

This packet contains the following Material Safety Data Sheets for Ovation SoLo RNA-Seq System-Human products.

<b>Part Number</b>	<b>Components</b>
0500-32	0407-32 Ovation SoLo RNA-Seq System S02218 SoLo AnyDeplete Probe Mix - Human
0500-96	04707-32 Ovation SoLo RNA-Seq System S02510 SoLo AnyDeplete Probe Mix - Human

These kits have three associated Safety Data Sheets, which correspond to the kit components which contain hazardous or carcinogenic ingredients in excess of threshold amounts.

<b>Name</b>	<b>Vial Label 0500-32</b>	<b>Vial Label 0500-96</b>	<b>SDS Number</b>
Lysis Buffer VER 2	S02194	S02537	F01439MSDS
DP3 VER 2 cDNA Processing Reagent I	S02202	S02545	R01544MSDS
DP4 VER 2 cDNA Processing Reagent II	S02203	S02546	F01445MSDS

**1. Product and Supplier Identification****Product Identification**

Product Name: Lysis Buffer VER 2  
Part Number: S02194, S02537  
Product Uses: Laboratory reagent  
Uses Advised Against: n/a

**Supplier Identification**

Tecan Genomics  
900 Chesapeake Drive  
Redwood City, CA 94063  
650-590-3600

**Emergency Phone Number**

800-255-3924 (CHEMTEL US)  
813-248-0585 (CHEMTEL INTERNATIONAL)

**2. Hazards Identification****Classification of the substance or mixture****GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

Skin corrosion/irritation (Category 2) H315  
Serious eye irritation (Category 2) H319

**GHS Label elements, including precautionary statements****Pictograms**

**Signal word** Warning

**Hazard statement(s)**

H315 Causes skin irritation  
H319 Causes serious eye irritation

**Precautionary statement(s)**

Prevention	Wear protective gloves. Wear eye or face protection. Wash hands thoroughly after handling.
Response	IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation occurs, get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists, get medical attention.
Storage	Not applicable.
Disposal	Not applicable.

**Hazards not otherwise classified**

None known.

**3. Composition/Information on Ingredients****Hazardous Components**

Component	CAS#	EC #	Mol Wt	Classification	%
Nonidet P-40 Substitute	9016-45-9	500-024-6	680 g/mol	see above	2-5

**4. First Aid Measures****If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Get medical attention.

**In case of skin contact**

Flush contaminated skin with plenty of water. Take off contaminated clothing and shoes immediately. Get medical attention.

**In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes occasionally lifting upper and lower eyelids and get medical attention.

**If swallowed**

Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Never give anything by mouth to an unconscious person. Get medical attention. Do not induce vomiting unless directed by a medical professional.

**Potential Acute Health Effects**

Eye contact	Causes serious eye irritation.
Inhalation	No known significant effects or critical hazards
Skin contact	Causes skin irritation

Ingestion Irritating to mouth, throat and stomach

## 5. Fire Fighting Measures

### Suitable extinguishing media

Use an extinguishing agent suitable for the surrounding fire.

### Special hazards arising from the substance or mixture

none known

### Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

## 6. Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Ensure adequate ventilation. Evacuate personnel to safe areas.

### Environmental precautions

Prevent further leakage or spillage if safe to do so. Avoid discharge into the environment.

### Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

## 7. Handling and Storage

### Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.

### Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

## 8. Exposure Controls / Personal Protection

### Control Parameters

**Components with workplace control parameters:** No exposure limit values known.

### Exposure Controls

#### Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

#### Personal protective equipment

Eye protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

#### Skin protection

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

#### Respiratory protection

Use a properly fitted, air-purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

#### **Control of environmental exposure**

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## **9. Physical and Chemical Properties**

<b>Appearance:</b>	clear or slightly hazy liquid
<b>Odor:</b>	odorless
<b>Odor Threshold:</b>	no data available
<b>pH:</b>	no data available
<b>Solubility:</b>	no data available
<b>Melting Point:</b>	no data available
<b>Freezing Point:</b>	no data available
<b>Boiling Point:</b>	no data available
<b>Flash Point:</b>	(product does not sustain combustion)
<b>Evaporation Rate:</b>	no data available
<b>Flammability (solid, gas):</b>	no data available
<b>Upper Explosion Limit:</b>	no data available
<b>Lower Explosion Limit:</b>	no data available
<b>Vapor Pressure:</b>	no data available
<b>Vapor Density:</b>	no data available
<b>Relative Density:</b>	no data available
<b>Solubility:</b>	easily soluble in cold and hot water
<b>Partition Coefficient:</b>	no data available
<b>Auto-ignition temperature:</b>	no data available
<b>Decomposition temperature:</b>	no data available
<b>Viscosity:</b>	no data available

## **10. Stability and Reactivity**

#### **Chemical stability**

The product is stable.

#### **Possibility of hazardous reactions**

Under normal conditions of storage and use, hazardous reactions will not occur.

#### **Conditions to avoid**

No specific data.

**Materials to avoid**

No specific data

**Hazardous decomposition products**

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

**11. Toxicological Information****Acute toxicity**

Inhalation: No known significant effects or critical hazards.

Ingestion: Irritating to mouth, throat, and stomach.

Skin: Causes skin irritation.

Eyes: Causes serious eye irritation.

Ingredient	Species	Dose	Result
Nonidet P-40 Substitute	Rat	1310 mg/kg	LD50 Oral

**Carcinogenicity**

No data available.

**Reproductive toxicity**

No data available.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**12. Ecological Information****Toxicity****Product Component:** Nonidet P-40 Substitute

Result	Species	Exposure
Acute LC50 10800 ug/l marine water	Crustaceans – Pandalus montagui	48 hours
Acute LC50 8600 to 9800 ug/l fresh water	Daphnia magna	48 hours
Acute LC50 7200 ug/l fresh water	Fish – Oncorhynchus mykiss	96 hours

**Other adverse effects:** No known significant effects or critical hazards.**13. Disposal Considerations****Waste Disposal Method:**

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way.

Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**Container Handling and Disposal:**

Dispose of container and unused contents in accordance with federal, state, and/or local regulations.

**14. Transportation Information**

DOT/IATA: Not regulated.

**15. Regulatory Information****United States****SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 311/312 Hazards**

Immediate (Acute) Health Hazard

**Massachusetts Right To Know Components**

No components listed

**Pennsylvania Right To Know Components**

No components listed

**New Jersey Right To Know Components**

Alkyl phenol, nos

**California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**International regulations**

Australia inventory (AICS): All components are listed or exempted.

China inventory (IECSC): All components are listed or exempted.

Japan inventory: All components are listed or exempted.

Korea inventory: All components are listed or exempted.

New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.

Philippines inventory (PICCS): All components are listed or exempted.

**16. Other Information****NFPA Rating**

Health Hazard: 1

Fire Hazard: 0



## Safety Data Sheet Lysis Buffer VER 2

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Reactivity Hazard      0

The information contained herein is based on the data available to us and is believed to be correct. However Tecan Genomics makes no warranty, expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof.



## 1. Product and Supplier Identification

### Product Identification

Product Name: DP4 VER 2 cDNA Processing Reagent II

Part Number: S02203, S02546, S02598

Product Uses: Laboratory reagent

Uses Advised Against: n/a

### Supplier Identification

Tecan Genomic  
900 Chesapeake Drive  
Redwood City, CA 94063  
650-590-3600

### Emergency Phone Number

800-255-3924 (CHEMTEL US)

813-248-0585 (CHEMTEL INTERNATIONAL)

## 2. Hazards Identification

### Classification of the substance or mixture

#### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin corrosion (Category 1A), H314

Serious eye damage (Category 1), H318

### GHS Label elements, including precautionary statements

#### Pictograms



**Signal word**    Danger

#### Hazard statement(s)

H314

Causes severe skin burns and eye damage.

H318

Causes serious eye damage.

**Precautionary statement(s)**

P264	Wash skin thoroughly after handling.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection
P301 + P330 + P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting
P303 + P361 + P353	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P310	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

**Hazards not otherwise classified** none

**3. Composition/Information on Ingredients**
**Hazardous Components**

Component	CAS#	EC #	Mol Wt	Classification	%
Acetic Acid	64-19-7	200-580-7	60.05 g/mol	Flam Liq 3; Skin Corr 1A; Eye Dam 1; H226, H314, H318	2-3

**4. First Aid Measures**
**General advice**

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

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact**

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

**If swallowed**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in section 2 and/or in section 11

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**Indication of any immediate medical attention and special treatment needed**

No data available

**5. Fire Fighting Measures**

**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special hazards arising from the substance or mixture**

Carbon oxides

**Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**Further information**

No data available.

**6. Accidental Release Measures**

**Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

For personal protection see section 8.

**Environmental precautions**

Do not let product enter drains.

**Methods and materials for containment and cleaning up**

Soak up with inert absorbent material and dispose of as hazardous waste.

**Reference to other sections**

For disposal see section 13.

**7. Handling and Storage**

**Precautions for safe handling**

Avoid inhalation of vapor or mist.

For further precautions see section 2

**Conditions for safe storage, including any incompatibilities**

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

**8. Exposure Controls / Personal Protection**

**Control Parameters**

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**Components with workplace control parameters:** Acetic Acid CAS 64-19-7

**ACGIH TLV (United States, 1/2008).**

TWA: 10 ppm

TWA: 25 mg/m<sup>3</sup>

STEL: 15 ppm

**Consult local authorities for acceptable exposure limits.**

**Remarks: Eye & upper respiratory tract irritation, pulmonary function**

## Exposure Controls

### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### Personal protective equipment

#### Eye/face protection

Tightly fitting safety goggles. Face shield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Full contact

Material: butyl-rubber

Minimum layer thickness: 0.3 mm

Break through time: 480 min

Material tested: Butoject® (KCL 897 / Aldrich Z677647, Size M)

#### Splash contact

Material: Nature latex/chloroprene

Minimum layer thickness: 0.6 mm

Break through time: 30 min

Material tested: Lapren® (KCL 706 / Aldrich Z677558, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

### Body Protection

Complete suit protecting against chemical. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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**Control of environmental exposure**

Do not let product enter drains.

**9. Physical and Chemical Properties**

<b>Appearance:</b>	clear liquid
<b>Odor:</b>	no data available
<b>Odor Threshold:</b>	no data available
<b>pH:</b>	no data available
<b>Solubility:</b>	no data available
<b>Melting Point:</b>	no data available
<b>Freezing Point</b>	no data available
<b>Boiling Point:</b>	no data available
<b>Flash Point:</b>	no data available
<b>Evaporation Rate:</b>	no data available
<b>Flammability (solid, gas):</b>	no data available
<b>Upper Explosion Limit:</b>	no data available
<b>Lower Explosion Limit:</b>	no data available
<b>Vapor Pressure:</b>	no data available
<b>Vapor Density:</b>	no data available
<b>Relative Density:</b>	no data available
<b>Partition Coefficient:</b>	no data available
<b>Auto-ignition temperature:</b>	no data available
<b>Decomposition temperature:</b>	no data available
<b>Viscosity:</b>	no data available

**10. Stability and Reactivity**

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

No data available.

**Conditions to avoid**

No data available.

**Incompatible materials**

Oxidizing agents, metals, amines, alcohols, peroxides, permanganates, e.g. potassium permanganate, soluble carbonates and phosphates, hydroxides

**Hazardous decomposition products**

No data available.

**11. Toxicological Information**

**Acute toxicity**

No data available

Inhalation: No data available

Dermal: No data available

### **Irritation/Corrosion**

No data available

### **Carcinogenicity**

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

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

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

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

### **Mutagenicity**

No data available.

### **Teratogenicity**

No data available.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## **12. Ecological Information**

**Product Component:** Acetic Acid

**Toxicity** No data available

**Persistence and degradability** No data available

**Bioaccumulative potential** No data available

**Mobility in soil** No data available

**Results of PBT and vPvB assessment** PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**Other adverse effects** No data available

### 13. Disposal Considerations

**Waste Disposal Method:**

Discard any product, residue, disposable container or liner in full compliance with federal, state, and/or local regulations. Generation of waste should be avoided or minimized wherever possible.

**Container Handling and Disposal:**

Dispose of container and unused contents in accordance with federal, state, and/or local regulations.

Refer to Section 8 for appropriate exposure control measures/ personal protection.

### 14. Transportation Information

**DOT** Not dangerous goods

**IMDG** Not dangerous goods

**IATA** Not dangerous goods

### 15. Regulatory Information

#### United States

**SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

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.

**SARA 311/312 Hazards**

Acute Health Hazard, Chronic Health Hazard

**Massachusetts Right To Know Components**

Acetic acid  
CAS-No.  
64-19-7  
Revision Date  
1993-04-24

**Pennsylvania Right To Know Components**

Acetic acid  
CAS-No.  
64-19-7  
Revision Date  
1993-04-24

**New Jersey Right To Know Components**

Acetic acid  
CAS-No.  
64-19-7



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Revision Date  
1993-04-24

**California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.



## 16. Other Information

### **NFPA Rating**

Health: 3

Fire: 0

Reactivity: 0

The information contained herein is based on the data available to us and is believed to be correct. However Tecan Genomics makes no warranty, expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof.

## 1. Product and Supplier Identification

### Product Identification

Product Name: DP3 cDNA Processing Reagent I, DP3 VER 2 cDNA Processing Reagent I  
 Part Number: S01886, S02202, S02545, S02597  
 Product Uses: Laboratory chemical  
 Uses Advised Against: n/a

### Supplier Identification

Tecan Genomics  
 900 Chesapeake Drive  
 Redwood City, CA 94063  
 650-590-3600

### Emergency Phone Number

800-255-3924 (CHEMTEL US)  
 813-248-0585 (CHEMTEL INTERNATIONAL)

## 2. Hazards Identification

### Classification of the substance or mixture

#### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin corrosion (Category 1A), H314  
 Serious eye damage (Category 1), H318

### GHS Label elements, including precautionary statements

#### Pictograms



**Signal word**     Danger

#### Hazard statement(s)

H314                             Causes severe skin burns and eye damage.

#### Precautionary statement(s)

P264                             Wash skin thoroughly after handling.  
 P280                             Wear protective gloves/ protective clothing/ eye protection/ face protection  
 P301 + P330 + P331         IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353	IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/ physician
P321	Specific treatment (see supplemental first aid instructions on this label).
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

**Hazards not otherwise classified**

none

**3. Composition/Information on Ingredients**

**Hazardous Components**

Component	CAS#	EC #	Mol Wt	Classification	%
Sodium hydroxide  Index-No: 011-002-00-6 Registration 01- 2119457892-27-XXXX	1310-73-2	215-185-5	40.00 g/mol	Met. Corr. 1; Skin Corr. 1A; Eye Dam. 1; Aquatic Acute 3; H290, H314, H318, H402	<5%

**4. First Aid Measures**

**General advice**

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

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact**

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

**If swallowed**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in section 2 and/or in section 11

**Indication of any immediate medical attention and special treatment needed**

no data available

## **5. Fire Fighting Measures**

**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special hazards arising from the substance or mixture**

Sodium oxides

**Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**Further information**

No data available.

## **6. Accidental Release Measures**

**Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

For personal protection see section 8.

**Environmental precautions**

Do not let product enter drains.

**Methods and materials for containment and cleaning up**

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

**Reference to other sections**

For disposal see section 13.

## **7. Handling and Storage**

**Precautions for safe handling**

Avoid inhalation of vapor or mist.

For further precautions see section 2

**Conditions for safe storage, including any incompatibilities**

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

## 8. Exposure Controls / Personal Protection

### Control Parameters

**Components with workplace control parameters:** Sodium hydroxide CAS# 1310-73-2

VALUE	CONTROL PARAMETERS	BASIS
C	2 mg/m <sup>3</sup>	USA. ACGIH Threshold Limit Values (TLV)
	Remarks:	Upper Respiratory Tract irritation Eye irritation Skin irritation
C	2 mg/m <sup>3</sup>	USA. NIOSH Recommended Exposure Limits
C	2 mg/m <sup>3</sup>	USA. OSHA Table Z-1 Limits for Air Contaminants 1910.1000
TWA	2 mg/m <sup>3</sup>	USA. Occupational Exposure Limits (OSHA) Table Z-1 Limits for Air Contaminants

### Exposure Controls

#### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Personal protective equipment

##### Eye/face protection

Tightly fitting safety goggles. Face shield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

##### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Body Protection

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Control of environmental exposure

Do not let product enter drains.

## 9. Physical and Chemical Properties

<b>Appearance:</b>	Form: liquid
<b>Odor:</b>	no data available
<b>Odor Threshold:</b>	no data available
<b>pH:</b>	no data available
<b>Solubility:</b>	no data available
<b>Melting Point:</b>	no data available
<b>Freezing Point</b>	no data available
<b>Boiling Point:</b>	no data available
<b>Flash Point:</b>	no data available
<b>Evaporation Rate:</b>	no data available
<b>Flammability (solid, gas):</b>	no data available
<b>Upper Explosion Limit:</b>	no data available
<b>Lower Explosion Limit:</b>	no data available
<b>Vapor Pressure:</b>	no data available
<b>Vapor Density:</b>	no data available
<b>Relative Density:</b>	no data available
<b>Partition Coefficient:</b>	no data available
<b>Auto-ignition temperature:</b>	no data available
<b>Decomposition temperature:</b>	no data available
<b>Viscosity:</b>	no data available

## 10. Stability and Reactivity

### Reactivity

no data available

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

no data available

### Conditions to avoid

no data available

### Incompatible Materials

Acids, Organic materials, Chlorinated solvents, Aluminum, Phosphorus, Tin/tin oxides, Zinc

### Hazardous decomposition products

Other decomposition products - no data available

In the event of fire: see section 5

## 11. Toxicological Information

### Acute toxicity

no data available

Inhalation: no data available

### Skin corrosion/irritation

no data available

### Serious eye damage/eye irritation

no data available

### Respiratory or skin sensitisation

no data available

**Germ cell mutagenicity**

no data available

**Carcinogenicity**

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

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

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

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity**

no data available

no data available

**Specific target organ toxicity - single exposure**

no data available

**Specific target organ toxicity - repeated exposure**

no data available

**Aspiration hazard**

no data available

**Additional Information**

RTECS: Not available

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Inhalation of vapors may cause: spasm, inflammation and edema of the larynx. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting.

**12. Ecological Information**

**Toxicity**

no data available

**Persistence and degradability**

no data available

**Bioaccumulative potential**

no data available

**Mobility in soil**

no data available

**Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**Other adverse effects**

no data available

### 13. Disposal Considerations

**Waste treatment methods**

**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Contaminated packaging**

Dispose of as unused product.

### 14. Transportation Information

**DOT (US)**

UN number: 1824      Class: 8      Packing group: II  
Proper shipping name: Sodium hydroxide solution  
Poison Inhalation Hazard: No

**IMDG**

UN number: 1824      Class: 8      Packing group: II      EMS-No: F-A, S-B  
Proper shipping name: SODIUM HYDROXIDE SOLUTION  
Marine pollutant: No

**IATA**

UN number: 1824      Class: 8      Packing group: II  
Proper shipping name: Sodium hydroxide solution

### 15. Regulatory Information

**SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

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.

**Massachusetts Right To Know Components**

Sodium hydroxide      CAS-No. 1310-73-2      Revision Date 2007-03-01

**Pennsylvania Right To Know Components**

Water      CAS-No. 7732-18-5  
Sodium hydroxide      CAS-No. 1310-73-2      Revision Date 2007-03-01



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**New Jersey Right To Know Components**

Water CAS-No. 7732-18-5

Sodium hydroxide CAS-No. 1310-73-2 Revision Date 2007-03-01

**California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**16. Other Information**

**NFPA Rating**

Health hazard: 3

Fire Hazard: 0

Reactivity Hazard: 0

The information contained herein is based on the data available to us and is believed to be correct. However Tecan Genomics makes no warranty, expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof.