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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 Set cfDNA, AKT1/BRAF/ERBB2/KRAS/PIK3CA (SID-000095)

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)

Section 2: Hazards identification

2.1 Classification

Classification according to Regulation (EC) No 1272/2008:

Mixture contains < 1% EDTA; CAS No. 60-00-4

Etching/irritation to the skin – category 2

Severe eye damage / irritation – Category 2A

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



Pictogram:

Signal word: ATTENTION

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Hazard-determining components for labelling contains:

Hazard statements:

H315 – Causes skin irritation

H319 – Causes severe eye irritation

Precautionary statements:

P332 + P313 – For skin irritation: seek medical advice / help

P362 – Remove contaminated clothing and wash before wearing again

P264 – Wash hands thoroughly after use

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

P305 + P351 + P338 – IF IN EYE CONTACT: Rinse gently with water for several minutes.

Remove existing contact lenses if possible. Continue rinsing

P337 + P313 – If eye irritation persists: seek medical advice / attention

Other labelling elements

EU notes on specific hazards:

R-phrases

R36/38 – Irritating to eyes and skin

S-phrases

S26 – In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S24/25 – avoid contact with eyes and skin

S36/37/39 – Wear suitable protective clothing, gloves and eye/face protection.

2.3 Other dangers

Physical hazards

harmless

Specific effects

No carcinogenic effects

No genetic alteration

No reproductive toxicity

No sensitization

Section 3: Composition/Information on Ingredients

3.1 Substance

Impurities, stabilizing additives and single components:

Main component of the substance

Substance name: 5-Gene-Multiplex Set cfDNA, AKT1/BRAF/ERBB2/KRAS/PIK3CA

Index-Nr.: not available

EG-Nr.: not available

CAS-Nr.: not available

Impurities, stabilising additives and individual constituents

Substance name: sodium chloride 0.1 – 1%

Index-Nr.: not available

EG-Nr.: not available

CAS-Nr.: 7647-14-5

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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.

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.

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.

Section 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: water spray, Carbon dioxide (CO₂), 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.

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.

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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.

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.

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Environmental exposure controls

See Section 12.

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
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:

No information available.

10.5 Incompatible materials:

No information available.

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10.6 Hazardous decomposition products:

None in normal processing.

Section 11: Toxicological information

11.1 Information on toxicological effects

Chemical name	LD50 (oral, rat)	LD 50 (dermal, rabbit)
sodium chloride 7647-14-5	3000 mg/kg	>10.000 mg/kg
Chemical name	LD50 (oral, rat)	
Editic acid (EDTA) 60-00-4	2580 mg/kg	

	sodium chloride 7647-14-5	Editic acid (EDTA) 60-00-4
Acute toxicity:	Is not acutely toxic	Based on the available data, a classification is not fulfilled.
Corrosivity/irritation to skin	Not to be classified as skin corrosive/irritant.	Slight irritation
severe eye damage/irritation:	Not to be classified as severe eye damage or irritation.	Causes severe eye irritation.
Sensitization of the respiratory tract/skin:	Not to be classified as an inhalation or skin allergen.	Based on the available data, the classification criteria are not met.
Germ cell mutagenicity:	Not classified as germ cell mutagenic.	Based on the available data, the classification criteria are not met.
Carcinogenicity:	Not classified as carcinogenic.	Based on the available data, the classification criteria are not met.
Reproductive toxicity:	Not classified as toxic for reproduction.	Based on the available data, the classification criteria are not met.
Specific target organ toxicity at single exposure:	Not to be classified as specific target organ toxicity (single exposure).	Based on the available data, the classification criteria are not met.
Specific target organ toxicity for repeated exposure:	Not to be classified as specific target organ toxic (repeated exposure).	Based on the available data, the classification criteria are not met.
Aspiration hazard:	Not to be classified as dangerous for aspiration.	Based on the available data, the classification criteria are not met.
symptoms and effects (delayed and chronic) with information on routes of exposure	If swallowed: vomiting, nausea In contact with eyes: causes mild to moderate irritation. If inhaled: no data available In contact with skin: essentially non-irritant Other information: None Information on toxicokinetics, metabolism and distribution: No information known.	If swallowed: no data available In case of contact with eyes: causes severe irritation If inhaled: no data available In contact with skin: slight irritation Other information: None Information on toxicokinetics, metabolism and distribution: No information known.

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Section 12: Ecological information

	Sodium chloride 7647-14-5	Editic acid (EDTA) 60-00-4
12.1 Toxicity:	in accordance with 1272/2008/EC: Not classified as hazardous to the aquatic environment.	EC50 bacteria (16 hours) 28 mg/l MSDS LC50 Fish (96 hours) Minimum value: 41 mg/l Maximum value: 532 mg/l (GESTIS substance database) EC50 Crustaceans (48 hours) Minimum value: 113 mg/l Maximum value: 113 mg/l (GESTIS substance database)
12.2 Persistence and degradability:	The methods for determining biodegradability are not applicable to inorganic substances.	Not readily biodegradable.
12.3 Bioaccumulation potential:	No data available	
12.4 Mobility in the ground:	No data available	
12.5 Result of the PBT and vPvB assessment:	No data available	
12.6 Other adverse effects:	Weakly hazardous to water (AwSV)	WGK 2: water endangering Do not allow to enter groundwater, water bodies or sewage system.

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)

18 02 05*

Special precautions

Collection of small quantities: Do not place waste in sinks or garbage cans. Place in collection container for liquid organic residues. Collection containers must be clearly labelled with the systematic name of their contents. Keep containers in a well-ventilated place. Hand over to the competent authority for waste disposal.

relevant EU or other provisions

Not required.

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

Regulation (EC) No. 648/2004 (Detergents Regulation): listed
There is no further listing in the relevant provisions of the European Union (EU).

National regulations Germany:
Water hazard class: WGK 2 (list classification): water hazardous
TRGS: ASR A1.3 Observe eye protection
TRGS 201, TRGS 400, TRGS 600, TRGS 500, TRGS 509, TRGS 510, TRGS 800

Other relevant regulations
The substance is classified and labelled according to the CLP Regulation: GHS07
Signal word: Attention
REACH Art. 57: not included

15.2 Chemical safety assessment

DGUV Rule 112-195
Use of protective gloves Updated reprint October 2007

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
DGUV	German statutory accident insurance
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
EC50	average effective concentration
EDTA	Ethylenediaminetetraacetic acid (Editic acid)
Index-No.	The index number is the identification code specified in Part 3 of Annex VI to Regulation (EC) No 1272/2008
LC50	Lethal Concentration
LD50	Lethal dose
MARPOL	International Convention for the Prevention of Pollution from Ships (acronym "Marine Pollutant")
mg/kg	Milligram per kilogram
mg/l	Milligram per litre
PBT	Persistent, Bioaccumulative and Toxic
ppm	Parts per million (parts per million)
REACH	Regulation (EC) No 1907/2006 (REACH Regulation) Registration, Evaluation, Authorization and Restriction of Chemicals
TRGS	Technical Rules for Hazardous Substances
vPvB	very Persistent and very Bioaccumulative

End of the safety data sheet.