Safety Data Sheet

Issue date: 09/02/2016
Revision date: 02/09/2016
Version number: 1.0e
Revision number: 1.1e
Effective date of revised version: 01/10/2016

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Positive Control in Guanidine thiocyanate and Triton X-100
Other names or synonyms by which the substance or mixture is labelled or commonly known:
DNA Positive Control, RNA Positive Control, DNA IPC Target, RNA IPC Target; components of the products ViroReal®, BactoReal®, MycoReal or ParoReal

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

Relevant identified uses
Product for analytical purposes.
Relevant identified uses advised against
not known

1.3 Details of the supplier of the safety data sheet

Manufacturer: Ingenetix GmbH
Address: Arsenalstraße 11, 1030 Vienna, Austria
Telephone: +43(0)1 36 1980 198
Telefax: +43(0)1 36 1980 199
e-mail: office@ingenetix.com

1.4 Emergency telephone number

AT Poison centre Tel +43 (0) 1 406 43 43
DE Poison centre Tel. +49 (0)361 730 730
CH Tox Info Suisse Tel. 145/ international information Tel. +41 44 251 66 66

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Acute toxicity, oral (category 4)
Acute inhalation toxicity (category 4)
Skin irritant (category 4)
Serious eye damage (category 1)
Chronic aquatic toxicity (category 3)

2.2 Label elements

Classification of the substance according to Directive (EG) No. 1272/2008 [CLP]

Hazard pictogram:

Signal word: Danger

Indications of danger:

H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled.
H318 Causes serious eye damage.
H412 Harmful to aquatic life with long lasting effects.

Supplemental Hazard Statements:

EUH032 Contact with acids liberates very toxic gas.

Precautionary statements:

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P362 + P364 Take off contaminated clothing and wash it before reuse.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at a concentration equal to or greater than 0.1 %.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Substance	CAS Number	Weight %	EC-No.
Guanidine thiocyanate	593-84-0	60-70	209-812-1
Triton X-100	9002-93-1	20-25	

Chemical Name	CAS Number EC Number Registration Number	Classification (67/548/EEC)	Classification (Regulation (EC) No 1272/2008)	Concentration (%)
Guanidine thiocyanate	593-84-0 209-812-1	Xn; R20/21/22 R32 R52-R53	Acute Tox. 4; H302 Acute Tox. 4; H332 Acute Tox. 4; H312 Aquatic Chronic 3; H412	>= 50 - < 70
Triton X-100	9002-93-1	Xn; R22 Xi; R41	Acute Tox. 4; H302 Eye Dam. 1; H318	>= 20 - < 25

SECTION 4: First Aid Measures

4.1 Description of first aid measures

Following inhalation:
If inhaled remove exposed individual from the area to fresh air. If not breathing, give artificial respiration. If unconscious place in recovery position. Consult physician. Show this safety data sheet to the doctor in attendance.
Following skin contact:
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Remove clothing and shoes.
Following eye contact:
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Following ingestion:
Call a physician immediately. Never give anything by mouth to an unconscious person. Rinse mouth with water. Do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

not known

4.3 Indication of any immediate medical attention and special treatment needed

not applicable

SECTION 5: Firefighting measures

5.1 Extinguishing media

Dry powder

5.2 Special hazards arising from the substance or mixture

Carbon oxides, nitrogen oxides (NOx), sulphur oxides.

5.3 Advice for firefighters

In event of fire, wear self-contained breathing apparatus if necessary.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and material for containment and cleaning up

Never return spills in original containers for re-use. Soak up with absorbent material then place into a suitable closed container for disposal.

6.4 Reference to other sections

See Sections 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Observe general precautions for laboratory safety and hygiene. Wear personal protective equipment (gloves, laboratory coat) when handling substance. Avoid contact with eyes and skin.

7.2. Conditions for safe storage, including any incompatibilities
Store in original container following directions of storage conditions on label.

7.3. Specific end use(s)
not applicable

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
Contains no substances with occupational exposure limit values.

8.2. Exposure controls
Observe general precautions when handling chemicals. Wash hands before breaks and at the end of workday.
Skin protection: Always use protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Please observe the instructions regarding permeability and breakthrough time, which are provided by the supplier of the gloves. Inspect protective gloves before use. Use appropriate removal method of gloves (do not touch external glove surface) to avoid skin contact with product. Dispose used contaminated gloves within legal requirements and good laboratory practice. Wash and dry hands.
Body protection: Wear laboratory coat.
Eye-/face protection: Wear safety goggles. For eye protection use only equipment which has been tested and approved according to regulatory standards like NIOSH (US) or EN 166 (EU).
Hygiene measures: Do not eat, drink or smoke during work.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties
Appearance: liquid, colourless
Odour: odourless
pH: 6,0
Melting point/freezing point: no data available
Initial boiling point and boiling range: no data available
Flash point: no data available
Evaporation rate: no data available
Flammability: the product is not flammable
Upper/lower flammability or explosive limits: no data available
Vapour pressure: no data available
Vapour density: no data available
Relative density: no data available
Solubility(ies): no data available
Partition coefficient: n-octanol/water: no data available
Auto-ignition temperature: no data available
Decomposition temperature: no data available
Viscosity: no data available
Explosive properties: no data available
Oxidising properties: The substance or mixture is not classified as oxidizing.

9.2 Other information
no data available

SECTION 10: Stability and reactivity

10.1. Reactivity
Reacts with acids

10.2. Chemical stability
Stable under recommended storage conditions

10.3. Possibility of hazardous reactions
Contact with acids liberates very toxic gases

10.4. Conditions to avoid
Avoid contact with acids

10.5. Incompatible materials
Strong acids, strong oxidizing agents, cyanides

10.6. Hazardous decomposition products
Thermal decomposition can lead to release of irritating gases and vapours. Carbon oxides. Sulphur oxides. Nitrogen oxides. Cyanides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Components	LD50s oral rat
Triton X-100	= 1900 – 5000 mg/kg
Guanidine thiocyanate	= 593 mg/kg

SECTION 12: Ecological information

12.1. Toxicity
No data available

12.2. Persistence and degradability
No data available

12.3. Bioaccumulative potential
No data available

12.4. Mobility in soil
No data available

12.5. Results of PBT and vPvB assessment
No data available

12.6. Other adverse effects
Harmful to aquatic life

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Waste disposal must be in accordance with appropriate Federal, State and local regulations. Collect separately from acids (formation of poisonous gases). Residual amounts and non-reusable solutions of the mixture as well as contaminated packaging may be disposed of at a permitted facility. The product should not be allowed to enter drains, watercourses and soil.

SECTION 14: Transport information

14.1 UN Number
Not regulated as a dangerous good

14.2. UN proper shipping name
Not regulated as a dangerous good

14.3. Transport hazard class(es)
Not regulated as a dangerous good

14.4. Packing group
Not regulated as a dangerous good

14.5. Environmental hazards
Not regulated as a dangerous good

14.6. Special precautions for user
Not dangerous goods in the meaning of ADR/RID, ADNR, IMDG-Code, ICAO/IATA-DGR

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Not applicable

15.2. Chemical safety assessment
Not required for the specified applications.

SECTION 16: Other information

Full text of R-Phrases

R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R22	Harmful if swallowed.
R32	Contact with acids liberates very toxic gas.
R41	Risk of serious damage to eyes.
R52	Harmful to aquatic organisms.
R53	May cause long-term adverse effects in the aquatic environment.

Full text of H-Statements

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H412	Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox.	Acute toxicity
Aquatic Chronic	Chronic aquatic toxicity
Eye Dam.	Serious eye damage

Recommended restrictions of application

The application of this product is recommended for trained professionals only.

Further information

The information, data and recommendations contained herein are based upon information believed by Ingenetix GmbH after reasonable investigation and research, to be accurate. All materials and mixtures may present unknown hazards and should be used with caution. 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.

Revised safety data sheet

Changes with respect to the previous version made at the following text passages: address, phone and fax numbers of ingenetix GmbH.