Safety Data Sheet

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

1.1 Product identifier

- Product Name: **ANTI Human Globulin**

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

- Use of the substance/preparation:Diagnostic reagent for the in-vitro qualitative determination of antibodies coating on human red blood cells.

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

- 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

Labelling according Regulation (EC) No 1272/2008

- Pictogram none
- Signal Word none
- Hazard statement(s) none
- Precautionary none
- statement(s)
- Supplemental Hazard Statements none
- EUH210 Safety data sheet available on request.
- 2.3 Other hazards
- This substance/mixture contains no components considered to be either persistent,
- bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at
- levels of 0.1% or higher.
- Ecological information:
- The substance/mixture does not contain components considered to have endocrine
- disrupting properties according to REACH Article 57(f) or Commission Delegated regulation
- (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
- Toxicological information:
- The substance/mixture does not contain components considered to have endocrine
- disrupting properties according to REACH Article 57(f) or Commission Delegated regulation
- (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3 Composition/information on ingredients

3.1 Substances

Component	Classification	Concentration
Imidazole		
CAS-No. 288-32-4 EC-No. 206-019-2 Index-No. 613-319-00-0 Registration number 01-2119485825-24-XXXX	Acute Tox. 4; Skin Corr. 1C; Eye Dam. 1; Repr. 1B; H302, H314, H318, H360D	>= 0,1 - < 0,3 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4 First aid measures

4.1 Description of first-aid measures

If inhaled

After inhalation: fresh air.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

In case of eye contact

After eye contact: rinse out with plenty of water. Remove contact lenses.

If swallowed

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5 Fire-fighting measures

- 5.1 Extinguishing media
- Suitable extinguishing media
- Use extinguishing measures that are appropriate to local circumstances and the
- surrounding environment.
- Unsuitable extinguishing media
- For this substance/mixture no limitations of extinguishing agents are given.
- 5.2 Special hazards arising from the substance or mixture
- Nature of decomposition products not known.
- Not combustible.
- Ambient fire may liberate hazardous vapours.
- 5.3 Advice for firefighters
- In the event of fire, wear self-contained breathing apparatus.
- 5.4 Further information
- Prevent fire extinguishing water from contaminating surface water or the ground water
- system.

SECTION 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb®).

Dispose of properly. Clean up affected area.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7 Handling and storage

7.1 Precautions for safe handling

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Tightly closed.

Recommended storage temperature see product label.

Storage class

Storage class (TRGS 510): 12: Non Combustible Liquids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8 Exposure controls/personal protection

8.1 Exposure limits

Sodium Azide:

	mg/m3	Ppm
TLV-TWA		
TLV-STEL		
TLV-Ceiling	0.29 (NaN3)	0.11 (HN3)
OES-LTEL		
OES-STEL	0.3 (NaN3)	
MAK	0.2	
TRK		
MAC-TGG 8h		
MAC-TGG 15min		
MAC-Ceiling	0.3	
VMA 8h		
VMA 15min	0.3	0.1
GWBB 8h		
GWBB 15min		
Momentary value	0.29	0.11
EC	0.1	
EC-STEL	0.3	

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.

SECTION 8 Exposure controls/personal protection (continued…)

- Wear safety glasses approved to standard for ANSI Z87 or EN 166.
- Wear suitable protective clothing in accordance with good chemical hygiene practices.



Gloves | Safety Glasses | Lab Coat

SECTION 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Physical state: liquid
b) Color : green
c) Odor: No data available
d) Melting point/freezing point: No data available
e) Initial boiling point and boiling range: No data available
f) Flammability (solid, gas): No data available
g) Upper/lower flammability or explosive limits: No data available
h) Flash point Not applicable
i) Autoignition temperature: Not applicable
j) Decomposition temperature: No data available
k) pH: No data available
l) Viscosity: Viscosity, kinematic: No data available
Viscosity, dynamic: No data available
m) Water solubility: soluble
n) Partition coefficient: n-octanol/water: No data available
o) Vapor pressure: No data available
p) Density: No data available
Relative density: No data available
q) Relative vapor density: No data available
r) Particle characteristics: No data available
s) Explosive properties: Not classified as explosive.
t) 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
- The product is chemically stable under standard ambient conditions (room temperature) .
- 10.3 Possibility of hazardous reactions
- Violent reactions possible with:
- The generally known reaction partners of water.
- Violent reactions possible with:
- The generally known reaction partners of water.
- 10.4 Conditions to avoid
- no information available
- 10.5 Incompatible materials
- No data available
- 10.6 Hazardous decomposition products
- In the event of fire: see section 5.

SECTION 11 Toxicological information

11.1 Information on toxicological effects
Mixture
Acute toxicity
Oral: No data available
Inhalation: No data available
Dermal: No data available
Skin corrosion/irritation
No data available
Serious eye damage/eye irritation
No data available
Respiratory or skin sensitization
No data available
Germ cell mutagenicity
No data available
Carcinogenicity
No data available
Reproductive toxicity
No data available
Specific target organ toxicity - single exposure: No data available
Specific target organ toxicity - repeated exposure: No data available
Aspiration hazard
No data available
11.2 Additional Information
Endocrine disrupting properties
Product:
Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately.
Components
Imidazole
-Acute toxicity:
LD50 Oral - Rat - 970 mg/kg
(OECD Test Guideline 401)
Acute toxicity estimate Oral - 970 mg/kg
(ATE value derived from LD50/LC50 value)
Inhalation: No data available
Dermal: No data available
-Skin corrosion/irritation
Skin - Rabbit
Result: Corrosive after 1 to 4 hours of exposure - 4 h
(OECD Test Guideline 404)
Remarks: (Regulation (EC) No 1272/2008, Annex VI)
-Serious eye damage/eye irritation
Eyes - Rabbit
Result: Causes serious eye damage.
(OECD Test Guideline 405)
Remarks: Causes serious eye damage.

Respiratory or skin sensitization
No data available

Germ cell mutagenicity
Test Type: Ames test
Test system: Salmonella typhimurium
Result: negative
Test Type: In vitro mammalian cell gene mutation test
Test system: Chinese hamster lung cells
Result: negative
Test Type: In vitro mammalian cell gene mutation test
Test system: mouse lymphoma cells
Result: negative
Test Type: unscheduled DNA synthesis assay
Test system: rat hepatocytes
Result: negative
Method: OECD Test Guideline 474
Species: Mouse - male and female - Bone marrow
Result: negative
Carcinogenicity
No data available
Reproductive toxicity
May damage the unborn child.
Specific target organ toxicity - single exposure
No data available
Specific target organ toxicity - repeated exposure
Aspiration hazard
No data available

SECTION 12 Ecological information

12.1 Toxicity
Mixture
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 contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
12.6 Endocrine disrupting properties
Product:
Assessment : The substance/mixture does not contain components considered to have endocrin disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
12.7 Other adverse effects
No data available
Components
Imidazole
Toxicity to daphnia and other aquatic invertebrates:
static test EC50 - Daphnia magna (Water flea) - 341,5 mg/l -48 h
(Regulation (EC) No. 440/2008, Annex, C.2)
Toxicity to algae:
static test ErC50 - Desmodesmus subspicatus (green algae) -133 mg/l - 72 h
(DIN 38412)
Toxicity to bacteria:
static test EC50 - activated sludge - > 1.000 mg/l - 30 min
(OECD Test Guideline 209)

Aquatic toxicity

Sodium azide: - LC50 (96 h) : 0.8 mg/l (SALMO GAIRDNERI/ONCORHYNCHUS MYKISS)
- LC50 (96 h) : 0.7 mg/l (LEPOMIS MACROCHIRUS)
- LC50 (48 h) : 9 mg/l (GAMMARUS SP.)

Other information

- Effect on the ozone layer: Not dangerous for the ozone layer (1999/45/EC)
- Greenhouse effect: No data available
- Effect on waste water purification: No data available.

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
- DOT Packing Group: Not applicable

14.9 International Road/Rail (ADR/RID)
- Proper Shipping Name: Not applicable
- ADR UN No.: Not applicable

SECTION 14 Transport information (continued…)

- 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

Classification according to directives 67/548/EEC, 1999/45/EC.
Contains sodium azide


Xn Harmful
R22: Harmful if swallowed
S23: Do not breathe vapour
S46: If swallowed, seek medical advice immediately and show this container or label
S61: Avoids release to the environment. Refer to special instructions/safety data sheets.

SECTION 16 Other information

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Replaces: New issue
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