

SAFETY DATA SHEET

According to regulation 1907/2006/EC

Version: 3

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Section 1: Identification of the Substance/Mixture and of the Company

1.1 Product Identifier

Name: Intas HDGreen® Plus Safe DNA Dye

Product Number: 113661

REACH Registration Number: This product is a mixture. REACH registration numbers are provided in Section 3

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Laboratory consumable for research and analytics.

1.3 Details of the Supplier of the Safety Data Sheet

Company: Intas Science Imaging Instruments GmbH
Gustav-Bielefeld-Str. 2
39079 Göttingen
Germany

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Email: info@intas.de

1.3 Emergency Telephone Number:

+49 (0) 551 50 50 50

Section 2: Hazardous Identification

2.1 Classification of the Substance or Mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2 Label Elements

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.3 Other Hazards

- This substance/mixture does not contain components at concentrations of 0.1% or higher that are classified as persistent, bioaccumulative, and toxic (PBT) or very persistent and very bioaccumulative (vPvB).
- **Environmental Information:** The substance/mixture does not contain components with endocrine-disrupting properties as per REACH Article 57(f) or Commission Delegated Regulations (EU) 2017/2100 and (EU) 2018/605.
- **Toxicological Information:** No components with endocrine-disrupting properties are present at concentrations of 0.1% or higher.

Section 3: Composition/Information on Ingredients

3.2 Mixtures

Aqueous solution containing inorganic and organic components.

No components required to be disclosed according to applicable regulations.

Section 4: First Aid Measures

4.1 Description of First Aid Measures

- **Inhalation:** Move to fresh air.
- **Skin Contact:** Remove all contaminated clothing immediately. Wash skin with water/shower.
- **Eye Contact:** Rinse thoroughly with water. Remove contact lenses if present.
- **Ingestion:** Drink water (maximum of 2 glasses). If unwell, consult a physician.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

See Section 2.2 and/or Section 11 for known symptoms and effects.

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

No data available.

Section 5: Firefighting Measures

5.1 Extinguishing Media

- **Suitable:** This product is not flammable. Use extinguishing measures appropriate to the surroundings.
- **Unsuitable:** No restrictions known for this substance/mixture.

5.2 Special Hazards Arising from the Substance or Mixture

Non-flammable. Hazardous vapors may form due to surrounding fire.

5.3 Advice for Firefighters

Wear self-contained breathing apparatus in case of fire.

5.4 Additional Information

Do not allow extinguishing water to enter surface or groundwater systems.

Section 6: Accidental Release Measures

6.1 Personal Precautions, Protective Equipment, and Emergency Procedures

- **Non-Emergency Personnel:** Avoid inhalation of vapors/aerosols. Evacuate danger zone. Follow emergency procedures. Seek expert assistance.
- **Personal Protective Equipment:** See Section 8.

6.2 Environmental Precautions

Prevent material from entering drains.

6.3 Methods and Material for Containment and Cleaning Up

- Seal drains. Contain, collect, and pump off spillage. Observe possible material restrictions (Sections 7 and 10).
- Absorb with liquid-binding material (e.g., Chemizorb®). Dispose of appropriately. Clean the affected area.

6.4 Reference to Other Sections

For disposal, see Section 13.

Section 7: Handling and Storage

7.1 Precautions for Safe Handling

See Section 2.2 for protective measures.

7.2 Conditions for Safe Storage, Including Any Incompatibilities

- **Storage Conditions:** Keep tightly closed.
- **Recommended Storage Temperature:** See product label.
- **Storage Class:** Class 12 (Non-flammable liquids, as per TRGS 510).

7.3 Specific End Uses

No additional specific uses apart from those mentioned in Section 1.2.

Section 8: Exposure Controls/Personal Protection

8.1 Control Parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure Controls

- **Personal Protective Equipment:**
 - **Eye/Face Protection:** Use equipment tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU). Wear safety goggles with side protection.
 - **Skin Protection:** Wear suitable protective gloves. Fabric or leather gloves are unsuitable. Suitable gloves include:
 - **For full contact:**
 - Material: Nitrile rubber, Latex
 - Minimum layer thickness: 0.35 mm
 - Breakthrough time: ≥ 480 min
 - **For splash contact:**
 - Material: Natural rubber, Nitrile rubber, Latex, PVC
 - Minimum layer thickness: 0.5 mm (Natural rubber, PVC), 0.2 mm (Nitrile rubber)
 - Breakthrough time: ≥ 120 min (Natural rubber, PVC), ≥ 30 min (Nitrile rubber)
 - **Respiratory Protection:** Not required unless aerosol formation occurs.
 - **Environmental Exposure Controls:** Prevent product from entering drains.

Section 9: Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

- **State:** Liquid
- **Color:** Orange-red to brown
- **Odor:** No data available
- **pH:** No data available
- **Melting/Freezing Point:** No data available
- **Initial Boiling Point and Range:** 100°C at 1,013 hPa
- **Flammability:** No data available
- **Flash Point:** Non-flammable
- **Auto-ignition Temperature:** No data available
- **Decomposition Temperature:** No data available
- **Solubility:** Soluble in water at 20°C
- **Density:** 1 g/cm³ at 20°C

- **Explosive Properties:** Not classified as explosive
- **Oxidizing Properties:** None

9.2 Other Safety Information

No data available.

Section 10: Stability and Reactivity

10.1 Reactivity

No data available.

10.2 Chemical Stability

Stable under normal ambient conditions (room temperature).

10.3 Possibility of Hazardous Reactions

Violent reactions possible with general reaction partners for water.

10.4 Conditions to Avoid

No specific data available.

10.5 Incompatible Materials

Strong acids, oxidizing, and reducing agents.

10.6 Hazardous Decomposition Products

In case of fire: See Section 5.

Section 11: Toxicological Information

11.1 Information on Toxicological Effects

- **Acute Toxicity:**
 - Oral: No data available
 - Inhalation: No data available
 - Dermal: No data available
 - LD50 oral: 1,000–10,000 mg/kg (Kunming mouse); not toxic
- **Skin Corrosion/Irritation:** No data available
- **Serious Eye Damage/Irritation:** No data available
- **Respiratory or Skin Sensitization:** No data available
- **Germ Cell Mutagenicity:**
 - In vitro bacterial reverse mutation test: Not mutagenic
 - In vivo micronucleus test: Negative
 - In vitro chromosome aberration test: Negative
- **Carcinogenicity, Mutagenicity, and Reproductive Toxicity:** No relevant data available.
- **STOT - Single Exposure:** No data available
- **STOT - Repeated Exposure:** No data available
- **Aspiration Hazard:** No data available

11.2 Additional Information

- **Endocrine Disrupting Properties:** The substance/mixture contains no components at concentrations of 0.1% or higher with endocrine-disrupting properties.
- Hazardous effects are not expected with proper use.

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

This substance/mixture does not contain components at concentrations of 0.1% or higher classified as persistent, bioaccumulative, and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

12.6 Endocrine Disrupting Properties

The substance/mixture contains no components with endocrine-disrupting properties as per REACH Article 57(f) or Delegated Regulations (EU) 2017/2100 and 2018/605.

12.7 Other Adverse Effects

No data available.

Section 13: Disposal Considerations

13.1 Waste Treatment Methods

- **Product:** Dispose of product residues in compliance with national and regional regulations. Do not mix with other waste. Handle containers according to product specifications. Refer to Directive 2008/98/EC for waste management.

Section 14: Transport Information

14.1 UN Number

ADR/RID: - IMDG: - IATA: -

14.2 UN Proper Shipping Name

ADR/RID: Not dangerous goods
IMDG: Not dangerous goods
IATA: Not dangerous goods

14.3 Transport Hazard Classes

ADR/RID: - IMDG: - IATA: -

14.4 Packing Group

ADR/RID: - IMDG: - IATA: -

14.5 Environmental Hazards

ADR/RID: No IMDG: No IATA: No

14.6 Special Precautions for User

Not dangerous goods as per transport regulations.

Section 15: Regulatory Information

15.1 Safety, Health, and Environmental Regulations/Legislation Specific for the Substance or Mixture

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out for this product.

Section 16: Other Information

Full Text of Abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further Information

The above information is compiled to the best of our knowledge but does not claim to be exhaustive. Users should consider this data as a guide. Intas Science Imaging Instruments GmbH assumes no liability for damages resulting from the handling or contact with this product. For further information, please visit www.intas.de or refer to the back of invoices or delivery notes.