

Safety Data Sheet

Effective Date: March 18, 2016

Version: 1.0

Product Name: Ultra High Def™ Green AP, 110 ml

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

1.1 Product identifier

Trade name	Ultra High Def™ Green AP, 110 ml
Cat ##	CRM-004-110
Components	Methanol, Tris Base, Proclin 300™, N-N-Dimethylformamide
EC	200-659-6, 201-064-4, 613-167-00-5, 200-679-5
CAS	67-56-1, 77-86-1, 55965-84-9, 68-12-2

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 Green/AP Chromogen			
	Hazard Class	Category	Hazard Statements (for pure substances)
Methanol	N/A	N/A	R23/24/25 – Toxic by inhalation, in contact with skin and if swallowed R39/23/24/25 – Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed
UHD Green Substrate Buffer			
Tris Base	N/A	N/A	R36 – Irritating to eyes R37 – Irritating to respiratory system R38 – Irritating to skin
Proclin 300™	N/A	N/A	R43 – May cause sensitization by skin contact
N-N-Dimethylformamide	N/A	N/A	R61 – May cause harm to unborn child R20/21 – Harmful by inhalation and in contact with skin R36 – Irritating to eyes

Safety Data Sheet

Effective Date: March 18, 2016

Version: 1.0

Product Name: Ultra High Def™ Green AP, 110 ml

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 Green/AP Chromogen			
Name	Identifiers	Classification according to CLP	Classification (for pure substances)
Methanol	EC: 200-659-6 CAS: 67-56-1	Concentration: 10-50%	R23/24/25 R39/23/24/25
UHD Green Substrate Buffer			
Name	Identifiers	Classification according to CLP	Classification (for pure substances)
Tris Base	EC: 201-064-4 CAS: 77-86-1	Concentration: <10%	R36, R37, R38
Proclin 300™	EC: 613-167-00-5 CAS: 55965-84-9	Concentration: <0.1%	R43
N-N-Dimethylformamide	EC: 200-679-5 CAS: 68-12-2	Concentration: <10%	R61, R20/21, R36

SECTION 4: First aid measures

4.1 Description of first aid measures

If inhaled	Seek medical attention. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If simply overwhelmed, loosen tight clothing, lie victim down, monitor pulse and keep warm and calm.
If on skin	Wash exposed area with soap and water and get medical advice if irritation develops.
If in eyes	Thoroughly flush the eyes with large amounts of clean low-pressure water for at least 20 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. If irritation persists, seek medical attention.
If swallowed	Methanol may be fatal or cause blindness. Seek immediate medical attention.

Safety Data Sheet

Effective Date: March 18, 2016

Version: 1.0

Product Name: Ultra High Def™ Green AP, 110 ml

	Effects may be delayed. Ethanol may inhibit methanol metabolism.
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 Flammable Properties

Flash point	84°F (29°C)
Flash point method	Closed cup
Autoignition temperature	867°F (464°C) based on 100% methanol
Upper flame limit (volume % in air)	36% based on 100% methanol
Lower flame limit (volume % in air)	6% based on 100% methanol
Flame propagation rate (solids)	N/A
Osha flammability class	Class IC Flammable liquid

5.2 Extinguishing media

Suitable extinguishing media	Water, dry chemical, carbon dioxide or appropriate foam
Unsuitable extinguishing media	N/A

5.3 Special hazards arising from the substance or mixture

Hazardous combustion products	N/A
Other information	Avoid inhalation of toxic fumes.

5.4 Advice for firefighters

<p>Wear protective clothing containing self-contained breathing apparatus.</p> <p>Water will not be effective in extinguishing a fire. Use water spray to cool fire-exposed containers and to reduce rate of burning, taking care not to spread the fire. Heat will build pressure and rupture closed storage containers. Vapors can travel to distant ignition source and flash back. Do not release runoff from fire control measures into waterways or sewers.</p>

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Protective equipment	<p>Ensure adequate ventilation</p> <p>Eye Protection: Wear goggles or safety glasses</p> <p>Hand protection: Wear latex or vinyl gloves</p> <p>Other protective equipment: Use lab coat or apron to prevent contact</p>
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Safety Data Sheet

Effective Date: March 18, 2016

Version: 1.0

Product Name: Ultra High Def™ Green AP, 110 ml

	with eyes, skin and clothing
Emergency procedures	N/A
For emergency responders	N/A

6.2 Environmental precautions

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

For containment	N/A
For cleaning up	Use universal precautions during clean up procedures. Use 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	Wear personal protective equipment. Ensure adequate ventilation. Do not eat, drink and smoke in areas where this product is handled, stored and processed. Wash hands and face after handling the product. Remove contaminated clothing and protective equipment before entering eating areas.

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 a cool, dry, well-ventilated area. Keep containers upright and closed. Protect containers from physical damage. Once liquid solvent has been completely dispensed, containers, which appear "empty," should be handled in the

Safety Data Sheet

Effective Date: March 18, 2016

Version: 1.0

Product Name: Ultra High Def™ Green AP, 110 ml

	same manner as when they were “full.”
Storage class	N/A
Other information	N/A

7.3 Specific end use(s)

Recommendations	N/A
Industrial sector specific solutions	N/A

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Substance	Exposure Limits	
	ACGIH	OSHA
Methanol	200ppm	200ppm; 250ppm STEL (skin)

8.2 Exposure controls

Respiratory Protection	A properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is highly recommended. 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	Wear appropriate protective gloves and clothing to prevent skin exposure. Use proper glove removal technique (without touching glove’s outer surface) to avoid skin contact with this product. Wash and dry hands.
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 thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

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	7.5



Safety Data Sheet

Effective Date: March 18, 2016

Version: 1.0

Product Name: Ultra High Def™ Green AP, 110 ml

Melting Point/ Freezing Point	N/A
Initial Boiling Point/ Freezing Point	N/A
Flash Point	84°F (29°C)
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

Heat, open flame, oxidizers, alkali and alkaline earth metals

10.5 Incompatible Materials

Strong oxidizing agents such as sulfuric acid, nitrates and perchlorates. Can attack some plastics and rubber, May react with aluminum to form hydrogen gas.

10.6 Hazardous Decomposition Products

Thermal decomposition may generate carbon dioxide, carbon monoxide and formaldehyde

SECTION 11: Toxicological Information

UHD Green/AP Chromogen

Safety Data Sheet

Effective Date: March 18, 2016

Version: 1.0

Product Name: Ultra High Def™ Green AP, 110 ml

Methanol (in pure form): LD50 Oral Rat: 5628mg/kg	
Common route of entry	Inhalation, eye contact, absorbed through skin
Potential Effects of Acute Exposure	Headache, nausea, dizziness, blurred vision, central nervous system depression, behavioral changes, respiratory depression and liver toxicity.
Potential Effects of Chronic Exposure	Impaired vision, dermatitis; fetotoxic effects and maternal toxicity
Symptoms of Overexposure	N/A
UHD Green Substrate Buffer	
Tris Base (in pure form): mouse LD50 oral: 5900mg/kg	
Common route of entry	Ingestion
Potential Effects of Acute Exposure	N/A
Potential Effects of Chronic Exposure	N/A
Symptoms of Overexposure	N/A
Proclin 300™ (in pure form): LD50 (oral-rat): 3600 mg/kg (100%)	
Common route of entry	Ingestion
Potential Effects of Acute Exposure	The product contains <0.1% of Proclin 300™ which corresponds to <0.0015% of its active ingredients. At this low final concentration, this biocidal preservative is irritating to eyes and skin and may be detrimental if enough is ingested (quantities above those found in the kit).
Potential Effects of Chronic Exposure	It is a skin sensitizer; prolonged or repeated exposure may cause allergic reaction in certain sensitive individuals.
Symptoms of Overexposure	Allergic skin reaction
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

SECTION 12: Ecological Information

12.1 Toxicity

Methanol is dangerous to aquatic life in high concentrations



Safety Data Sheet

Effective Date: March 18, 2016

Version: 1.0

Product Name: Ultra High Def™ Green AP, 110 ml

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

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.

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

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



Safety Data Sheet

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SECTION 15: Regulatory Information

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

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.