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

1.1 Product identifier

- Product Name: Urea/BUN – (UV) (4+1)

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

This reagent is intended for the in-vitro quantitative, diagnostic determination of Urea in human serum or urine on both automated and manual applications.

1.3 Details of the supplier of the safety data sheet

- Name of Manufacturer: Arena BioScien, SEA
- Address of Manufacturer: Block 5, Street 9 Ismailia free zone. Ismailia- Egypt
- Telephone: +202 21813500/ +201113102057
- Email: admin@arenabioscientific.com

SECTION 2 Hazards identification

Not classified as hazardous according to the EU criteria
Hazard Classification: NON-HAZARDOUS SUBSTANCE, NON DANGEROUS GOODS.
Hazard Category: None allocated.
RISK PHRASES: None allocated.
SAFETY PHRASES: None allocated
Poison Schedule: None allocated.

SECTION 3 Composition/information on ingredients

3.1 Substances

R1: Standard	
UREA	50 mg/dl
BUN	23.4 mg/dl
R2: BUFFER REAGENT	
Tris Buffer (pH 8.5)	50 mmol/L
a-Ketoglutarate	10 mmol/L
GLDH	8 KU/L
Urease	5 KU/L
Sodium azide	8 mmol/L
R3: STARTER REAGENT	
Sodium azide	> 0.20 mmol/L
NADH	8 mmol/L

All ingredients determined not to be hazardous according to the EU criteria.

SECTION 4 First aid measures

Swallowed: If swallowed, DO NOT induces vomiting. Give 3 to 4 glasses of water to drink. Seek immediate medical assistance.
Eye: If product enters the eyes, flush with plenty of water for at least 15 minutes, ensuring eye lids are held open. If irritation develops or persists, immediately transport to hospital or doctor.
Skin: If product contacts the skin, remove any contaminated clothing and wash skin thoroughly with soap and water. If irritation persists transport to hospital or doctor.
Inhaled: Move victim to fresh air. Apply resuscitation if victim is not breathing.
First Aid Facilities: Eye wash fountain, safety shower and normal wash room facilities. Advice to Doctor: Treat symptomatically.

SECTION 5 Fire-fighting measures

Suitable Extinguishing Media: Use extinguishing media suitable for surrounding fire situation.
Hazards from Combustion Products: Decomposes on heating emitting oxides of carbon and oxides of nitrogen.
Precautions for Fire Fighters and Special Protective Equipment: If safe to do so, move undamaged

containers from fire area. Fire fighters to wear Self-contained breathing apparatus (SCBA) in confined spaces, in oxygen deficient atmospheres or if exposed to products of decomposition. Full protective clothing is also recommended.
Hazchem Code: None allocated.
Flammability: This material is not a combustible or flammable liquid.

SECTION 6 Accidental release measures

Emergency Procedures

Keep unnecessary people away. Isolate hazard area and deny entry. If product spills onto floors it will represent a slip hazard, walk cautiously. Wear protective equipment to prevent skin and eye contact, as outlined under personal protection in this MSDS.

Methods and Materials for Containment and Cleanup Procedures

Dike area using with an absorbent such as diatomaceous earth - to prevent run off into drains and waterways. Throw further absorbent (diatomaceous earth or other inert material) on top of spill, then shovel up and seal in properly labeled containers for disposal.

SECTION 7 Handling and storage

Precautions for Safe Handling

Provide adequate ventilation. Avoid generating vapours.

Conditions for Safe Storage

Store in a cool place and out of direct sunlight. Store away from sources of heat or ignition. Store away from oxidizing agents. Keep containers closed, when not using the product. When stored at 2 - 8°C the reagent will be stable until the expiry date on the bottle and kit box labels. Store in original packaging as approved by manufacturer.

SECTION 8 Exposure controls/personal protection

8.1 Control parameters

- There are no recommended or established controls for this product.

8.2 Exposure controls

- Eyewash bottles should be available.
- Engineering controls should be provided to prevent the need for ventilation.
- No respiratory protection is needed if ventilation/extraction is adequate, otherwise wear approved dust mask, NIOSH N95 (US) or type FFP1 (EN143) dust masks.
- Wear protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374.
- Wear safety glasses approved to standard for ANSI Z87 or EN 166.

SECTION 8 Exposure controls/personal protection (continued…)

- Wear suitable protective clothing in accordance with good chemical hygiene practices.



Gloves | Safety Glasses | Lab Coat

SECTION 9 Physical and chemical properties

R1 Buffer

Appearance :Colorless

Solubility in water: Completely miscible

R2 Starter

Appearance Mild yellow color
Solubility in water: Completely miscible
Other properties
pH: 8.5 (± 0.1)

SECTION 10 Stability and reactivity

Chemical Stability: Stable under normal conditions of use.
Conditions to Avoid: Generation of vapours.
Incompatible Materials: Strong oxidizing agents.
Hazardous Decomposition Products: Decomposes on heating emitting oxides of carbon and oxides of nitrogen.
Hazardous Reactions: Will not occur.

SECTION 11 Toxicological information

There is no toxicological information available for this product
ACUTE HEALTH EFFECTS
Swallowed: Drinking large quantities of this product may cause irritation to mouth, throat and stomach, which may lead to nausea, vomiting and diarrhea.
Eye: May cause mild irritation to the eyes, with effects including: tearing, pain, stinging and blurred vision. These effects are anticipated to be of a short acting nature and no long term injury is envisaged.
Skin: May cause mild irritation to the skin.
Inhaled: If the product is heated, the vapours generated may cause irritation to the mouth, throat and upper respiratory system.
Chronic: Prolonged or repeated skin exposure may cause skin rashes in some susceptible individuals.

SECTION 12 Ecological information

12.1 Toxicity
- Quantitative data on the toxic effects of this product is not available.

12.2 Persistence and degradability
- The test kit contains plastic and other components that are not readily degradable.

12.3 Bioaccumulation Potential
- No information available

12.4 Mobility in soil
- No information available

12.5 Results of PBT and vPvB assessment
- Not a PBT according to REACH Annex XIII
- PBT/vPvB assessment not available

12.6 Other Adverse Effects
- To the best of our knowledge, the properties of this material have not been fully evaluated.
- On available data, substance is not harmful to the environment.

SECTION 13 Disposal considerations

13.1 Waste treatment methods
- Disposal should be in accordance with local, regional, national, and/or international regulations.
- Do not discharge into drains or the environment, dispose to an authorized waste collection point.
- Do not reuse empty containers.

13.2 Classification (REACH)
- Waste Codes in accordance with the European Waste catalogue (EWC) are origin-defined.

Since this product is used in several industries, no Waste Code can be provided by the supplier. The Waste Code should be determined in arrangement with your waste disposal partner or the responsible authority.

SECTION 14 Transport information

14.1 UN Number
- Not classified as hazardous for transport

14.2 UN Proper Shipping Name
- Not applicable

14.3 Transport hazard class(es)
- Not applicable

14.4 Packing group
- Not applicable

14.5 Environmental hazards
- Not Classified

14.6 Special precautions for user
- Not Classified

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code
- Not Classified

14.8 Domestic Surface Transport (US DOT)
- Proper Shipping Name: Not applicable
- DOT UN No.: Not applicable
- DOT Hazard Class: Not applicable

SECTION 14 Transport information (continued…)

- DOT Packing Group: Not applicable

14.9 International Road/Rail (ADR/RID)
- Proper Shipping Name: Not applicable
- ADR UN No.: Not applicable
- ADR Hazard Class: Not applicable
- ADR Packing Group: Not applicable
- Tunnel Code: Not applicable

14.10 Ocean/Sea (IMO/IMDG)
- Proper Shipping Name: Not applicable
- IMDG UN No.: Not applicable
- IMDG Hazard Class: Not applicable
- IMDG Packing Group: Not applicable

14.11 Air (ICAO/IATA)
- Proper Shipping Name: Not applicable
- ICAO Un No.: Not applicable
- ICAO Hazard Class: Not applicable
- ICAO Packing Group: Not applicable

SECTION 15 Regulatory information

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

- This Safety Data Sheet is provided in compliance with the EC Directive 1907/2006- 453/2010, WHMIS 2015 requirements as specified in the Hazardous Products Act (HPA) and the Hazardous Products Regulations (HPR), and with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

- Regulation (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) applies in Europe.

SECTION 16 Other information

Date of Preparation: September 2019
Revision: Rev. 0
Replaces: New issue
This document is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. Arena BioScien Manufacturers, SEA. Shall not be held liable for any damage

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