



# Twist Human RefSeq Panel

## Safety Data Sheet

According to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)  
Issue date: 6/2/2025 Version: 1.0

### SECTION 1 Identification

#### 1.1. Product identifier

Product form : Mixture  
Trade name : Twist Human RefSeq Panel  
Product code : 101043, 101044, 101045

#### 1.2. Other means of identification

No additional information available

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

Use of the substance/mixture : For nucleic-acid and nucleic-acid-derived applications

#### 1.4. Supplier's details

Twist Bioscience Corporation  
681 Gateway Blvd  
South San Francisco, California 94080  
T 1-800-719-0671  
[sds@twistbioscience.com](mailto:sds@twistbioscience.com)

#### 1.5. Emergency phone number

Emergency number : For Hazardous Materials or Dangerous Goods Incident Spill, Leak, Fire, Exposure, or Accident  
Call CHEMTREC Day or Night: 1-800-424-9300 (Toll Free, USA) / 703-527-3887 (Virginia, USA)  
CCN 827463  
Back-up Emergency Number: +1 703-741-5970 (Washington, DC)

### SECTION 2 Hazard Identification

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

##### GHS US classification

Not classified

#### 2.2. Label elements

##### GHS US labeling

No labeling applicable

#### 2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

#### 2.4. Hazards not otherwise classified

No additional information available

#### 2.5. Unknown acute toxicity

No additional information available

### SECTION 3 Composition/information on ingredients

#### 3.1. Substances

Not applicable

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### 3.2. Mixtures

This mixture does not contain any substances to be mentioned according to the criteria for section 3.2 of HCS

## SECTION 4 First aid measures

### 4.1. Description of necessary first-aid measures

|                                       |                                                                                                                                                                                                                                                                     |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| First-aid measures general            | : First aider: Pay attention to self-protection. Never give anything by mouth to an unconscious person. Induce artificial respiration with mask fitted with one-way valve or other suitable device but not mouth-to-mouth. If you feel unwell, seek medical advice. |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.                                                                                                                                                   |
| First-aid measures after skin contact | : Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.                                                                                                                                                               |
| First-aid measures after eye contact  | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.                                                                                    |
| First-aid measures after ingestion    | : Rinse mouth out with water. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Call a poison center/doctor/physician if you feel unwell.                                                             |

### 4.2. Most important symptoms/effects, acute and delayed

|                                     |                                                                                                                                                   |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms/effects after inhalation   | : Not expected to present a significant inhalation hazard under anticipated conditions of normal use.                                             |
| Symptoms/effects after skin contact | : Not expected to present a significant skin hazard under anticipated conditions of normal use.                                                   |
| Symptoms/effects after eye contact  | : Not expected to present a significant eye contact hazard under anticipated conditions of normal use.                                            |
| Symptoms/effects after ingestion    | : Not expected to present a significant ingestion hazard under anticipated conditions of normal use. May cause irritation to the digestive tract. |

### 4.3. Indication of immediate medical attention and special treatment needed, if necessary

|                                   |                          |
|-----------------------------------|--------------------------|
| Other medical advice or treatment | : Treat symptomatically. |
|-----------------------------------|--------------------------|

## SECTION 5: Fire-fighting measures

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

|                                |                                                                                                                      |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media   | : Water spray. Dry powder. Foam. Carbon dioxide. For large fires: use water in flooding quantities as spray and fog. |
| Unsuitable extinguishing media | : Do not use a heavy water stream.                                                                                   |

### 5.2. Specific hazards arising from the chemical

|                                                  |                                                                 |
|--------------------------------------------------|-----------------------------------------------------------------|
| Fire hazard                                      | : Not flammable.                                                |
| Explosion hazard                                 | : No direct explosion hazard.                                   |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. Carbon monoxide. Carbon dioxide. |

### 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. Use water spray or fog for cooling exposed containers. Use extinguishing media appropriate for surrounding fire. Prevent fire-fighting water from entering environment. |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.                                                                                                                                                                                      |

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According to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

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### SECTION 6 Accidental release measures

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

##### For non-emergency personnel

- Protective equipment : Wear recommended personal protective equipment.
- Emergency procedures : Evacuate the danger area. If outdoors, move to an area upwind of the danger area. If possible without taking personal risks, Remove ignition sources, ventilate area.

##### 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. Ventilate spillage area. Stop leak if safe to do so.
- Environmental precautions : Do not let the product reach soil, drains, sewers, or surface and ground water.

#### 6.2. Methods and materials for containment and cleaning up

- For containment : Contain with non-combustible inert absorbent.
- Methods for cleaning up : Take up in non-combustible inert absorbent and place into container for disposal. Contaminated absorbent material may pose the same hazard as the spilled product. Decontaminate surfaces and equipment with water and detergent. Until a sufficient level of dilution is achieved, the decontamination water may pose the same hazards as the product. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

For further information refer to section 8: "Exposure controls/personal protection", For further information refer to section 13

### SECTION 7 Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Wear personal protective equipment when handling bulk product. Avoid contact with eyes.

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

- Storage conditions : Store in a dry place. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Keep cool. Storage for large quantities(warehouse) should be well ventilated. Keep container closed when not in use.
- Incompatible products : Strong oxidizing agents. Strong bases. Strong acids.

### 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. Handle in accordance with good industrial hygiene and safety procedures. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
- Environmental exposure controls : Avoid release to the environment.

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According to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

### 8.3. Individual protection measures, such as personal protective equipment

#### Personal protective equipment:

Wear recommended personal protective equipment. Body protection should be chosen depending on activity and possible exposure.

|                                                                                                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------|
| <b>Hand protection:</b>                                                                                                                |
| Wear protective gloves. Nitrile rubber                                                                                                 |
| <b>Eye protection:</b>                                                                                                                 |
| Wear safety glasses which protect from splashes. Wear a face shield                                                                    |
| <b>Skin and body protection:</b>                                                                                                       |
| Protective clothing. Body protection should be chosen depending on activity and possible exposure                                      |
| <b>Respiratory protection:</b>                                                                                                         |
| No respiratory protection needed under normal use conditions. In case of insufficient ventilation, wear suitable respiratory equipment |

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



## SECTION 9 Physical and chemical properties

### 9.1. Basic physical and chemical properties

|                                                 |                     |
|-------------------------------------------------|---------------------|
| Physical state                                  | : Liquid            |
| Appearance                                      | : Liquid.           |
| Color                                           | : Colorless         |
| Odor                                            | : No data available |
| Odor threshold                                  | : No data available |
| pH                                              | : No data available |
| Melting point                                   | : No data available |
| Freezing point                                  | : No data available |
| Boiling point                                   | : No data available |
| Flash point                                     | : 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 |
| Solubility                                      | : No data available |
| 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 |
| Explosion limits                                | : No data available |
| Particle characteristics                        | : No data available |

### 9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

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According to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

### 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 of use.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

Incompatible materials.

#### 10.5. Incompatible materials

Strong acids, strong bases and strong oxidants.

#### 10.6. Hazardous decomposition products

Thermal decomposition generates: Carbon dioxide. Carbon monoxide.

### 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 |
| Skin corrosion/irritation         | : Not classified |
| Serious eye damage/irritation     | : Not classified |
| Respiratory or skin sensitization | : Not classified |
| Germ cell mutagenicity            | : Not classified |
| Carcinogenicity                   | : Not classified |
| Reproductive toxicity             | : Not classified |
| STOT-single exposure              | : Not classified |
| STOT-repeated exposure            | : Not classified |
| Aspiration hazard                 | : Not classified |

| Twist Human RefSeq Panel |                   |
|--------------------------|-------------------|
| Viscosity, kinematic     | No data available |

|                                     |                                                                                                                                                   |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms/effects after inhalation   | : Not expected to present a significant inhalation hazard under anticipated conditions of normal use.                                             |
| Symptoms/effects after skin contact | : Not expected to present a significant skin hazard under anticipated conditions of normal use.                                                   |
| Symptoms/effects after eye contact  | : Not expected to present a significant eye contact hazard under anticipated conditions of normal use.                                            |
| Symptoms/effects after ingestion    | : Not expected to present a significant ingestion hazard under anticipated conditions of normal use. May cause irritation to the digestive tract. |

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## Safety Data Sheet

According to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

### SECTION 12 Ecological information

#### 12.1. Ecotoxicity

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

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

#### 12.2. Persistence and degradability

| Twist Human RefSeq Panel      |                  |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |

#### 12.3. Bioaccumulative potential

| Twist Human RefSeq Panel  |                  |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

Ozone : Not classified

Fluorinated greenhouse gases : No

### SECTION 13 Disposal considerations

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.

### SECTION 14 Transport information

In accordance with DOT / IMDG / IATA

| DOT                                     | IMDG          | IATA          |
|-----------------------------------------|---------------|---------------|
| <b>14.1. UN number</b>                  |               |               |
| Not regulated                           | Not regulated | Not regulated |
| <b>14.2. Proper Shipping Name</b>       |               |               |
| Not regulated                           | Not regulated | Not regulated |
| <b>14.3. Transport hazard class(es)</b> |               |               |
| Not regulated                           | Not regulated | Not regulated |
| <b>14.4. Packing group</b>              |               |               |
| Not regulated                           | Not regulated | Not regulated |

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According to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

| DOT                                    | IMDG          | IATA |
|----------------------------------------|---------------|------|
| <b>14.5. Environmental hazards</b>     |               |      |
|                                        | Not regulated |      |
| No supplementary information available |               |      |

### 14.6. Transport in bulk

Not applicable

### 14.7. Special precautions for user

#### DOT

Not regulated

#### IMDG

Not regulated

#### IATA

Not regulated

## SECTION 15 Regulatory information

### 15.1. 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.

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

### 15.2. International regulations

#### CANADA

No additional information available

#### EU-Regulations

No additional information available

#### National regulations

No additional information available

### 15.3. State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

## SECTION 16 Other information

According to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

Issue date : 6/2/2025

| Abbreviations and acronyms |                                                                                                 |
|----------------------------|-------------------------------------------------------------------------------------------------|
| ADN                        | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |

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According to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

| Abbreviations and acronyms |                                                                                                   |
|----------------------------|---------------------------------------------------------------------------------------------------|
| ADR                        | European Agreement concerning the International Carriage of Dangerous Goods by Road               |
| CAS-No.                    | Chemical Abstract Service number                                                                  |
| CLP                        | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008                       |
| LC50                       | Median lethal concentration                                                                       |
| LD50                       | Median lethal dose                                                                                |
| NOEC                       | No-Observed Effect Concentration                                                                  |
| PBT                        | Persistent Bioaccumulative Toxic                                                                  |
| REACH                      | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| vPvB                       | Very Persistent and Very Bioaccumulative                                                          |
| AIHA                       | American International Health Alliance                                                            |
| ACGIH                      | American Conference of Government Industrial Hygienists                                           |
| DOT                        | Department of Transport                                                                           |
| DSL                        | Canada DSL (Domestic Substances List)                                                             |
| EC50                       | Median effective concentration                                                                    |
| IARC                       | International Agency for Research on Cancer                                                       |
| IATA                       | International Air Transport Association                                                           |
| IMDG                       | International Maritime Dangerous Goods                                                            |
| NDSL                       | Canada NDSL (Non-Domestic Substances List)                                                        |
| NIOSH                      | National Institute for Occupational Safety and Health                                             |
| SDS                        | Safety Data Sheet                                                                                 |

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.



# Hybridization Enhancer

## Safety Data Sheet

According to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)  
Issue date: 6/2/2025 Version: 1.0

### SECTION 1 Identification

#### 1.1. Product identifier

Product form : Substance  
Trade name : Hybridization Enhancer  
Product code : 101266, 100937, 100986

#### 1.2. Other means of identification

No additional information available

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

Use of the substance/mixture : For nucleic-acid and nucleic-acid-derived applications

#### 1.4. Supplier's details

Twist Bioscience Corporation  
681 Gateway Blvd  
South San Francisco, California 94080  
T 1-800-719-0671  
[sds@twistbioscience.com](mailto:sds@twistbioscience.com)

#### 1.5. Emergency phone number

Emergency number : For Hazardous Materials or Dangerous Goods Incident Spill, Leak, Fire, Exposure, or Accident  
Call CHEMTREC Day or Night: 1-800-424-9300 (Toll Free, USA) / 703-527-3887 (Virginia, USA)  
CCN 827463  
Back-up Emergency Number: +1 703-741-5970 (Washington, DC)

### SECTION 2 Hazard Identification

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

##### GHS US classification

Not classified

#### 2.2. Label elements

##### GHS US labeling

No labeling applicable

#### 2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

#### 2.4. Hazards not otherwise classified

No additional information available

#### 2.5. Unknown acute toxicity

No additional information available

# Hybridization Enhancer

## Safety Data Sheet

According to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

### SECTION 3 Composition/information on ingredients

#### 3.1. Substances

| Name                                         | Product identifier | %   |
|----------------------------------------------|--------------------|-----|
| Hybridization Enhancer<br>(Main constituent) | -                  | 100 |

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

#### 3.2. Mixtures

Not applicable

### SECTION 4 First aid measures

#### 4.1. Description of necessary first-aid measures

|                                       |                                                                                                                                                                                                                                                                     |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| First-aid measures general            | : First aider: Pay attention to self-protection. Never give anything by mouth to an unconscious person. Induce artificial respiration with mask fitted with one-way valve or other suitable device but not mouth-to-mouth. If you feel unwell, seek medical advice. |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.                                                                                                                                                   |
| First-aid measures after skin contact | : Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.                                                                                                                                                               |
| First-aid measures after eye contact  | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.                                                                                    |
| First-aid measures after ingestion    | : Rinse mouth out with water. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Call a poison center/doctor/physician if you feel unwell.                                                             |

#### 4.2. Most important symptoms/effects, acute and delayed

|                                     |                                                                                                                                                   |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms/effects after inhalation   | : Not expected to present a significant inhalation hazard under anticipated conditions of normal use.                                             |
| Symptoms/effects after skin contact | : Not expected to present a significant skin hazard under anticipated conditions of normal use.                                                   |
| Symptoms/effects after eye contact  | : Not expected to present a significant eye contact hazard under anticipated conditions of normal use.                                            |
| Symptoms/effects after ingestion    | : Not expected to present a significant ingestion hazard under anticipated conditions of normal use. May cause irritation to the digestive tract. |

#### 4.3. Indication of immediate medical attention and special treatment needed, if necessary

|                                   |                          |
|-----------------------------------|--------------------------|
| Other medical advice or treatment | : Treat symptomatically. |
|-----------------------------------|--------------------------|

### SECTION 5: Fire-fighting measures

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

|                                |                                                                                                                      |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media   | : Water spray. Dry powder. Foam. Carbon dioxide. For large fires: use water in flooding quantities as spray and fog. |
| Unsuitable extinguishing media | : Do not use a heavy water stream.                                                                                   |

#### 5.2. Specific hazards arising from the chemical

|                                                  |                                                                                               |
|--------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Fire hazard                                      | : Not flammable.                                                                              |
| Explosion hazard                                 | : No direct explosion hazard.                                                                 |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. Carbon monoxide. Carbon dioxide. Formaldehyde. Silicon oxides. |

# Hybridization Enhancer

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### 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. Use water spray or fog for cooling exposed containers. Use extinguishing media appropriate for surrounding fire. Prevent fire-fighting water from entering environment. |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.                                                                                                                                                                                      |

## SECTION 6 Accidental release measures

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

#### For non-emergency personnel

|                      |                                                                                                                                                                         |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protective equipment | : Wear recommended personal protective equipment.                                                                                                                       |
| Emergency procedures | : Evacuate the danger area. If outdoors, move to an area upwind of the danger area. If possible without taking personal risks, Remove ignition sources, ventilate area. |

#### 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. Ventilate spillage area. Stop leak if safe to do so.                                                                      |
| Environmental precautions | : Do not let the product reach soil, drains, sewers, or surface and ground water.                                                                           |

### 6.2. Methods and materials for containment and cleaning up

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| For containment         | : Contain with non-combustible inert absorbent.                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Methods for cleaning up | : Take up in non-combustible inert absorbent and place into container for disposal. Contaminated absorbent material may pose the same hazard as the spilled product. Decontaminate surfaces and equipment with water and detergent. Until a sufficient level of dilution is achieved, the decontamination water may pose the same hazards as the product. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations. |

For further information refer to section 8: "Exposure controls/personal protection", For further information refer to section 13

## SECTION 7 Handling and storage

### 7.1. Precautions for safe handling

|                               |                                                                                                                                                                                                                                        |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Precautions for safe handling | : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Wear personal protective equipment when handling bulk product. Avoid contact with eyes. |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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

|                       |                                                                                                                                                                                                                                              |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Storage conditions    | : Store in a dry place. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Keep cool. Storage for large quantities(warehouse) should be well ventilated. Keep container closed when not in use. |
| Incompatible products | : Strong oxidizing agents. Strong bases. Strong acids.                                                                                                                                                                                       |

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### 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. Handle in accordance with good industrial hygiene and safety procedures. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Environmental exposure controls : Avoid release to the environment.

#### 8.3. Individual protection measures, such as personal protective equipment

##### Personal protective equipment:

Wear recommended personal protective equipment. Body protection should be chosen depending on activity and possible exposure.

|                                                                                                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------|
| <b>Hand protection:</b>                                                                                                                |
| Wear protective gloves. Nitrile rubber                                                                                                 |
| <b>Eye protection:</b>                                                                                                                 |
| Wear safety glasses which protect from splashes. Wear a face shield                                                                    |
| <b>Skin and body protection:</b>                                                                                                       |
| Protective clothing. Body protection should be chosen depending on activity and possible exposure                                      |
| <b>Respiratory protection:</b>                                                                                                         |
| No respiratory protection needed under normal use conditions. In case of insufficient ventilation, wear suitable respiratory equipment |

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



### SECTION 9 Physical and chemical properties

#### 9.1. Basic physical and chemical properties

Physical state : Liquid

Appearance : Liquid.

Color : Colorless

Odor : Odorless

Odor threshold : No data available

pH : No data available

Melting point : No data available

Freezing point : No data available

Boiling point : > 95 °F / 35 °C

Flash point : > 214 °F / 101.1 °C

Flammability (solid, gas) : Not applicable.

Vapor pressure : No data available

Relative vapor density at 20°C : No data available

Relative density : 0.915

Solubility : No data available

Partition coefficient n-octanol/water (Log Pow) : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

# Hybridization Enhancer

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|                          |                     |
|--------------------------|---------------------|
| Viscosity, kinematic     | : 5 mm²/s           |
| Explosion limits         | : No data available |
| Particle characteristics | : No data available |

### 9.2. Data relevant with regard to physical hazard classes (supplemental)

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 of use.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Incompatible materials.

### 10.5. Incompatible materials

Strong acids, strong bases and strong oxidants.

### 10.6. Hazardous decomposition products

Thermal decomposition generates: Carbon dioxide. Carbon monoxide. Formaldehyde. Silicon oxides.

## 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 |
| Skin corrosion/irritation         | : Not classified |
| Serious eye damage/irritation     | : Not classified |
| Respiratory or skin sensitization | : Not classified |
| Germ cell mutagenicity            | : Not classified |
| Carcinogenicity                   | : Not classified |
| Reproductive toxicity             | : Not classified |
| STOT-single exposure              | : Not classified |
| STOT-repeated exposure            | : Not classified |
| Aspiration hazard                 | : Not classified |

| Hybridization Enhancer |         |
|------------------------|---------|
| Viscosity, kinematic   | 5 mm²/s |

|                                   |                                                                                                       |
|-----------------------------------|-------------------------------------------------------------------------------------------------------|
| Symptoms/effects after inhalation | : Not expected to present a significant inhalation hazard under anticipated conditions of normal use. |
|-----------------------------------|-------------------------------------------------------------------------------------------------------|

# Hybridization Enhancer

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According to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

|                                     |                                                                                                                                                   |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms/effects after skin contact | : Not expected to present a significant skin hazard under anticipated conditions of normal use.                                                   |
| Symptoms/effects after eye contact  | : Not expected to present a significant eye contact hazard under anticipated conditions of normal use.                                            |
| Symptoms/effects after ingestion    | : Not expected to present a significant ingestion hazard under anticipated conditions of normal use. May cause irritation to the digestive tract. |

## SECTION 12 Ecological information

### 12.1. Ecotoxicity

|                                                           |                                                                                                                        |
|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Ecology - general                                         | : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. |
| Hazardous to the aquatic environment, short-term (acute)  | : Not classified                                                                                                       |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified                                                                                                       |

### 12.2. Persistence and degradability

| Hybridization Enhancer        |                  |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |

### 12.3. Bioaccumulative potential

| Hybridization Enhancer    |                  |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

|                              |                  |
|------------------------------|------------------|
| Ozone                        | : Not classified |
| Fluorinated greenhouse gases | : No             |

## SECTION 13 Disposal considerations

|                                            |                                                                                               |
|--------------------------------------------|-----------------------------------------------------------------------------------------------|
| 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.                                    |

## SECTION 14 Transport information

In accordance with DOT / IMDG / IATA

| DOT                               | IMDG          | IATA          |
|-----------------------------------|---------------|---------------|
| <b>14.1. UN number</b>            |               |               |
| Not regulated for transport       |               |               |
| <b>14.2. Proper Shipping Name</b> |               |               |
| Not regulated                     | Not regulated | Not regulated |

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| DOT                                     | IMDG          | IATA          |
|-----------------------------------------|---------------|---------------|
| <b>14.3. Transport hazard class(es)</b> |               |               |
| Not regulated                           | Not regulated | Not regulated |
| <b>14.4. Packing group</b>              |               |               |
| Not regulated                           | Not regulated | Not regulated |
| <b>14.5. Environmental hazards</b>      |               |               |
|                                         | Not regulated |               |
| No supplementary information available  |               |               |

### 14.6. Transport in bulk

Not applicable

### 14.7. Special precautions for user

#### DOT

Not regulated

#### IMDG

Not regulated

#### IATA

Not regulated

## SECTION 15 Regulatory information

### 15.1. 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.

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

### 15.2. International regulations

#### CANADA

No additional information available

#### EU-Regulations

No additional information available

#### National regulations

No additional information available

### 15.3. State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

# Hybridization Enhancer

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### SECTION 16 Other information

According to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

Issue date : 6/2/2025

| Abbreviations and acronyms |                                                                                                   |
|----------------------------|---------------------------------------------------------------------------------------------------|
| ADN                        | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways   |
| ADR                        | European Agreement concerning the International Carriage of Dangerous Goods by Road               |
| CAS-No.                    | Chemical Abstract Service number                                                                  |
| CLP                        | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008                       |
| LC50                       | Median lethal concentration                                                                       |
| LD50                       | Median lethal dose                                                                                |
| NOEC                       | No-Observed Effect Concentration                                                                  |
| PBT                        | Persistent Bioaccumulative Toxic                                                                  |
| REACH                      | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| vPvB                       | Very Persistent and Very Bioaccumulative                                                          |
| AIHA                       | American International Health Alliance                                                            |
| ACGIH                      | American Conference of Government Industrial Hygienists                                           |
| DOT                        | Department of Transport                                                                           |
| DSL                        | Canada DSL (Domestic Substances List)                                                             |
| EC50                       | Median effective concentration                                                                    |
| IARC                       | International Agency for Research on Cancer                                                       |
| IATA                       | International Air Transport Association                                                           |
| IMDG                       | International Maritime Dangerous Goods                                                            |
| NDSL                       | Canada NDSL (Non-Domestic Substances List)                                                        |
| NIOSH                      | National Institute for Occupational Safety and Health                                             |
| SDS                        | Safety Data Sheet                                                                                 |

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.