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

1.1 Product identifiers

Product name : 4BB™ qPCR CovCheck™ Genome Coverage WGA QC SinglePlex Kit

Product Number : CVC1004
Brand : 4basebio
REACH No. : A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

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

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : 4basebio SLU. Faraday 7,
Cantoblanco, 28049,
Madrid, SPAIN.
www.4basebio.com.
info@4basebio.com.

Telephone : +34 91 192 36 50

E-mail address : info@4basebio.com

1.4 Emergency telephone number

Emergency Phone # : +34 91 192 36 50

## SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Not a hazardous substance or mixture.

2.2 Label elements
Not a hazardous substance or mixture.

2.3 Other hazards
None known.

## SECTION 3: Composition/information on ingredients

3.1 Substance / Mixture : Mixture

3.2 Substance name : 2x 4BB™ qPCR CovCheck™ Genome Coverage WGA QC SinglePlex Master Mix

3.3 **Hazardous ingredients:**

| Chemical name | CAS-No. | Concentration (% w/w) |
|---|---|---|
| DMSO | 67-68-5 | >=1 - <10 |
| Sucrose | 57-50-1 | >=1 - <10 |
| Glycerol | 56-81-5 | >=1 - <10 |

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice
Consult a physician. Show this 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.

### 4.2 Most important symptoms and effects, both acute and delayed.
No information available.

### 4.3 Notes to physician
No information available.

## SECTION 5: Firefighting measures

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

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

### 5.3 Hazardous combustion products
Carbon oxides
Sulfur oxides
Nitrogen oxides (NOx)

### 5.4 Specific extinguishing methods
In the event of fire and/or explosion do not breathe fumes.

### 5.5 Special protective equipment for fire-fighters
Wear self-contained breathing apparatus for firefighting if necessary

## SECTION 6: Accidental release measures

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

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

## SECTION 7: Handling and storage

7.1 Advice on protection against fire and explosion
Normal measures for preventive protection

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

## SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with workplace control parameters

| Component | CAS-No. | Value | Control parameter | Basis |
|---|---|---|---|---|
| DMSO | 67-68-5 | TWA | 250ppm | US WEEL |
| sucrose | 57-50-1 | TWA | 10 mg/m3 | ACGIH |
| | | TWA (respirable) | 5 mg/m3 | NIOSH REL |
| | | TWA( total dust) | 15 mg/m3 | OSHA Z-1 |
| | | TWA(respirable fraction) | 5 mg/m3 | OSHA Z-1 |
| glycerol | 56-81-5 | TWA(mist, respirable fraction) | 5 mg/m3 | OSHA Z-1 |
| | | TWA( mist, total dust) | 15 mg/m3 | OSHA Z-1 |
| | | TWA( Total) | 10 mg/m3 | OSHA P0 |
| | | TWA(respirable fraction) | 5 mg/m3 | OSHA P0 |
| | | TWA | 10 mg/m3 | ACGIH |
| | | TWA( mist, total dust) | 10 mg/m3 | OSHA P0 |
| | | TWA(mist, respirable fraction) | 5 mg/m3 | OSHA P0 |

8.2 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
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 .

Hand Protection
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).

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

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|---|---|
| a) Appearance | : liquid |
| b) Color | : No data available |
| c) Odor | : No data available |
| d) Odor Threshold | : No data available |
| e) pH | : No data available |
| f) Melting point/range | : No data available |
| g) Boiling point/range | : No data available |
| h) Flash point | : No data available |
| i) Evaporation rate | : No data available |
| j) Burning rate | : No data available |
| k) Upper explosion limit | : No data available |
| l) Lower explosion limit | : No data available |
| m) Vapor pressure | : No data available |
| n) Relative vapor density | : No data available |

o) Relative density : No data available

p) Density : No data available

q) Water solubility : No data available

r) Partition coefficient: n-octano/water: : No data available

s) Autoignition temperature : No data available

t) Decomposition temperature : No data available

u) Viscosity : No data available

v) Explosive properties : No data available

w) Oxidizing properties : No data available

9.2 Other safety information
No data available

## SECTION 10: Stability and reactivity

10.1 Reactivity
No decomposition if stored and applied as directed.

10.2 Chemical stability
No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions
Stable under recommended storage conditions. Hazardous decomposition products formed under fire conditions.

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
No data available

10.6 Hazardous decomposition products
No decomposition if stored and applied as directed.

## SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
Not classified based on available information.

**Product:**
Acute oral toxicity : No data available

Acute toxicity estimate: > 5,000 mg/kg

Method: Calculation method

| | |
|---|---|
| Acute inhalation toxicity | : No data available |
| Acute dermal toxicity | : No data available |
| | Acute toxicity estimate: > 5,000 mg/kg |
| | Method: Calculation method |

**Ingredients:**

**DMSO:**

| | |
|---|---|
| Acute oral toxicity | : LD50 Oral (Rat): 14,500 mg/kg |
| Acute inhalation toxicity | : LC50 (Rat): 40,250 mg/l, 40250 ppm |
| | Exposure time: 4 h |
| Acute dermal toxicity | : LD50 Dermal (Rabbit): 10,000 mg/kg |

**sucrose :**

| | |
|---|---|
| Acute oral toxicity | : LD50 Oral (Rat): 29,700 mg/kg |

**glycerol :**

| | |
|---|---|
| Acute oral toxicity | : LD50 Oral (Rat): 12,000 mg/kg |
| Acute dermal toxicity | : LD50 Dermal (Rabbit): 10,000 mg/kg |

**Skin corrosion/irritation**

Not classified based on available information

**Product:**

Remarks: the product can be absorbed through the skin.

**Ingredients:**

**glycerol :**

Species: Rabbit

Exposure time: 24h

Result: mild skin irritation

**Serious eye damage/eye irritation**

Not classified based on available information.

**Product:**

Remarks: May irritate eyes.

**Ingredients:**

**glycerol:**

Species: Rabbit

Result: Mild eye irritation

Exposure time: 24 h

**Respiratory or skin sensitization**

Skin sensitization: Not classified based on available information. Respiratory sensitization: Not classified based on available information.

**Germ cell mutagenicity**

Not classified based on available information.

**Carcinogenicity**

Not classified based on available information.

**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 ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**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 based on available information.

**STOT-single exposure**

Not classified based on available information.

**STOT-repeated exposure**

Not classified based on available information.

**Aspiration toxicity**

Not classified based on available information.

**Further information**

No data available

## SECTION 12: Ecological information

### 12.1 Toxicity

**Ecotoxicity**

**Product:**

| | |
|---|---|
| Toxicity to fish | : No data available |
| Toxicity to algae | : No data available |
| Toxicity to bacteria | : No data available |

**Ingredients:**

**DMSO:**

| | |
|---|---|
| Toxicity to fish | :LC50 (Pimephales promelas (fathead minnow)): 34,000 mg/l Exposure time: 96 h<br><br>LC50 (Oncorhynchus mykiss (rainbow trout)): 35,000 mg/l Exposure time: 96 h |
| Toxicity to daphnia and other aquatic invertebrates | : EC50 (Daphnia pulex (Water flea)): 27,000 mg/l |

**sucrose :**

| | |
|---|---|
| Toxicity to fish | : No data available |
| Toxicity to daphnia and other aquatic invertebrates | : No data available |

**glycerol :**

| | |
|---|---|
| Toxicity to fish | : LC0 (Leuciscus idus (Golden orfe)): > 250 mg/l Exposure time: 48 h |

### 12.2 Persistence and degradability
No data available

### 12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 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

13.1 Waste treatment methods

Disposal methods

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

## SECTION 14: Transport information

**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**

No data available

**Domestic regulation**

**49 CFR**

Not regulated as a dangerous good

## SECTION 15: Regulatory information

**EPCRA - Emergency Planning and Community Right-to-Know**

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

| Ingredients | CAS-No. | Component RQ (lbs) |
|---|---|---|
| DMSO | 26628-22-8 | 1000 |

Version 1.0

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

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

**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.

**US State Regulations**

**California Prop. 65** This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

**TSCA list**

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

The following substance(s) is/are subject to a Significant New Use Rule:

ethoxylated nonylphenol 9016-45-9

## SECTION 16: Other information

**Full text of other abbreviations**

(Q)SAR - (Quantitative) Structure Activity Relationship; ASTM - American Society for the Testing of Materials; bw - Body weight; DIN - Standard of the German Institute for Standardisation; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized 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; IMDG - International Maritime Dangerous Goods; IMO - International Maritime

Organization; ISO - International Organisation for Standardization; 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; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative; DSL - Domestic Substances List (Canada); KECI - Korea Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); AICS - Australian Inventory of Chemical Substances; IECSC - Inventory of Existing Chemical Substances in China; ENCS - Existing and New Chemical Substances (Japan); ISHL - Industrial Safety and Health Law (Japan); PICCS - Philippines Inventory of Chemicals and Chemical Substances; NZIoC - New Zealand Inventory of Chemicals; TCSI - Taiwan Chemical Substance Inventory; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; DOT - Department of Transportation; EHS - Extremely Hazardous Substance; HMIS - Hazardous Materials Identification System; MSHA - Mine Safety and Health Administration; NFPA - National Fire Protection Association; RCRA - Resource Conservation and Recovery Act; RQ - Reportable Quantity; SARA - Superfund Amendments and Reauthorization Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; GLP - Good Laboratory Practice; ERG - Emergency Response Guide; NTP - National Toxicology Program; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods

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The information provided in this Material 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.