

1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

Product name	HDGreen® Plus Safe DNA Dye
Catalog number	ISII-HDGreen Plus
Manufacturer/Supplier	Intas Science Imaging Instruments GmbH Florenz-Sartorius-Straße 14 37079 Göttingen Germany Phone: +49 (0) 551 505050
Information in case of emergency	Phone: +49 (0) 551 505050 e-mail: info@intas.de

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Proportion
Double distilled water	7732-18-5	>96%
Ingredient A	Not available	<1%
Ingredient B	Not available	<1%
Hydrochloric acid (final conc. 0.3 M)	7647-01-0	2,5%

3. HAZARDS IDENTIFICATION

Hazard description	The product contains no substances which at their given concentration, are considered to be hazardous to health.
Information concerning particular hazards for human and environment	The product does not have to be labeled due to the calculation procedure of the "General classification guideline for preparations of the EU" Only for trade users/technical specialists
Classification System	The classification was made according to the latest editions of the EU-lists, and expanded upon from company and literature data.
GHS label elements	Void

4. FIRST AID MEASURES

Inhalation	If breathing becomes difficult, move to fresh air and call a physician
Ingestion	If swallowed, wash out mouth with water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.
Skin contact	Wash off immediately with plenty of soap and water. If irritation develops, get medical attention.
Eye contact	Rinse opened eye immediately with plenty of water. If irritation persists, get medical attention.
Notes to physician	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Dry chemical, CO ₂ , water spray or alcohol resistant foam
Protective equipment	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment. Ensure adequate ventilation.
Environmental precautions	Dilute with plenty of water. Do not allow to enter sewers/surface or ground water.
Methods for cleaning up	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Additional information	No dangerous substances are released.

7. HANDLING AND STORAGE

Handling	No special measures are required for safe handling of this product.
Storage	No special requirements. Keep receptacle tightly sealed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits	The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
Personal protective equipment	
Respiratory protection	Not required
Hand protection	Protective gloves. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application
Eye protection	Protective goggles.
Skin and body protection	Appropriate protective clothing
Hygiene measures	Do not eat, drink or smoke when handling this product. Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Liquid.
Color	Orange-red to brown.
Odor	Odourless.
PH value	N/A
Boiling point	N/A
Melting point	N/A
Flash point	N/A
Autoflammability	N/A
Explosion hazard	N/A
Vapor pressure	N/A
Relative density	N/A
Water solubility	Easily soluble.

10. STABILITY AND REACTIVITY

Thermal decomposition	None, if used according to specifications.
Dangerous Reactions	No dangerous reactions identified.
Hazardous decomposition products	No dangerous decomposition products identified.

11. TOXICOLOGICAL INFORMATION

Routes of exposure	
Inhalation	No irritating effect.
Skin contact	May cause skin irritation.
Eye contact	May cause eye irritation.
Sensitization	No sensitizing effects known.
Additional toxicological information	The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12. ECOLOGICAL INFORMATION

Water hazard class 1 (German regulation) (self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13. DISPOSAL CONSIDERATIONS

Waste must be disposed of in accordance with federal, state and local environmental control regulations. Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with local authority requirements.

14. TRANSPORT INFORMATION

Land transport ADR/RID (cross-border)

ADR/RID class: -

Maritime transport IMDG:

IMDG Class: -

Marine pollutant: No

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: -

UN "Model Regulation": -

Transport/Additional information: Not dangerous according to the above specifications.

15. REGULATORY INFORMATION

Labeling according to EU guidelines

This product is not subject to identification regulations under EU directives and the ordinance on hazardous materials.

16. OTHER INFORMATION

MSDS Creation Date: 06.12.2010 **Revision date:** 21.08.2012

This information is believed to be accurate and represents the best information currently available to us. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Intas is not held liable for any damage resulting from handling or from contact with the above mentioned products.

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)