



MATERIAL SAFETY DATA SHEET In accordance with (EU) 2015/830

SECTION 1. IDENTIFICATION

Product name	GT XDetector Allelic Ladder
Manufacturer or supplier's details	GENETEK BIOPHARMA GmbH. Schwarzschildstraße 6. 12489 Berlin, Germany
Telephone	0049-3063927050
Responsible Department	GENETEK BIOPHARMA GmbH. Schwarzschildstraße 6. 12489 Berlin, Germany
Responsible/issuing person	Prof. Sirous Zeinali
E-mail address	zeinali@genetek.de
Recommended use of the chemical	Laboratory chemicals

SECTION 2. COMPOSITION/ INFORMATION ON INGREDIENTS

Within the best of the supplier's current knowledge, the product does not contain any substances, which at their given concentrations are considered hazardous to health.

We recommend handling all chemicals with caution.

SECTION 3. HAZARD(S) IDENTIFICATION

Classification according to GHS	Not Hazardous
Health hazards	None
Environmental hazards	None
Label elements	
Labelling according to Regulation (EC) No 1272/2008 [CLP]	
Hazard pictogram	None
Signal Word	None
Hazard Statements	Not Applicable

SECTION 4. FIRST AID AND MEASURES

General advice	Show this material safety data sheet to the doctor in attendance.
If inhaled	Move to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.
In case of skin contact	Wash off immediately plenty of water for at least 15 minutes. If symptoms persist, call a physician.
In case of eye contact	Rinse the exposed eye(s) and the under the eyelid(s) thoroughly with plenty of water for at least 15 minutes. Consult a physician if symptoms occur.
If swallowed	Rinse mouth with water and drink plenty of water afterwards. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician.
Most important symptoms and effects, both acute and delayed	Skin and eye irritation. Risk of respiratory and gastrointestinal issues.
Notes to physician	Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Use measures appropriate to the surrounding fire.
Specific hazards during fire fighting	No data available.
Hazardous combustion products	No data available.
Special protective equipment for fire-fighters	Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Put on appropriate personal protective material. Avoid contact with skin and the eyes. Avoid breathing vapors, mist or gas. If the ventilation is not sufficient, wear appropriate ventilator.
Methods for cleaning up	Restrain spillage or leakage if safe to do so. Sweep up and transfer to properly labelled suitable containers for disposal.
Advice on protection against fire and explosion	Normal measures for preventive fire protection.
Environmental precautions	Do not allow spilled material or runoff to get in contact with water sources or soil. Inform relevant authorities if the product leaked into the environment.

SECTION 7. HANDLING AND STORAGE

Advice on general occupational hygiene	Smoking, eating and drinking should be prohibited in the application area. Workers should make sure to wash hands and face before eating, drinking or smoking. Remove contaminated clothes before entering eating areas.
Advice on safe handling	Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Use appropriate personal protective equipment (Section 8).
Conditions for safe storage	Keep tightly closed in original container away from direct sunlight, in a cool, dry, well-ventilated area and away from incompatible materials (Section 10).
Recommended storage temperature	2-8°C

SECTION 8. EXPOSURE CONTROL/ PERSONAL PROTECTION

Ingredients with workplace control parameters contains	No data available
General protective and hygienic measures	Handle in accordance with good industrial hygiene and safety practice.
Engineering measures	Ventilation systems Eyewash stations Showers
Personal protective equipment	
Respiratory protection	Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Hand protection	Handle with gloves. Gloves must be inspected prior to use. To avoid skin contact with this product, remove gloves without touching the outer surface. Dispose contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Eye protection	Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical properties	Colorless liquid
Chemical properties	The product's chemical properties have not been fully investigated.

SECTION 10. STABILITY AND REACTIVITY

Reactivity	None known based on information available
Chemical stability	Stable under recommended storage conditions
Hazardous decomposition products	None known.
Conditions to avoid	No data available
Materials to avoid	No data available

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Oral toxicity	No specific test data available.
Acute Inhalation toxicity	No specific test data available.
Acute Dermal toxicity	No specific test data available.
Other information on acute toxicity	No data available
Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory sensitization	No data available
Skin sensitization	No data available
Ingestion	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	There are no known carcinogenic chemicals in this product.
Reproductive toxicity	No data available
STOT-single exposure	No data available
STOT-repeated exposure	No data available
Interactive effects	No data available
Aspiration toxicity	No data available
Further information	No data available.
Potential health effects	The toxicological properties have not been fully investigated.

SECTION 12. ECOLOGICAL INFORMATION

Toxicity to fish	No data available
Toxicity to algae	No data available
Toxicity to bacteria	No data available
Persistence and degradability	No data available
Bioaccumulation potential	No data available
Mobility in soil	The product is likely to be mobile in the environment due to its water solubility
Other adverse effects	No data available
Additional ecological information	No data available

SECTION 13. DISPOSAL CONSIDERATION

Disposal methods	Avoid disposal of the product directly into the environment. Treat appropriately in accordance with the local regulations before disposal.
Contaminated packaging	Avoid reusing empty containers.

SECTION 14. TRANSPORT INFORMATION

UNRTG	No data available
IATA- DGR	No data available
IMDG Code	No data available
SARA 302	No data available
SARA 304	No data available
SARA 311/312 Hazards	No data available
SARA 313	No data available
TSCA list	Not listed

SECTION 15. REGULATORY INFORMATION

853/2015 COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)

1272/2008 REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

89/391 COUNCIL DIRECTIVE (89/391/EEC of 12 June 1989 on the introduction of measures to encourage improvements in the safety and health of workers at work

1907/2006 REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC Annex I

SECTION 16. OTHER INFORMATION

ABBREVIATIONS

HCS	Hazard Communication Standard
OSHA	Occupational Safety and Health Administration
GSH	Globally Harmonized System of Classification and Labelling of Chemicals
IARC	International Agency for Research on Cancer
NTP	US National Toxicity Program
STOT	Specific Target Organ Toxicity
UNRTG	United Nations Recommendations on the Transport of Dangerous Goods
IATA-DGR	International Air Transport Association - Dangerous Goods Regulations
ADR	Transport of Dangerous Goods by Roads
DOT-US	US Department of Transportation
IMDG	International Maritime Dangerous Goods
MARPOL	International Convention for the Prevention of Pollution from Ships
TSCA	United States Toxic Substances Control Act 8(b) Inventory

IMPORTANT DISCLAIMER

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.