

# SAFETY DATA SHEET



## 1. Product and company identification

**Product name:** InnoQuant®, InnoQuant® H-dye, InnoQuant® HY, and InnoQuant® HY-R DNA Quantification & Degradation Assessment Kits  
**Product code(s):** 21107-250, 21107-60; 21106-250, 21106-60; 21108-250, 21108-60; 21104-250, 21104-60  
**Material uses:** Analytical reagent  
**Supplier/Manufacturer:** InnoGenomics Technologies  
1441 Canal Street  
Suite #307  
New Orleans, LA 70112  
+1 504-598-5235

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

## 2. Hazards identification

**GHS – Classification:** Flammable Liquid 4 Acute Toxicity Oral 4 Skin Irritant 2 Eye Irritant 2  
**Signal Word:** Warning

### Health Hazard

|                           |            |
|---------------------------|------------|
| Skin Corrosion/Irritation | Category 3 |
|---------------------------|------------|

**Physical state:** liquid  
**Odor:** not available  
**Physical hazards:** not hazardous  
**Hazard statements:** H316 – Causes mild skin irritation H227 - Combustible liquid H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation H302 - Harmful if swallowed  
**Precautionary statements:** P332 + P313 – If skin irritation occurs: Get medical advice/attention P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking P280 - Wear protective gloves/protective clothing/eye protection/face protection P302+P352 - IF ON SKIN: Wash with plenty of soap and water P304 + P340 – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

### Principle Routes of Exposure/

**Potential Health effects:**  
Eyes: May cause eye irritation with susceptible persons.  
Skin: May cause skin irritation in susceptible persons.  
Inhalation: May be harmful by inhalation.  
Ingestion: May be harmful if swallowed.

**Specific effects:**  
Carcinogenic effects: none  
Mutagenic effects: none  
Reproductive toxicity: none

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Sensitization: none

Target Organ Effects: No known effects under normal use conditions.

## HMIS

|              |   |
|--------------|---|
| Health       | 1 |
| Flammability | 0 |
| Reactivity   | 0 |

## 3. Composition/information on ingredients

| Chemical Name      | CAS-No     | EINECS-No | Weight % |
|--------------------|------------|-----------|----------|
| Glycerol           | 56-81-5    | 200-289-5 | 10-30    |
| TRIS Base          | 77-86-1    | 201-064-4 | <1.0     |
| Sodium azide       | 26628-22-8 | 247-852-1 | <0.1     |
| Tween 20           | 9005-64-5  | 500-018-3 | <0.1     |
| Dimethyl Sulfoxide | 67-68-5    | 200-664-3 | <1.0     |

## 4. First aid measures

**Skin contact:** Rinse with plenty of water. If symptoms arise, call a physician.  
**Eye contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.  
**Ingestion:** Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Do not induce vomiting without medical advice.  
**Inhalation:** Move to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration.  
**Notes to physician:** Treat symptomatically.

## 5. Fire-fighting measures

**Suitable extinguishing media:** Water spray. Carbon dioxide (CO<sub>2</sub>). Foam. Dry chemical.  
**Special protective equipment for firefighters:** Wear self-contained breathing apparatus and protective suit.

## 6. Accidental release measures

**Personal precautions:** Use personal protective equipment.  
**Methods for clean up:** Soak up with inert absorbent material.  
**Environmental precautions:** Prevent further leakage or spillage, if safe to do so. See Section 12 for additional information.

## 7. Handling and storage

**Handling:** Always wear recommended Personal Protective Equipment. No special handling advice required.  
**Storage:** Keep in a dry, cool and well-ventilated place.

## 8. Exposure controls/personal protection

### Exposure limits

| Chemical Name      | OSHA PEL                                | OSHA PEL (Ceiling) | ACGIH OEL (TWA)      | ACGIH OEL (STEL) |
|--------------------|---|--------------------|----------------------|------------------|
| Glycerol           | 15mg/m <sup>3</sup> 5 mg/m <sup>3</sup> | none               | 10 mg/m <sup>3</sup> | none             |
| TRIS BASE          | none                                    | none               | none                 | none             |
| Sodium azide       | none                                    | none               | none                 | none             |
| Tween 20           | none                                    | none               | none                 | none             |
| Dimethyl Sulfoxide | none                                    | none               | none                 | none             |

### Engineering measures

Ensure adequate ventilation, especially in confined areas.

### Personal protective equipment

Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.

|                           |   |
|---------------------------|---|
| Respiratory protection:   | In case of insufficient ventilation, wear suitable respiratory equipment. |
| Hand protection:          | Impervious gloves.  |
| Eye protection:           | Safety glasses with side-shields.   |
| Skin and body protection: | Lightweight protective clothing.  |
| Hygiene measures:         | Handle in accordance with good industrial hygiene and safety practice.    |

### Environmental exposure controls

Prevent product from entering drains.

## 9. Physical and chemical properties

### General Information

|                          |                          |                      |
|--------------------------|--------------------------|----------------------|
| Form                     | liquid                   |                      |
| Appearance               | No information available |                      |
| Odor                     | No information available |                      |
| Boiling Point/Range      | °C no data available     | °F no data available |
| Melting Point/Range      | °C no data available     | °F no data available |
| Flash Point              | °C no data available     | °F no data available |
| Autoignition Temperature | °C no data available     | °F no data available |
| Oxidizing Properties     | No information available |                      |
| Water Solubility         | Soluble                  |                      |

## 10. Stability and reactivity

### Stability:

Stable under normal conditions.

### Materials to avoid:

No dangerous reaction known under conditions of normal use. Sodium azide may react with lead and copper plumbing to form highly explosive metal azides.

### Hazardous decomposition products:

None under normal use.

### Polymerization:

Hazardous polymerization does not occur.

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## 11. Toxicological information

### Acute toxicity

| Chemical Name      | LD50 (oral, rat/mouse) | LD50 (dermal, rat/rabbit) | LD50 (inhalation, rat/mouse) |
|--------------------|------------------------|---------------------------|------------------------------|
| Glycerol           | = 12600mg/kg Oral      | No data available         | No data available            |
| TRIS Base          | = 5900 mg/kg (Rat)     | No data available         | No data available            |
| Sodium azide       | = 27 mg/kg (Rat)       | No data available         | No data available            |
| Tween 20           | = 40554 mg/kg (Rat)    | No data available         | No data available            |
| Dimethyl Sulfoxide | = 14500 mg/kg (Rat)    | = 40g/kg (Rat)            | No data available            |

### Principle Routes of Exposure/ Potential Health effects

|                               |  |
|-------------------------------|--|
| <b>Eyes</b>                   | May cause eye irritation with susceptible persons. |
| <b>Skin</b>                   | May cause skin irritation in susceptible persons.  |
| <b>Inhalation</b>             |  |
| <b>Ingestion</b>              | May be harmful if swallowed.                       |
| <b>Carcinogenic effects:</b>  | none   |
| <b>Mutagenic effects:</b>     | none   |
| <b>Reproductive toxicity:</b> | none   |
| <b>Sensitization:</b>         | none   |
| <b>Target Organ Effects:</b>  | No known effects under normal use conditions.      |

## 12. Ecological information

|                             |                           |
|-----------------------------|---------------------------|
| <b>Ecotoxicity effects:</b> | No information available. |
| <b>Mobility:</b>            | No information available. |
| <b>Biodegradation:</b>      | Inherently biodegradable. |
| <b>Bioaccumulation:</b>     | Does not bio-accumulate.  |

| Chemical Name                 | Freshwater Algae Data              | Water Flea Data                         | Freshwater Fish Species Data   | Microtox Data | Log Pow |
|-------------------------------|------------------------------------|---|--|---------------|---------|
| <b>Glycerol</b><br>56-81-5    |                                    | Daphnia magna<br>EC50>500mg/L<br>(24 h) |  |               | =-1.76  |
| Tween 20<br>9005-64-5         |                                    |   | LC50 – other fish –<br>350mg/L (24h)   |               |         |
| Dimethyl Sulfoxide<br>67-68-5 | EC50 12350 –<br>25500mg/L<br>(96h) | EC50 = 7000mg/L<br>(24h)                | LC50 33-37g/L<br>Oncorhynchus mykiss<br>(96h)<br>LC50 = 41.7g/L Cyprinus<br>carpio (96h)<br>LC50 = 34mg/L<br>Pimephales promelas (96<br>h) |               | = -2.03 |

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|  |  |  |  |  |  |
|--|--|--|--|--|--|
|  |  |  | LC50 > 40g/L <i>Lepomis macrochirus</i> (96 h) |  |  |
|--|--|--|--|--|--|

**13. Disposal considerations**

Dispose of in accordance with local regulations.

**14. Transportation information**

**IATA**

**Proper Shipping Name:** Not classified as dangerous in the meaning of transport regulations.  
**Hazard Class:** None  
**Subsidiary Class:** None  
**Packing Group:** None  
**UN-No:** None

**15. Regulatory Information**

| Component                            | TSCA   |
|--------------------------------------|--------|
| Glycerol<br>56-81-5 (10-30)          | Listed |
| Tris Base<br>77-86-1 (<1.0)          | Listed |
| Sodium azide<br>26628-22-8 (<0.1)    | Listed |
| Tween 20<br>9005-64-5 (<0.1)         | Listed |
| Dimethyl Sulfoxide<br>67-68-5 (<1.0) | Listed |

**U.S. Federal Regulations**

**SARA 313**

This product contains the following toxic chemical(s) subject to the notification requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986. This law requires certain manufacturers to report on annual emissions of specified chemicals and chemical categories. Please note that if you repackage, or otherwise redistribute, this product to industrial customers, a notice similar to this one should be sent to those customers:

| Chemical Name | CAS-No     | Weight % | SARA 313 – Threshold Values |
|---------------|------------|----------|-----------------------------|
| Sodium azide  | 26628-22-8 | <0.1     | 1.0                         |

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contain HAPs.

**U.S. State Regulations**

| Chemical Name | Massachusetts-RTK | New Jersey-RTK | Pennsylvania-RTK | Illinois-RTK | Rhode Island-RTK |
|---------------|-------------------|----------------|------------------|--------------|------------------|
| Glycerol      | Listed            | -              | Listed           | -            | Listed           |
| TRIS Base     | -                 | -              | -                | -            | -                |
| Sodium azide  | Listed            | Listed         | Listed           | -            | Listed           |

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|                    |   |        |        |   |   |
|--------------------|---|--------|--------|---|---|
| Tween 20           | - | Listed | Listed | - | - |
| Dimethyl Sulfoxide | - | Listed | -      | - | - |

## California Proposition 65

This product does not contain chemicals listed under Proposition 65.

## WHMIS Hazard Class

D2B Toxic materials



This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required.

## 16. Other information

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

### Notice to reader

The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. The information contained in this document is based on InnoGenomics' state of knowledge at the time of preparation.

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**End of Safety Data Sheet**