductive toxicity : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Dimethyl sulfoxide	14500	40000	N/A	N/A	N/A

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Dimethyl sulfoxide	Acute EC50 18299 µg/L Marine water	Algae – Nitzschia pungens	96 hour
	Acute LC50 37.437 mg/L Marine water	Crustaceans – Artemia sp.	48 hours
	Acute LC50 25000 ppm Fresh water	Daphnie – Daphnia magna – Neonate	48 hours
	Acute LC50 34000000 µg/L Fresh water	Fish – Pimephales promelas	96 hours
	Chronic NOEC 3323 µg/L Marine water	Algae – Nitzschia pungens	96 hours
	Chronic NOEC 100 µl/L Fresh water	Daphnia – Daphnia magna – Juvenile (Fledgling, Hatchling, Weanling)	21 days

Persistence and degradability

There is no data available.

Bioaccumulative potential

Product/ingredient name	LogP	BCF	Potential
Dimethyl sulfoxide	-1.35	3.16	low

Mobility in soil

- Soil/water partition coefficient (K_{oc}) : Not available.
 Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

- Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solution and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental Hazards	No.	No.	No.

AERG : Not applicable

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transportation in bulk according to IMO instruments : Not available.

Section 15. Regulatory information

U.S. Federal regulations : TSCA 8(a) CDR Exempt/Partial exemption: Not determined.
Clean Water Act (CWA) 311: Hydrochloric Acid.

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Listed
Clean Air Act Section 602 Class I Substances : Not listed
Clean Air Act Section 602 Class II Substances : Not listed
DEA List I Chemicals (Precursor Chemicals) : Not listed
DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

Name	%	EHS	SARA 302 TPQ		SARA 304 RQ	
			(lbs)	(gallons)	(lbs)	(gallons)
Hydrochloric acid	≤0.0025	Yes.	500	-	5000	-

SARA 304 RQ : 277831623,1 lbs / 126135556,9 kg

SARA 311/312

Classification : Not applicable.

Composition/information on ingredients

No products were found

State regulations

Massachusetts : None of the components are listed.
New York : None of the components are listed.
New Jersey : The components are listed: Dimethyl sulfoxide.
Pennsylvania : None of the components are listed.
California Prop. 65 : This product does not require a Safe Harbor warning under California Prop. 65.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not Listed.

Montreal Protocol

Not Listed.

Stockholm Convention on Persistent Organic Pollutants

Not Listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not Listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not Listed.

Inventory list

United States (TSCA 8b) : All components are active or exempted.

Section 16. Other information

Procedure used to derive the classification

Classification	Justification
Not classified.	

History

Date of issue/Date of revision	: 4/15/2021
Date of previous issue	: Not applicable.
Version	: 1
Internal code	: 651-005
Prepared by	: Invivoscribe, Inc..
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Intermediate Bulk Container IMGD = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978 ("Marpol" = maritime pollution) N/A = Not available SGG = Segregation Group UN = United Nations

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.