



Safety Data Sheet

Effective Date: March 18, 2016

Version: 1.0

Product Name: Ultra High Def™ Black HRP,30 ml

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

1.1 Product identifier

Trade name	Ultra High Def™ Black HRP,30 ml
Cat ##	CRM-001-30
Components	Imidazole,3'3-Diaminobenzidine Tetrahydrochloride Hydrate, 3,5-Diaminobenzoic acid
EC	288-32-4, 206-019-2, 200-679-5, 231-018-9
CAS	68-12-2, 868272-85-9, 535-87-5

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

Liquid reagents represented by two components: Buffer and Chromogen

1.3 Manufactured For:

StatLab Medical Products
2090 Commerce Drive
McKinney, TX 75069
(800) 442-3573
statlab.com

1.4 Emergency telephone number

Chemtrec: 800-424-9300 (USA & Canada)
Chemtrec: 703-527-3987 (international)
Non-transport: 972-436-1010 (USA)

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture

UHD Black Substrate Buffer			
	Hazard Class	Category	Hazard Statements (H-Statements)
Imidazole	N/A	N/A	R22 – Harmful if swallowed R34 – Causes burns R61 – May cause harm to the unborn child
UHD Black/HRP Chromogen			
	Hazard Class	Category	Hazard Statements (H-Statements)
N-N-Dimethylformamide	EC: 200-679-5 CAS: 68-12-2	N/A	R61, R20/21, R36
3,3'-Diaminobenzidine Tetrahydrochloride Hydrate	EC: 231-018-9 CAS:868272-85-9	N/A	H341, H350 R45, R68
3,5-Diaminobenzoic acid	EC: N/A	N/A	R38

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2.2 Label elements

Signal Word	Warning
Pictogram	
H-Statements	N/A
P-Statements	N/A
EUH-Statements	N/A

2.3 Other hazards

N/A

SECTION 3: Composition/information on ingredients

UHD Black Substrate Buffer			
Name	Identifiers	Classification according to CLP	Classification (for pure substances)
Imidazole	EC: 206-019-2 CAS: 288-32-4	Concentration: 0.5-<2%	R22, R34, R61
UHD Black/HRP Chromogen			
Name	Identifiers	Classification according to CLP	Classification (for pure substances)
N-N-Dimethylformamide	EC: 200-679-5 CAS: 68-12-2	Concentration: <1%	R61, R20/21, R36
3,3'-Diaminobenzidine Tetrahydrochloride Hydrate	EC: 231-018-9 CAS:868272-85-9	Concentration: <1%	H341, H350 R45, R68
3,5-Diaminobenzoic acid	EC: N/A CAS: 535-87-5	Concentration:<0.5%	R38

SECTION 4: First aid measures

4.1 Description of first aid measures

If inhaled	Move to well-ventilated area and keep at rest in a position comfortable for breathing. If individual is not breathing, begin artificial respiration immediately and obtain medical attention.
If on skin	Immediately flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. If pain or irritation occurs, obtain medical attention.
If in eyes	Immediately wash eyes gently under running water for 15 minutes or longer,

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	making sure that the eyelids are held open. If pain or irritation occurs, obtain medical attention.
If swallowed	Rinse mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If the exposed person is conscious, give small quantities of water to drink. Immediately seek medical attention and call poison control center. Do not induce vomiting unless directed to do so by medical personnel.
Self-protection of the first aider	N/A

4.2 Most important symptoms and effects, both acute and delayed

N/A

4.3 Indication of any immediate medical attention and special treatment needed

N/A

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	Extinguish using suitable agents
Unsuitable extinguishing media	N/A

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products	No combustion products posing significant hazards are expected from this product (a dilute aqueous solution).
Other information	N/A

5.3 Advice for firefighters

Wear protective clothing containing self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Protective equipment	Ensure adequate ventilation Eye Protection: Wear goggles or safety glasses Hand protection: Wear latex or vinyl gloves Other protective equipment: Use lab coat or apron to prevent contact with eyes, skin and clothing
Emergency procedures	N/A
For emergency responders	N/A

6.2 Environmental precautions

Do not allow to enter sewage system

6.3 Methods and material for containment and cleaning up

For containment	N/A
For cleaning up	Use universal precautions during clean up procedures. As a precautionary measure, treat spilled material with a 1:10 bleach/water solution. Use

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	liquid absorbent material to absorb liquid and place in container suitable for disposal. Avoid generation of aerosols during clean up. Comply with applicable waste disposal regulations.
Other information	N/A

6.4 Reference to other sections

N/A

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Measures to prevent fire	N/A
Measures to prevent aerosol and dust generation	N/A
Measures to protect the environment	N/A
Advice on general occupational hygiene	Universal precautions should be followed when using this product. Wear personal protective equipment. Ensure adequate ventilation. Do not breathe vapors or spray mist. Avoid contact with skin and eyes. Do not ingest. Do not eat, drink when handling this product, and wash hands after handling.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions	Store at 2°C to 8°C
Packaging materials	N/A
Requirements for storage rooms and vessels	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.
Storage class	N/A
Other information	N/A

7.3 Specific end use(s)

Recommendations	N/A
Industrial sector specific solutions	N/A

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies. Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

8.2 Exposure controls

Respiratory Protection	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator
Skin and body protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Eye/face Protection	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Hygiene Measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Liquid
Odor	N/A
Order Threshold	N/A
pH	N/A

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Melting Point/ Freezing Point	N/A
Initial Boiling Point/ Freezing Point	N/A
Flash Point	N/A
Evaporation Rate	N/A
Flammability	N/A
Upper/Lower Flammability or Explosive Limits	N/A
Vapor Pressure	N/A
Vapor Density	N/A
Relative Density	N/A
Solubility	N/A
Partition Coefficient: n-octanol/water	N/A
Auto-Ignition Temperature	N/A
Decomposition temperature	N/A
Viscosity	N/A
Explosive Properties	N/A
Oxidizing Properties	N/A

9.2 Other Information

N/A

Section 10: Stability and Reactivity

10.1 Reactivity

N/A

10.2 Chemical Stability

Stable under recommended storage conditions

10.3 Possibility of Hazardous Reactions

N/A

10.4 Conditions to Avoid

Strong prolonged heat and contact with incompatible materials

10.5 Incompatible Materials

Strong Acids, Strong Bases, Strong Oxidizers, Metals and Metallic compounds

10.6 Hazardous Decomposition Products

N/A

SECTION 11: Toxicological Information

UHD Black Substrate Buffer

Imidazole (in pure form): ORAL (LD50): Acute: 220 mg/kg [Rat].

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Common routes of entry	Ingestion, Eye contact, Inhalation
Potential Effects of Acute Exposure	Very hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.
Potential Effects of Chronic Exposure	Very hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation
Symptoms of Overexposure	N/A
UHD Black/HRP Chromogen	
N-N-Dimethylformamide (in pure form): mouse LD50 oral 2800mg/kg	
Common route of entry	Ingestion
Potential Effects of Acute Exposure	It causes mild skin irritation and serious eye irritation. It is not a skin sensitizer.
Potential Effects of Chronic Exposure	Frequent inhalation of small concentrations may cause irritability, fatigue and memory failure and eventually permanent damage to the nervous system, including the brain. May cause harm to unborn child.
Symptoms of Overexposure	N/A
3,3'-Diaminobenzidine Tetrahydrochloride Hydrate (in pure form): N/A	
Common routes of entry	Oral, Dermal, Inhalation
Potential Effects of Acute Exposure	Exposure to decomposition products through inhalation may cause a health hazard. Serious effects may be delayed following exposure. No known significant effects or critical hazards for ingestion, skin contact and eye contact.
Potential Effects of Chronic Exposure	May cause cancer. Risk of cancer depends on duration and level of exposure. May cause heritable genetic effects.
Symptoms of Overexposure	N/A
3,5'-Diaminobenzoic Acid (in pure form): Rat LD50 1800mg/kg	
Common routes of entry	N/A
Potential Effects of Acute Exposure	N/A
Potential Effects of Chronic Exposure	N/A
Symptoms of Overexposure	N/A

SECTION 12: Ecological Information

12.1 Toxicity



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N/A

12.2 Persistence and Degradability

N/A

12.3 Bioaccumulative potential

N/A

12.4 Mobility in Soil

N/A

12.5 Results of PBT and vPvB Assessment

N/A

12.6 Other Adverse Effects

N/A

SECTION 13: Disposal Considerations

13.1 Waste Treatment Methods

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport Information

14.1 Un Number

N/A

14.2 Un Proper Shipping Name

N/A

14.3 Transport Hazard Class (es)

N/A

14.4 Packing Group

N/A

14.5 Environmental Hazards



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N/A

14.6 Special Precautions for User

N/A

14.7 Transport in Bulk according to Annex II of MARPOL73/78 and the IBC Code

N/A

SECTION 15: Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Product/ingredient name	Carcinogenic effects	Mutagenic effects	Developmental effects	Fertility effects
3,3'-Diaminobenzidine Tetrahydrochloride Hydrate	Carc. 1B, H350	Muta. 2, H341	N/A	N/A

15.2 Chemical Safety Assessment

N/A

SECTION 16: Other Information

This information is believed to be accurate and represents the best information currently available to StatLab Medical Products. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information of their particular purposes.