

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## QIAwave DNA Blood&Tissue Kit (250)

Version  
2.0

Revision Date:  
11/12/2025

Date of last issue: 02/22/2024  
Date of first issue: 02/07/2024

### Safety Data Sheet (SDS) cover letter for product:

#### QIAwave DNA Blood&Tissue Kit (250)

Catalog number: 69556R  
Document ID: 800000011708  
Country / Language: US / EN

This product contains one or more components with related SDS, listed below. You can find the SDS for each component on the following pages.

#### Components with SDS:

- Buffer AW1 + Ethanol, reconst. Version: 2.0
- Buffer AW2 + Ethanol, reconst. Version: 2.0
- Buffer AE reconst. Version: 2.0

Kind regards,  
Your QIAGEN Team

Email [cpc@qiagen.com](mailto:cpc@qiagen.com) | Website [www.qiagen.com/safety](http://www.qiagen.com/safety)

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### SECTION 1. IDENTIFICATION

Product name : Buffer AW1 + Ethanol, reconst.

#### Manufacturer or supplier's details

Company : QIAGEN GmbH  
QIAGEN Str. 1  
D-40724 Hilden

Telephone : +49-(0)2103-29-0

Responsible Department : QIAGEN Inc.  
19300 Germantown Road  
Germantown, MD 20874, USA  
Tel.: 800-426-8157  
<http://support.qiagen.com>

E-mail address : [cpc@qiagen.com](mailto:cpc@qiagen.com)  
Responsible/issuing person

Emergency telephone : CHEMTREC  
USA & Canada 1-800-424-9300  
CHEMTREC: 1-800-424-9300

#### Recommended use of the chemical and restrictions on use

Recommended use : Laboratory chemicals

Restrictions on use : This product is either (1) provided under the research & development exemption to the Toxic Substances Control Act (TSCA) and intended exclusively for research and development use (40 CFR 720.36), or (2) a material regulated under the Federal Food, Drugs, and Cosmetics Act (FFDCA). Refer to the specific product handbook or instructions for use to confirm the intended use of the product. If the product does not bear an "IVD" label, it is for research and development use only.

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids : Category 2

Skin irritation : Category 2

Eye irritation : Category 2A

#### GHS label elements

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Hazard pictograms

:



Signal Word

:

Danger

Hazard Statements

:

H225 Highly flammable liquid and vapor.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.

Precautionary Statements

:

### Prevention:

P210 Keep away from heat/ sparks/ open flames/ hot surfaces.  
No smoking.

P280 Wear protective gloves/ protective clothing/ eye protection/  
face protection.

### Response:

P362 Take off contaminated clothing and wash before reuse.

### Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

### Disposal:

P501 Dispose of contents/ container to an approved waste  
disposal plant.

### Other hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

:

Mixture

### Components

| Chemical name           | CAS-No. | Concentration (% w/w) |
|-------------------------|---------|-----------------------|
| ethanol                 | 64-17-5 | >= 50 - < 70          |
| guanidine hydrochloride | 50-01-1 | >= 20 - < 30          |

Actual concentration is withheld as a trade secret

## SECTION 4. FIRST AID MEASURES

General advice

:

Move out of dangerous area.  
Show this material safety data sheet to the doctor in  
attendance.

If inhaled

:

If unconscious, place in recovery position and seek medical  
advice.

In case of skin contact

:

If symptoms persist, call a physician.  
Wash off immediately with soap and plenty of water while  
removing all contaminated clothes and shoes.

In case of eye contact

:

Immediately flush eye(s) with plenty of water.

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|                                                             |   |                                                                                                                                                    |
|-------------------------------------------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                             |   | Remove contact lenses.<br>Protect unharmed eye.<br>Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.          |
| If swallowed                                                | : | If accidentally swallowed obtain immediate medical attention.<br>Rinse mouth with water.<br>Never give anything by mouth to an unconscious person. |
| Most important symptoms and effects, both acute and delayed | : | Causes skin irritation.<br>Causes serious eye irritation.                                                                                          |
| Notes to physician                                          | : | No information available.                                                                                                                          |

### SECTION 5. FIRE-FIGHTING MEASURES

|                                                |   |                                                                                                                                            |
|------------------------------------------------|---|--------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media                   | : | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.                                                                   |
| Specific hazards during fire fighting          | : | Do not allow run-off from fire fighting to enter drains or water courses.<br>Exposure to decomposition products may be a hazard to health. |
| Hazardous combustion products                  | : | Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).                                                                         |
| Further information                            | : | In the event of fire and/or explosion do not breathe fumes.<br>Use a water spray to cool fully closed containers.                          |
| Special protective equipment for fire-fighters | : | Wear self-contained breathing apparatus for firefighting if necessary.                                                                     |

### SECTION 6. ACCIDENTAL RELEASE MEASURES

|                                                                     |   |                                                                                                                                                                                                                                                                                                            |
|---------------------------------------------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions, protective equipment and emergency procedures | : | Use personal protective equipment.<br>Ensure adequate ventilation.<br>Remove all sources of ignition.<br>Evacuate personnel to safe areas.<br>Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.<br>Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. |
| Environmental precautions                                           | : | Prevent product from entering drains.<br>Prevent further leakage or spillage if safe to do so.                                                                                                                                                                                                             |
| Methods and materials for containment and cleaning up               | : | Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).                                                                            |

### SECTION 7. HANDLING AND STORAGE

|                              |   |                                                             |
|------------------------------|---|-------------------------------------------------------------|
| Advice on protection against | : | Take necessary action to avoid static electricity discharge |
|------------------------------|---|-------------------------------------------------------------|

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- fire and explosion (which might cause ignition of organic vapors).  
Use only explosion-proof equipment.  
Keep away from open flames, hot surfaces and sources of ignition.
- Advice on safe handling : Avoid formation of aerosol.  
Do not breathe vapors/dust.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Open drum carefully as content may be under pressure.  
Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
- Materials to avoid : Do not store together with oxidizing and self-igniting products.
- Further information on storage stability : No decomposition if stored and applied as directed.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

| Components | CAS-No. | Value type<br>(Form of exposure) | Control parameters / Permissible concentration | Basis    |
|------------|---------|----------------------------------|------------------------------------------------|----------|
| ethanol    | 64-17-5 | STEL                             | 1,000 ppm                                      | ACGIH    |
|            |         | TWA                              | 1,000 ppm<br>1,900 mg/m3                       | OSHA Z-1 |
|            |         | TWA                              | 1,000 ppm<br>1,900 mg/m3                       | OSHA P0  |

### Personal protective equipment

#### Hand protection

Material : Protective gloves

Remarks : The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.  
The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Eye protection : Safety glasses  
Wear face-shield and protective suit for abnormal processing problems.  
Ensure that eyewash stations and safety showers are close

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|                          |   |                                                                                                                                                                                                                                            |
|--------------------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Skin and body protection | : | to the workstation location.<br>Choose body protection according to the amount and concentration of the dangerous substance at the work place.<br>Footwear protecting against chemicals<br>Workers should wear antistatic footwear.        |
| Hygiene measures         | : | Keep away from food and drink.<br>Wash hands before breaks and at the end of workday.<br>Ensure adequate ventilation, especially in confined areas.<br>Avoid contact with the skin and the eyes.<br>When using do not eat, drink or smoke. |

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                                  |   |                   |
|--------------------------------------------------|---|-------------------|
| Appearance                                       | : | liquid            |
| Color                                            | : | colorless         |
| Odor                                             | : | No data available |
| Odor Threshold                                   | : | No data available |
| pH                                               | : | No data available |
| Melting point/ range                             | : | No data available |
| Boiling point/boiling range                      | : | No data available |
| Flash point                                      | : | No data available |
| Evaporation rate                                 | : | No data available |
| Burning rate                                     | : | No data available |
| Upper explosion limit / Upper flammability limit | : | No data available |
| Lower explosion limit / Lower flammability limit | : | No data available |
| Vapor pressure                                   | : | No data available |
| Relative vapor density                           | : | No data available |
| Relative density                                 | : | No data available |
| Density                                          | : | No data available |
| Solubility(ies)                                  |   |                   |
| Water solubility                                 | : | soluble           |
| Solubility in other solvents                     | : | No data available |
| Partition coefficient: n-octanol/water           | : | No data available |

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|                           |   |                   |
|---------------------------|---|-------------------|
| Autoignition temperature  | : | No data available |
| Decomposition temperature | : | No data available |
| Viscosity                 |   |                   |
| Viscosity, dynamic        | : | No data available |
| Viscosity, kinematic      | : | No data available |
| Explosive properties      | : | No data available |
| Oxidizing properties      | : | No data available |

### SECTION 10. STABILITY AND REACTIVITY

|                                    |   |                                                                                                                                                                                                                                    |
|------------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity                         | : | No decomposition if stored and applied as directed.                                                                                                                                                                                |
| Chemical stability                 | : | No decomposition if stored and applied as directed.                                                                                                                                                                                |
| Possibility of hazardous reactions | : | Stable under recommended storage conditions.<br>Hazardous decomposition products formed under fire conditions.<br>Vapors may form explosive mixture with air.<br>Keep away from oxidizing agents, and acidic or alkaline products. |
| Conditions to avoid                | : | Heat, flames and sparks.                                                                                                                                                                                                           |
| Incompatible materials             | : | No data available                                                                                                                                                                                                                  |
| Hazardous decomposition products   | : | No decomposition if stored and applied as directed.<br><br>No hazardous decomposition products are known.                                                                                                                          |

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Not classified due to lack of data.

#### Product:

Acute oral toxicity : Remarks: No data available

#### Components:

##### ethanol:

|                           |   |                                              |
|---------------------------|---|----------------------------------------------|
| Acute oral toxicity       | : | LD50 Oral (Rat): 10,470 mg/kg                |
| Acute inhalation toxicity | : | LC50 (Rat): 20000 ppm<br>Exposure time: 10 h |

##### guanidine hydrochloride:

|                     |   |                              |
|---------------------|---|------------------------------|
| Acute oral toxicity | : | LD50 Oral (Rat): 1,120 mg/kg |
|---------------------|---|------------------------------|

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### Skin corrosion/irritation

Causes skin irritation.

#### Product:

Remarks : May irritate skin.

### Serious eye damage/eye irritation

Causes serious eye irritation.

#### Product:

Remarks : May cause irreversible eye damage.

### Components:

#### ethanol:

Result : Eye irritation

### Respiratory or skin sensitization

#### Skin sensitization

Not classified due to lack of data.

#### Respiratory sensitization

Not classified due to lack of data.

#### Product:

Remarks : No data available

### Germ cell mutagenicity

Not classified due to lack of data.

### Carcinogenicity

Not classified due to lack of data.

**IARC** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

### Reproductive toxicity

Not classified due to lack of data.

### STOT-single exposure

Not classified due to lack of data.

### STOT-repeated exposure

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### Aspiration toxicity

Not classified due to lack of data.

### Further information

#### Product:

Remarks : Solvents may degrease the skin.

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Product:

Toxicity to fish : Remarks: No data available

Toxicity to algae/aquatic plants : Remarks: No data available

Toxicity to microorganisms : Remarks: No data available

### Persistence and degradability

#### Components:

##### ethanol:

Biodegradability : Result: Readily biodegradable.

##### guanidine hydrochloride:

Biodegradability : Method: OECD Test Guideline 301C  
Remarks: According to the results of tests of biodegradability this product is not readily biodegradable.

### Bioaccumulative potential

#### Product:

Bioaccumulation : Remarks: No data available

#### Components:

##### guanidine hydrochloride:

Partition coefficient: n-octanol/water : log Pow: ca. -1.7 (68 °F / 20 °C)

### Mobility in soil

No data available

### Other adverse effects

#### Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82  
Protection of Stratospheric Ozone - CAA Section 602 Class I

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### Substances

Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : No data available

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : Send to a licensed waste management company.  
Dispose of as hazardous waste in compliance with local and national regulations.

Contaminated packaging : Dispose of as unused product.  
Do not re-use empty containers.

## SECTION 14. TRANSPORT INFORMATION

### International Regulations

#### UNRTDG

UN number : UN 1170  
Proper shipping name : ETHANOL SOLUTION  
Class : 3  
Packing group : II  
Labels : 3  
Environmentally hazardous : no

#### IATA-DGR

UN/ID No. : UN 1170  
Proper shipping name : Ethanol solution  
Class : 3  
Packing group : II  
Labels : Flammable Liquids  
Packing instruction (cargo aircraft) : 364  
Packing instruction (passenger aircraft) : 353

#### IMDG-Code

UN number : UN 1170  
Proper shipping name : ETHANOL SOLUTION  
Class : 3  
Packing group : II  
Labels : 3  
EmS Code : F-E, S-D  
Marine pollutant : no

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

Not applicable for product as supplied.

### Domestic regulation

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### 49 CFR

UN/ID/NA number : UN 1170  
Proper shipping name : Ethanol solutions  
Class : 3  
Packing group : II  
Labels : FLAMMABLE LIQUID  
ERG Code : 127  
Marine pollutant : no

### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## SECTION 15. REGULATORY INFORMATION

### CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : Flammable (gases, aerosols, liquids, or solids)  
Skin corrosion or irritation  
Serious eye damage or eye irritation

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### California List of Hazardous Substances

ethanol 64-17-5

### California Permissible Exposure Limits for Chemical Contaminants

ethanol 64-17-5

### TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

## SECTION 16. OTHER INFORMATION

### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
OSHA P0 : USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)

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|                |   |                                                                                     |
|----------------|---|-------------------------------------------------------------------------------------|
| OSHA Z-1       | : | USA. Occupational Exposure Limits (OSHA) - Table Z-1<br>Limits for Air Contaminants |
| ACGIH / STEL   | : | Short-term exposure limit                                                           |
| OSHA P0 / TWA  | : | 8-hour time weighted average                                                        |
| OSHA Z-1 / TWA | : | 8-hour time weighted average                                                        |

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECl - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

SDS Number : 600000012078

Revision Date : 11/12/2025

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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### SECTION 1. IDENTIFICATION

Product name : Buffer AW2 + Ethanol, reconst.

#### Manufacturer or supplier's details

Company : QIAGEN GmbH  
QIAGEN Str. 1  
D-40724 Hilden

Telephone : +49-(0)2103-29-0

Responsible Department : QIAGEN Inc.  
19300 Germantown Road  
Germantown, MD 20874, USA  
Tel.: 800-426-8157  
<http://support.qiagen.com>

E-mail address : [cpc@qiagen.com](mailto:cpc@qiagen.com)  
Responsible/issuing person

Emergency telephone : CHEMTREC  
USA & Canada 1-800-424-9300  
CHEMTREC: 1-800-424-9300

#### Recommended use of the chemical and restrictions on use

Recommended use : Laboratory chemicals

Restrictions on use : This product is either (1) provided under the research & development exemption to the Toxic Substances Control Act (TSCA) and intended exclusively for research and development use (40 CFR 720.36), or (2) a material regulated under the Federal Food, Drugs, and Cosmetics Act (FFDCA). Refer to the specific product handbook or instructions for use to confirm the intended use of the product. If the product does not bear an "IVD" label, it is for research and development use only.

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids : Category 2

Eye irritation : Category 2A

#### GHS label elements

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Hazard pictograms

:



Signal Word

:

Danger

Hazard Statements

:

H225 Highly flammable liquid and vapor.  
H319 Causes serious eye irritation.

Precautionary Statements

:

### Prevention:

P210 Keep away from heat/ sparks/ open flames/ hot surfaces.  
No smoking.

P280 Wear protective gloves/ protective clothing/ eye protection/  
face protection.

### Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

### Disposal:

P501 Dispose of contents/ container to an approved waste  
disposal plant.

### Other hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

:

Mixture

### Components

| Chemical name | CAS-No. | Concentration (% w/w) |
|---------------|---------|-----------------------|
| ethanol       | 64-17-5 | >= 70 - < 90          |

Actual concentration is withheld as a trade secret

## SECTION 4. FIRST AID MEASURES

General advice

:

Move out of dangerous area.  
Show this material safety data sheet to the doctor in  
attendance.

If inhaled

:

If unconscious, place in recovery position and seek medical  
advice.

In case of skin contact

:

If symptoms persist, call a physician.  
Wash off immediately with soap and plenty of water while  
removing all contaminated clothes and shoes.

In case of eye contact

:

If symptoms persist, call a physician.  
Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
Protect unharmed eye.  
Rinse thoroughly with plenty of water for at least 15 minutes  
and consult a physician.

If swallowed

:

If accidentally swallowed obtain immediate medical attention.

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|                                                             |   |                                                        |
|-------------------------------------------------------------|---|--------------------------------------------------------|
| Most important symptoms and effects, both acute and delayed |   | Rinse mouth with water.                                |
|                                                             |   | Never give anything by mouth to an unconscious person. |
|                                                             | : | Causes serious eye irritation.                         |
| Notes to physician                                          | : | No information available.                              |

### SECTION 5. FIRE-FIGHTING MEASURES

|                                                |   |                                                                                                                                            |
|------------------------------------------------|---|--------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media                   | : | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.                                                                   |
| Specific hazards during fire fighting          | : | Do not allow run-off from fire fighting to enter drains or water courses.<br>Exposure to decomposition products may be a hazard to health. |
| Hazardous combustion products                  | : | Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).                                                                         |
| Further information                            | : | In the event of fire and/or explosion do not breathe fumes.<br>Use a water spray to cool fully closed containers.                          |
| Special protective equipment for fire-fighters | : | Wear self-contained breathing apparatus for firefighting if necessary.                                                                     |

### SECTION 6. ACCIDENTAL RELEASE MEASURES

|                                                                     |   |                                                                                                                                                                                                                                                                                                            |
|---------------------------------------------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions, protective equipment and emergency procedures | : | Use personal protective equipment.<br>Ensure adequate ventilation.<br>Remove all sources of ignition.<br>Evacuate personnel to safe areas.<br>Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.<br>Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. |
| Environmental precautions                                           | : | Prevent product from entering drains.<br>Prevent further leakage or spillage if safe to do so.                                                                                                                                                                                                             |
| Methods and materials for containment and cleaning up               | : | Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).                                                                            |

### SECTION 7. HANDLING AND STORAGE

|                                                 |   |                                                                                                                                                                                                                         |
|-------------------------------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Advice on protection against fire and explosion | : | Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).<br>Use only explosion-proof equipment.<br>Keep away from open flames, hot surfaces and sources of ignition. |
|-------------------------------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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- Advice on safe handling : Avoid formation of aerosol.  
Do not breathe vapors/dust.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Open drum carefully as content may be under pressure.  
Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
- Materials to avoid : Do not store together with oxidizing and self-igniting products.
- Further information on storage stability : No decomposition if stored and applied as directed.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

| Components | CAS-No. | Value type<br>(Form of exposure) | Control parameters /<br>Permissible concentration | Basis    |
|------------|---------|----------------------------------|---------------------------------------------------|----------|
| ethanol    | 64-17-5 | STEL                             | 1,000 ppm                                         | ACGIH    |
|            |         | TWA                              | 1,000 ppm<br>1,900 mg/m3                          | OSHA Z-1 |
|            |         | TWA                              | 1,000 ppm<br>1,900 mg/m3                          | OSHA P0  |

#### Personal protective equipment

##### Hand protection

Material : Protective gloves

Remarks : The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.  
The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Eye protection : Safety glasses  
Wear face-shield and protective suit for abnormal processing problems.  
Ensure that eyewash stations and safety showers are close to the workstation location.

Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
Footwear protecting against chemicals  
Workers should wear antistatic footwear.

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Hygiene measures : Keep away from food and drink.  
Wash hands before breaks and at the end of workday.  
Ensure adequate ventilation, especially in confined areas.  
Avoid contact with the skin and the eyes.  
When using do not eat, drink or smoke.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Color : colorless

Odor : No data available

Odor Threshold : No data available

pH : No data available

Melting point/ range : No data available

Boiling point/boiling range : No data available

Flash point : No data available

Evaporation rate : No data available

Burning rate : No data available

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapor pressure : No data available

Relative vapor density : No data available

Relative density : No data available

Density : No data available

Solubility(ies)

Water solubility : soluble

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Autoignition temperature : No data available

Decomposition temperature : No data available

Viscosity

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|                      |                     |
|----------------------|---------------------|
| Viscosity, dynamic   | : No data available |
| Viscosity, kinematic | : No data available |
| Explosive properties | : No data available |
| Oxidizing properties | : No data available |

### SECTION 10. STABILITY AND REACTIVITY

|                                    |                                                                                                                                                                                                                                      |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity                         | : No decomposition if stored and applied as directed.                                                                                                                                                                                |
| Chemical stability                 | : No decomposition if stored and applied as directed.                                                                                                                                                                                |
| Possibility of hazardous reactions | : Stable under recommended storage conditions.<br>Hazardous decomposition products formed under fire conditions.<br>Vapors may form explosive mixture with air.<br>Keep away from oxidizing agents, and acidic or alkaline products. |
| Conditions to avoid                | : Heat, flames and sparks.                                                                                                                                                                                                           |
| Incompatible materials             | : No data available                                                                                                                                                                                                                  |
| Hazardous decomposition products   | : No decomposition if stored and applied as directed.<br><br>No hazardous decomposition products are known.                                                                                                                          |

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Not classified due to lack of data.

#### Product:

|                           |                              |
|---------------------------|------------------------------|
| Acute oral toxicity       | : Remarks: No data available |
| Acute inhalation toxicity | : Remarks: No data available |
| Acute dermal toxicity     | : Remarks: No data available |

#### Components:

##### ethanol:

|                           |                                                |
|---------------------------|------------------------------------------------|
| Acute oral toxicity       | : LD50 Oral (Rat): 10,470 mg/kg                |
| Acute inhalation toxicity | : LC50 (Rat): 20000 ppm<br>Exposure time: 10 h |

#### Skin corrosion/irritation

Not classified due to lack of data.

#### Product:

|         |                      |
|---------|----------------------|
| Remarks | : May irritate skin. |
|---------|----------------------|

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### Serious eye damage/eye irritation

Causes serious eye irritation.

#### Product:

Remarks : May cause irreversible eye damage.

#### Components:

##### ethanol:

Result : Eye irritation

### Respiratory or skin sensitization

#### Skin sensitization

Not classified due to lack of data.

#### Respiratory sensitization

Not classified due to lack of data.

#### Product:

Remarks : No data available

### Germ cell mutagenicity

Not classified due to lack of data.

### Carcinogenicity

Not classified due to lack of data.

**IARC** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

### Reproductive toxicity

Not classified due to lack of data.

#### STOT-single exposure

Not classified due to lack of data.

#### STOT-repeated exposure

### Aspiration toxicity

Not classified due to lack of data.

### Further information

#### Product:

Remarks : Solvents may degrease the skin.

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### SECTION 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

##### Product:

Toxicity to fish : Remarks: No data available

Toxicity to algae/aquatic plants : Remarks: No data available

Toxicity to microorganisms : Remarks: No data available

#### Persistence and degradability

##### Components:

##### ethanol:

Biodegradability : Result: Readily biodegradable.

#### Bioaccumulative potential

##### Product:

Bioaccumulation : Remarks: No data available

#### Mobility in soil

No data available

#### Other adverse effects

##### Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82  
Protection of Stratospheric Ozone - CAA Section 602 Class I  
Substances  
Remarks: This product neither contains, nor was  
manufactured with a Class I or Class II ODS as defined by the  
U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A +  
B).

Additional ecological information : No data available

### SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

Waste from residues : Send to a licensed waste management company.  
Dispose of as hazardous waste in compliance with local and  
national regulations.

Contaminated packaging : Dispose of as unused product.  
Do not re-use empty containers.

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### SECTION 14. TRANSPORT INFORMATION

#### International Regulations

##### UNRTDG

UN number : UN 1170  
Proper shipping name : ETHANOL SOLUTION  
Class : 3  
Packing group : II  
Labels : 3  
Environmentally hazardous : no

##### IATA-DGR

UN/ID No. : UN 1170  
Proper shipping name : Ethanol solution  
Class : 3  
Packing group : II  
Labels : Flammable Liquids  
Packing instruction (cargo aircraft) : 364  
Packing instruction (passenger aircraft) : 353

##### IMDG-Code

UN number : UN 1170  
Proper shipping name : ETHANOL SOLUTION  
Class : 3  
Packing group : II  
Labels : 3  
EmS Code : F-E, S-D  
Marine pollutant : no

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

Not applicable for product as supplied.

#### Domestic regulation

##### 49 CFR

UN/ID/NA number : UN 1170  
Proper shipping name : Ethanol solutions  
Class : 3  
Packing group : II  
Labels : FLAMMABLE LIQUID  
ERG Code : 127  
Marine pollutant : no

#### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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### SECTION 15. REGULATORY INFORMATION

#### CERCLA Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

#### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : Flammable (gases, aerosols, liquids, or solids)  
Serious eye damage or eye irritation

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### California List of Hazardous Substances

ethanol 64-17-5

#### California Permissible Exposure Limits for Chemical Contaminants

ethanol 64-17-5

#### TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

### SECTION 16. OTHER INFORMATION

#### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
OSHA P0 : USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)  
OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants  
ACGIH / STEL : Short-term exposure limit  
OSHA P0 / TWA : 8-hour time weighted average  
OSHA Z-1 / TWA : 8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA -

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International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

SDS Number : 600000012079

Revision Date : 11/12/2025

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / EN

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Date of first issue: 02/07/2024

### SECTION 1. IDENTIFICATION

Product name : Buffer AE reconst.

#### Manufacturer or supplier's details

Company : QIAGEN GmbH  
QIAGEN Str. 1  
D-40724 Hilden

Telephone : +49-(0)2103-29-0

Responsible Department : QIAGEN Inc.  
19300 Germantown Road  
Germantown, MD 20874, USA  
Tel.: 800-426-8157  
<http://support.qiagen.com>

E-mail address : [cpc@qiagen.com](mailto:cpc@qiagen.com)  
Responsible/issuing person

Emergency telephone : CHEMTREC  
USA & Canada 1-800-424-9300  
CHEMTREC: 1-800-424-9300

#### Recommended use of the chemical and restrictions on use

Recommended use : Laboratory chemicals

Restrictions on use : This product is either (1) provided under the research & development exemption to the Toxic Substances Control Act (TSCA) and intended exclusively for research and development use (40 CFR 720.36), or (2) a material regulated under the Federal Food, Drugs, and Cosmetics Act (FFDCA). Refer to the specific product handbook or instructions for use to confirm the intended use of the product. If the product does not bear an "IVD" label, it is for research and development use only.

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a hazardous substance or mixture.

#### GHS label elements

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

#### Other hazards

None known.

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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

No hazardous ingredients

### SECTION 4. FIRST AID MEASURES

General advice : Show this material safety data sheet to the doctor in attendance.

If inhaled : Move to fresh air.  
If symptoms persist, call a physician.

In case of skin contact : Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.  
If symptoms persist, call a physician.

In case of eye contact : Remove contact lenses.  
Protect unharmed eye.  
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed : If accidentally swallowed obtain immediate medical attention.  
Rinse mouth with water.  
Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed : None known.

Notes to physician : No information available.

### SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards during fire fighting : Exposure to decomposition products may be a hazard to health.

Hazardous combustion products : No hazardous combustion products are known

Further information : In the event of fire and/or explosion do not breathe fumes.

Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

Environmental precautions : Do not allow uncontrolled discharge of product into the environment.

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Methods and materials for containment and cleaning up : Keep in suitable, closed containers for disposal.

### SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Advice on safe handling : For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.

Further information on storage stability : No decomposition if stored and applied as directed.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

#### Personal protective equipment

Hand protection

Remarks : The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.  
The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Eye protection : Safety glasses

Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
Footwear protecting against chemicals

Hygiene measures : Keep away from food and drink.  
When using do not eat, drink or smoke.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Color : colorless

Odor : No data available

Odor Threshold : No data available

pH : ca. 7

Melting point/ range : No data available

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|                                                  |                     |
|--------------------------------------------------|---------------------|
| Boiling point/boiling range                      | : 212 °F / 100 °C   |
| Flash point                                      | : No data available |
| Evaporation rate                                 | : No data available |
| Burning rate                                     | : No data available |
| Upper explosion limit / Upper flammability limit | : No data available |
| Lower explosion limit / Lower flammability limit | : No data available |
| Vapor pressure                                   | : No data available |
| Relative vapor density                           | : No data available |
| Relative density                                 | : No data available |
| Density                                          | : No data available |
| Solubility(ies)                                  |                     |
| Water solubility                                 | : soluble           |
| Solubility in other solvents                     | : No data available |
| Partition coefficient: n-octanol/water           | : No data available |
| Autoignition temperature                         | : No data available |
| Decomposition temperature                        | : No data available |
| Viscosity                                        |                     |
| Viscosity, dynamic                               | : No data available |
| Viscosity, kinematic                             | : No data available |
| Explosive properties                             | : No data available |
| Oxidizing properties                             | : No data available |

### SECTION 10. STABILITY AND REACTIVITY

|                                    |                                                                                                                  |
|------------------------------------|------------------------------------------------------------------------------------------------------------------|
| Reactivity                         | : No decomposition if stored and applied as directed.                                                            |
| Chemical stability                 | : No decomposition if stored and applied as directed.                                                            |
| Possibility of hazardous reactions | : Stable under recommended storage conditions.<br>Hazardous decomposition products formed under fire conditions. |
| Conditions to avoid                | : No data available                                                                                              |

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Incompatible materials : No data available  
Hazardous decomposition : No decomposition if stored and applied as directed.  
products  
No hazardous decomposition products are known.

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Not classified due to lack of data.

#### Product:

Acute oral toxicity : Remarks: No data available

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Remarks: No data available

#### Skin corrosion/irritation

Not classified due to lack of data.

#### Product:

Remarks : No data available

#### Serious eye damage/eye irritation

Not classified due to lack of data.

#### Product:

Remarks : No data available

#### Respiratory or skin sensitization

##### Skin sensitization

Not classified due to lack of data.

##### Respiratory sensitization

Not classified due to lack of data.

#### Product:

Remarks : No data available

#### Germ cell mutagenicity

Not classified due to lack of data.

#### Carcinogenicity

Not classified due to lack of data.

**IARC** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP** No ingredient of this product present at levels greater than or equal to 0.1% is

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identified as a known or anticipated carcinogen by NTP.

### Reproductive toxicity

Not classified due to lack of data.

### STOT-single exposure

Not classified due to lack of data.

### STOT-repeated exposure

### Aspiration toxicity

Not classified due to lack of data.

### Further information

#### Product:

Remarks : No data available

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Product:

Toxicity to fish : Remarks: No data available

Toxicity to algae/aquatic plants : Remarks: No data available

Toxicity to microorganisms : Remarks: No data available

### Persistence and degradability

No data available

### Bioaccumulative potential

#### Product:

Bioaccumulation : Remarks: No data available

### Mobility in soil

No data available

### Other adverse effects

#### Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82  
Protection of Stratospheric Ozone - CAA Section 602 Class I  
Substances  
Remarks: This product neither contains, nor was  
manufactured with a Class I or Class II ODS as defined by the  
U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A +  
B).

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Additional ecological information : No data available

### SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

Waste from residues : Dispose of contents/container in accordance with local regulation.  
Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

### SECTION 14. TRANSPORT INFORMATION

#### International Regulations

##### UNRTDG

Not regulated as a dangerous good

##### IATA-DGR

Not regulated as a dangerous good

##### IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

#### Domestic regulation

##### 49 CFR

Not regulated as a dangerous good

#### Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport regulations.

### SECTION 15. REGULATORY INFORMATION

#### CERCLA Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

#### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : No SARA Hazards

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



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Version  
2.0

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### TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

## SECTION 16. OTHER INFORMATION

### Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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