

# AQUAbluing Reagent

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations  
Issue date: 11/19/2024 Version: 1.0

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Product name : AQUAbluing Reagent  
Product code : 3357 - all sizes  
Other means of identification : Scott's Tap Water; Scott's Tap Water Substitute

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : For laboratory and manufacturing use only  
For professional use only  
Restrictions on use : Not for food, drug or household use

#### 1.3. Supplier

Astral Diagnostics  
Ethos Biosciences, Inc.  
2070 Center Square Road  
Logan Township, New Jersey 08085  
United States  
T +1-856-224-0900; +1-800-441-0366 Technical Service; Monday-Friday: 8:00 AM-5:00 PM, Eastern US Time  
[www.ethosbiosciences.com](http://www.ethosbiosciences.com)

#### 1.4. Emergency telephone number

Emergency number : 800-424-9300 CHEMTREC (USA) -- 24 Hours/Day, 7 Days/Week

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

Not classified

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labeling

No labeling applicable

#### 2.3. Other hazards which do not result in classification

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

No additional information available

### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

Not applicable

# AQUAbluing Reagent

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 3.2. Mixtures

| Name                           | Product identifier  | Conc. | GHS US classification                     |
|--------------------------------|---------------------|-------|-------------------------------------------|
| water                          | CAS-No.: 7732-18-5  | > 97  | Not classified                            |
| sodium bicarbonate             | CAS-No.: 144-55-8   | 2     | Acute Tox. 4 (Inhalation:dust,mist), H332 |
| formaldehyde                   | CAS-No.: 50-00-0    | < 0.5 | Carc. 1A, H350                            |
| magnesium sulfate heptahydrate | CAS-No.: 10034-99-8 | 0.2   | Not classified                            |

Full text of hazard classes and H-statements : see section 16

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

|                                       |                                                                  |
|---------------------------------------|------------------------------------------------------------------|
| First-aid measures general            | : If you feel unwell, seek medical advice.                       |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing. |
| First-aid measures after skin contact | : Wash skin with plenty of water.                                |
| First-aid measures after eye contact  | : Rinse eyes with water as a precaution.                         |
| First-aid measures after ingestion    | : Call a poison center/doctor/physician if you feel unwell.      |

### 4.2. Most important symptoms and effects (acute and delayed)

|                                     |                                                                                                                                         |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms/effects after inhalation   | : Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard. |
| Symptoms/effects after skin contact | : None under normal conditions.                                                                                                         |
| Symptoms/effects after eye contact  | : None under normal conditions.                                                                                                         |
| Symptoms/effects after ingestion    | : None under normal conditions.                                                                                                         |

### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

|                                |                                                  |
|--------------------------------|--------------------------------------------------|
| Suitable extinguishing media   | : Water spray. Dry powder. Foam. Carbon dioxide. |
| Unsuitable extinguishing media | : Do not use a heavy water stream.               |

### 5.2. Specific hazards arising from the chemical

|                                                  |                                |
|--------------------------------------------------|--------------------------------|
| Fire hazard                                      | : No fire hazard.              |
| Explosion hazard                                 | : No direct explosion hazard.  |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |

### 5.3. Special protective equipment and precautions for fire-fighters

|                                |                                                                                                                                                       |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Firefighting instructions      | : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.              |

# AQUAbluing Reagent

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material-damage.

##### 6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.  
Emergency procedures : Ventilate spillage area.

##### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".  
Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

For containment : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak, if possible without risk.  
Methods for cleaning up : Take up liquid spill into absorbent material.  
Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.  
Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.  
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep in a cool, well-ventilated place away from heat.  
Storage conditions : Keep cool. Protect from sunlight.  
Packaging materials : Store always product in container of same material as original container.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.  
Environmental exposure controls : Avoid release to the environment.

# AQUAbluing Reagent

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Wear recommended personal protective equipment.

##### Hand protection:

Protective gloves

##### Eye protection:

Safety glasses

##### Skin and body protection:

Wear suitable protective clothing

##### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

#### Personal protective equipment symbol(s):



## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                                                 |                                                                                                                             |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Physical state                                  | : Liquid                                                                                                                    |
| Appearance                                      | : Clear, colorless liquid.                                                                                                  |
| Color                                           | : No data available                                                                                                         |
| Odor                                            | : odorless                                                                                                                  |
| Odor threshold                                  | : No data available                                                                                                         |
| pH                                              | : 8.3 – 8.7                                                                                                                 |
| Melting point                                   | : Not applicable                                                                                                            |
| Freezing point                                  | : No data available                                                                                                         |
| Boiling point                                   | : No data available                                                                                                         |
| Flash point                                     | : No data available                                                                                                         |
| Relative evaporation rate (butyl acetate=1)     | : No data available                                                                                                         |
| Flammability (solid, gas)                       | : Not applicable.                                                                                                           |
| Vapor pressure                                  | : No data available                                                                                                         |
| Relative vapor density at 20°C                  | : No data available                                                                                                         |
| Relative density                                | : No data available                                                                                                         |
| Density                                         | : 1 g/ml                                                                                                                    |
| Solubility                                      | : Miscible with water.<br>Water: Solubility in water of component(s) of the mixture :<br>• sodium bicarbonate: 9.34 g/100ml |
| Partition coefficient n-octanol/water (Log Pow) | : No data available                                                                                                         |
| Auto-ignition temperature                       | : No data available                                                                                                         |
| Decomposition temperature                       | : No data available                                                                                                         |
| Viscosity, kinematic                            | : No data available                                                                                                         |
| Viscosity, dynamic                              | : No data available                                                                                                         |
| Explosion limits                                | : No data available                                                                                                         |
| Explosive properties                            | : No data available                                                                                                         |
| Oxidizing properties                            | : No data available                                                                                                         |

#### sodium bicarbonate

|               |                             |
|---------------|-----------------------------|
| Boiling point | Not applicable (decomposes) |
|---------------|-----------------------------|

# AQUAbluing Reagent

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### sodium bicarbonate

|                           |                                                  |
|---------------------------|--------------------------------------------------|
| Flash point               | Not applicable                                   |
| Auto-ignition temperature | Not applicable                                   |
| Vapor pressure            | 0.67 hPa (20 °C, EU Method A.4: Vapour Pressure) |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

|                             |                  |
|-----------------------------|------------------|
| Acute toxicity (oral)       | : Not classified |
| Acute toxicity (dermal)     | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

### sodium bicarbonate (144-55-8)

|                       |                                                                                                                                 |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------|
| LD50 oral rat         | > 4000 mg/kg (FIFRA (40 CFR), Rat, Male / female, Experimental value, Oral)                                                     |
| LC50 Inhalation - Rat | > 4.74 mg/l (EPA OTS 798.1150: Acute inhalation toxicity, 4.5 h, Rat, Male / female, Experimental value, Inhalation, 14 day(s)) |
| ATE US (dust, mist)   | 1.5 mg/l/4h                                                                                                                     |

|                           |                                   |
|---------------------------|-----------------------------------|
| Skin corrosion/irritation | : Not classified<br>pH: 8.3 – 8.7 |
|---------------------------|-----------------------------------|

### sodium bicarbonate (144-55-8)

|    |         |
|----|---------|
| pH | 8 (5 %) |
|----|---------|

|                               |                                   |
|-------------------------------|-----------------------------------|
| Serious eye damage/irritation | : Not classified<br>pH: 8.3 – 8.7 |
|-------------------------------|-----------------------------------|

# AQUAbluing Reagent

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| sodium bicarbonate (144-55-8)          |                                                                                                                                         |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| pH                                     | 8 (5 %)                                                                                                                                 |
| Respiratory or skin sensitization      | : Not classified                                                                                                                        |
| Germ cell mutagenicity                 | : Not classified                                                                                                                        |
| Carcinogenicity                        | : Not classified                                                                                                                        |
| formaldehyde (50-00-0)                 |                                                                                                                                         |
| IARC group                             | 1 - Carcinogenic to humans                                                                                                              |
| National Toxicity Program (NTP) Status | Known Human Carcinogens                                                                                                                 |
| Reproductive toxicity                  | : Not classified                                                                                                                        |
| STOT-single exposure                   | : Not classified                                                                                                                        |
| STOT-repeated exposure                 | : Not classified                                                                                                                        |
| Aspiration hazard                      | : Not classified                                                                                                                        |
| Viscosity, kinematic                   | : No data available                                                                                                                     |
| Symptoms/effects after inhalation      | : Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard. |
| Symptoms/effects after skin contact    | : None under normal conditions.                                                                                                         |
| Symptoms/effects after eye contact     | : None under normal conditions.                                                                                                         |
| Symptoms/effects after ingestion       | : None under normal conditions.                                                                                                         |

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

| sodium bicarbonate (144-55-8) |                                                                                                                |
|-------------------------------|----------------------------------------------------------------------------------------------------------------|
| LC50 - Fish [1]               | 7100 mg/l (EPA OPP 72-1, 96 h, Lepomis macrochirus, Flow-through system, Fresh water, Experimental value, GLP) |
| EC50 - Crustacea [1]          | 4100 mg/l (EPA OPP 72-2, 48 h, Daphnia magna, Flow-through system, Fresh water, Experimental value, GLP)       |

### 12.2. Persistence and degradability

| AQUAbluing Reagent                          |                                   |
|---------------------------------------------|-----------------------------------|
| Persistence and degradability               | Not rapidly degradable            |
| water (7732-18-5)                           |                                   |
| Persistence and degradability               | Not rapidly degradable            |
| formaldehyde (50-00-0)                      |                                   |
| Persistence and degradability               | Not rapidly degradable            |
| sodium bicarbonate (144-55-8)               |                                   |
| Persistence and degradability               | Biodegradability: not applicable. |
| ThOD                                        | Not applicable (inorganic)        |
| magnesium sulfate heptahydrate (10034-99-8) |                                   |
| Persistence and degradability               | Not rapidly degradable            |

# AQUAbluing Reagent

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 12.3. Bioaccumulative potential

#### sodium bicarbonate (144-55-8)

|                                                 |                         |
|-------------------------------------------------|-------------------------|
| Partition coefficient n-octanol/water (Log Pow) | -4.01 (Estimated value) |
|-------------------------------------------------|-------------------------|

|                           |                      |
|---------------------------|----------------------|
| Bioaccumulative potential | Not bioaccumulative. |
|---------------------------|----------------------|

### 12.4. Mobility in soil

#### sodium bicarbonate (144-55-8)

|                |                                                       |
|----------------|-------------------------------------------------------|
| Ecology - soil | No (test)data on mobility of the substance available. |
|----------------|-------------------------------------------------------|

### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

|                                            |                                                                                               |
|--------------------------------------------|-----------------------------------------------------------------------------------------------|
| Regional waste regulation                  | : Disposal must be done according to official regulations.                                    |
| Waste treatment methods                    | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Sewage disposal recommendations            | : Disposal must be done according to official regulations.                                    |
| Product/Packaging disposal recommendations | : Disposal must be done according to official regulations.                                    |
| Additional information                     | : Do not re-use empty containers.                                                             |

## SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

### 14.1. UN number

Not regulated for transport

### 14.2. UN proper shipping name

|                             |                 |
|-----------------------------|-----------------|
| Proper Shipping Name (DOT)  | : Not regulated |
| Proper Shipping Name (TDG)  | : Not regulated |
| Proper Shipping Name (IMDG) | : Not regulated |
| Proper Shipping Name (IATA) | : Not regulated |

### 14.3. Transport hazard class(es)

**DOT**  
Transport hazard class(es) (DOT) : Not regulated

**TDG**  
Transport hazard class(es) (TDG) : Not regulated

**IMDG**  
Transport hazard class(es) (IMDG) : Not regulated

**IATA**  
Transport hazard class(es) (IATA) : Not regulated

### 14.4. Packing group

|                     |                 |
|---------------------|-----------------|
| Packing group (DOT) | : Not regulated |
| Packing group (TDG) | : Not regulated |

# AQUAbluing Reagent

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Packing group (IMDG) : Not regulated  
Packing group (IATA) : Not regulated

### 14.5. Environmental hazards

Other information : No supplementary information available.

### 14.6. Special precautions for user

#### DOT

Not regulated

#### TDG

Not regulated

#### IMDG

Not regulated

#### IATA

Not regulated

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for:

|                                |                    |      |
|--------------------------------|--------------------|------|
| magnesium sulfate heptahydrate | CAS-No. 10034-99-8 | 0.2% |
|--------------------------------|--------------------|------|

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

|                   |                 |        |
|-------------------|-----------------|--------|
| formaldehyde ...% | CAS-No. 50-00-0 | < 0.5% |
|-------------------|-----------------|--------|

#### formaldehyde (50-00-0)

Listed on EPA Hazardous Air Pollutant (HAPS)

|           |        |
|-----------|--------|
| CERCLA RQ | 100 lb |
|-----------|--------|

|                                                              |        |
|--------------------------------------------------------------|--------|
| RQ (Reportable quantity, section 304 of EPA's List of Lists) | 100 lb |
|--------------------------------------------------------------|--------|

|                                                    |        |
|----------------------------------------------------|--------|
| SARA Section 302 Threshold Planning Quantity (TPQ) | 500 lb |
|----------------------------------------------------|--------|

### 15.2. International regulations

#### CANADA

#### water (7732-18-5)

Listed on the Canadian DSL (Domestic Substances List)

#### formaldehyde (50-00-0)

Listed on the Canadian DSL (Domestic Substances List)

# AQUAbluing Reagent

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### sodium bicarbonate (144-55-8)

Listed on the Canadian DSL (Domestic Substances List)

### magnesium sulfate heptahydrate (10034-99-8)

Listed on the Canadian DSL (Domestic Substances List)

### EU-Regulations

No additional information available

### National regulations

#### water (7732-18-5)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### formaldehyde (50-00-0)

Listed on IARC (International Agency for Research on Cancer)

Listed as carcinogen on NTP (National Toxicology Program)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### sodium bicarbonate (144-55-8)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### magnesium sulfate heptahydrate (10034-99-8)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

### 15.3. US State regulations

 **WARNING:** This product can expose you to formaldehyde, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

| Component             | State or local regulations                                                                                                                            |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| formaldehyde(50-00-0) | U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List |

## SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### Full text of hazard classes and H-statements

|      |                    |
|------|--------------------|
| H332 | Harmful if inhaled |
| H350 | May cause cancer   |

NFPA health hazard

: 1 - Materials that, under emergency conditions, can cause significant irritation.

NFPA fire hazard

: 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.

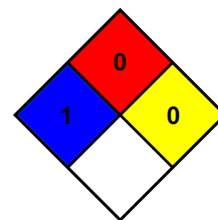
# AQUAbluing Reagent

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

NFPA reactivity

: 0 - Material that in themselves are normally stable, even under fire conditions.



Safety Data Sheet (SDS), USA

DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness