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**Section 1: Identification of the substance/mixture and of the company/undertaking**

**1.1 Product identifier**

Substance Name / Trade Name: 5-Gene-Multiplex AKT1-BRAF-ERBB2-KRAS-PIK3CA  
5% AF cfDNA

Index No.: not available  
EC-No.: not available  
CAS-No.: not available  
REACH No.: There is no registration No. for this mix.  
Other names: not available

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

**Relevant identified uses:**

Use as laboratory reagent - for scientific research and development

**Uses advised against:**

Not for consumer use.

**1.3 Details of the supplier of the safety data sheet**

**Manufacturer / Supplier:** SensID GmbH  
**Street/PO Box:** Schillingallee 68  
**Country-Code/Postcode/City:** D-18057 Rostock

**Point of contact for technical Support**

**Phone / Fax / E-Mail**  
+49(0)38137718201 / +49(0)38137718200 / E-Mail: support@sens-id.com

**1.4 Emergency Phone No.**

SensID GmbH +49 (0) 38137718201 (Reachability: on weekdays 8-16 o'clock)

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**Section 2: Hazards identification**

**2.1 Classification**

Classification according to Regulation (EC) No 1272/2008: No dangerous substance or dangerous mixture.

**Label elements according to (EC) No. 1272/2008**

The product does not need to be labelled in accordance with EC directives or respective national laws.

**Hazard-determining components for labelling contains:**

**Hazard statements:** not required

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Precautionary statements: not required

Other labelling elements

EU notes on specific hazards: not required

## 2.3 Other dangers

Physical hazards

harmless

Specific effects

No carcinogenic effects

No genetic alteration

No reproductive toxicity

No sensitization

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## Section 3: Composition/Information on Ingredients

### 3.1 Substances

< 1% TE Puffer

Impurities, stabilizing additives and single components: not applicable

### 3.2 Mixtures

There are no additional ingredients that are reportable or classified as hazardous to health or environment according to the current state of knowledge of the supplier in the applicable concentration.

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## Section 4: First aid measures

### 4.1 Description of the first aid measure

General information

No special actions required.

Following inhalation

Move to fresh air. In case of respiratory arrest give artificial respiration with additional oxygen.

Following skin contact

Wash with soap and a lot of water.

Following eye contact

Rinse eye immediately with plenty of water.

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**Following ingestion**

Rinse mouth with water. Never give water to an unconscious person. Do not induce vomiting without medical advice.

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

The main known symptoms and effects are described on the label (see section 2.2) and / or in chapter 11.

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

No Data available.

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**Section 5: Firefighting measures**

**5.1 Extinguishing media**

Suitable extinguishing media: water spray, Carbon dioxide (CO<sub>2</sub>), foam, dry chemicals

Unsuitable extinguishing media: not available

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

Hazardous combustion products: No further known.

**5.3 Advice for fire fighters**

Wear self-contained breathing apparatus and protective clothing.

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**Section 6: Accidental release measures**

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

Personal precautions

Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.

Personal protective equipment

Use personal protective equipment.

**6.2 Environmental precautions**

Avoid further leakage or spillage if safe to do so. Do not discharge into drains or rivers.

**6.3 Methods and material for containment and cleaning up**

For containment

Prevent further leakage or spillage if safe to do so.

For cleaning up

Soak up with inert absorbent material

**6.4 Reference to other sections**

See section 12 for additional information.

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## Section 7: Handling and Storage

### 7.1 Precautions for safe handling

Avoid contact with skin, eyes and clothes. Wear personal protective equipment.

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

#### Information on storage conditions

Store in a dry, cool and well-ventilated place. Store in properly labelled containers, avoid direct sunlight. Keep container tightly closed until ready for immediate use. Opened containers must be carefully closed and stored upright. Do not store in unmarked containers.

#### General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

## Section 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits / or biological values

No known values.

### 8.2 Exposure controls

#### Suitable technical control equipment

Provide adequate ventilation, especially in confined areas.

#### Personal protective equipment

**Eye / face protection:** Wear safety glasses with side shields

**Skin / body protection:** Wear suitable protective clothing and gloves.

#### Respiratory protection

With aerosol or mist formation. Filter device (EN141) type E against acidic gases.

#### Heat / Cold protection

No action needed.

#### Environmental exposure controls

See Section 12.

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## Section 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state:	liquid
Appearance:	colourless
Odour:	no information available
Odour threshold:	no information available
pH-value:	no information available

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Melting point/Freezing point:	Mixture has not been tested
Boiling point / boiling range:	Mixture has not been tested
Flash point:	Mixture has not been tested
Evaporation rate:	Mixture has not been tested
Flammability (solid, gas):	Mixture has not been tested
Upper/Lower flammability or explosive limits:	Mixture has not been tested
Vapor pressure:	no information available
Vapor density:	no information available
Relative Density:	no information available
Solubility:	no information available
Partition: n-octanol/water:	no information available
Decomposition temperature:	no information available
Auto-ignition temperature:	no information available
Viscosity:	no information available
Explosive properties:	Mixture has not been tested
Oxidising properties:	Mixture has not been tested

**9.2 Other information**

No data available.

**Section 10: Stability und Reactivity****10.1 Reactivity:**

Not known under normal environmental conditions.

**10.2 Chemical stability:**

Stable under normal conditions and under the temperature and pressure conditions expected during storage and handling.

**10.3 Possibility of hazardous reactions:**

No information available.

**10.4 Conditions to avoid:**Do not mix with ammonium oxides (NO<sub>x</sub>).**10.5 Incompatible materials:**

No information available.

**10.6 Hazardous decomposition products:**

None in normal processing.

**Section 11: Toxicological information****11.1 Information on toxicological effects**

Acute Toxicity:	Is not acutely toxic.
Skin corrosion / irritation:	Is not classified as corrosive / irritant.
Eye damage / irritation:	Is not classified as seriously damaging to the eyes or irritating to the eyes.
Sensitisation to the respiratory tract/skin:	Is not classified as an inhalation or skin allergen.
Germ cell mutagenicity:	Not classified as germ cell mutagen.

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Carcinogenicity:	Not classified as a carcinogen.
Reproductive toxicity:	Not classified as toxic to reproduction.
STOT – single exposure:	Is not classified as specific target organ toxicant (single exposure).
STOT – repeated exposure:	Is not classified as specific target organ toxicant (repeated exposure).
Aspiration hazard:	Is not classified as aspiration hazard.
Symptoms related to the physical, chemical and toxicological characteristics	In case of ingestion: Not known. In case of eye contact: Not known. In case of inhalation: No data available In case of skin contact: Not known. Further information: None Information on toxicokinetic, metabolism and distribution: No information available.

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### Section 12: Ecological information

12.1 Ecotoxicity	No information available.
12.2 Persistence and degradability:	The fabric is easily biodegradable.
12.3 Bioaccumulative potential:	No information available
12.4 Mobility in soil:	No information available
12.5 Results of PBT- and vPvB-assessment:	No information available.
12.6 Other adverse effects:	According to 1272/2008 / EC the substance is classified as non-aquatic.

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### Section 13: Disposal considerations

13.1 Waste treatment methods	No special procedures known. If necessary, clarify with the local disposal companies whether the product used is classified as dangerous.
Treatment of contaminated packaging	Disposal according to official regulations.
Waste code according to Waste Catalogue Ordinance (AVV)	Unavailable.
Special precautions	No special actions required.
relevant EU or other provisions	Not required.

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### Section 14: Transport information

Transport information is omitted as no special conditions apply.

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### Section 15: Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

There is no listing in the relevant provisions of the European Union (EU).

**National regulations Germany:**  
Water hazard class: none

**Other relevant regulations**  
REACH Art. 57: is not included

#### 15.2 Chemical safety assessment

Not available.

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### Section 16: Other information

The information in this SDS is provided in good faith based on our knowledge, but they do not constitute an assurance of product properties and do not establish a contractual relationship. The information contained in this SDS should not be considered as exhaustive and only serve as a guide. All materials and mixtures can harbour unknown hazard and should be used with care. Since conditions of use of the product are not under the control of SensID GmbH, it is the duty of the buyer/user to determine the necessary conditions for the safe use of the product. SensID GmbH will not be liable for any damages resulting from handling or contact with the product.

#### **Changes compared to the last version:**

No changes, version 01.

#### **Important literature and data sources:**

- Regulation (EC) No 1907/2006 (REACH), as amended by 2015/830 / EU
- Regulation (EC) No 1272/2008 (CLP, EU-GHS)

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#### Abbreviation

CAS	Chemical Abstracts Service ((database of chemical compounds and their unique key, the CAS Registry Number)
CLP	Classification, Labelling and Packaging of substances and mixtures
EC	European Community
EC-No.	EC-No. The EC Inventory (EINECS, ELINCS and the NLP directory) is the source of the seven-digit EC number as a substance index in the European Union
Index-No.	The index number is the identification code specified in Part 3 of Annex VI to Regulation (EC) No 1272/2008
PBT	Persistent, Bioaccumulative and Toxic
REACH	Regulation (EC) No 1907/2006 (REACH Regulation) Registration, Evaluation, Authorization and Restriction of Chemicals
vPvB	very Persistent and very Bioaccumulative
STOT	specific target organ toxicant

End of safety data sheet.