

# STK<sup>®</sup> Sperm Tracker SKIN

Ref. AXO-STK-SK10

## Safety Data Sheet

### SOMMAIRE

|  |    |
|--|----|
| SECTION 1. Identification of the substance / mixture and of the organization / company ..... | 3  |
| SECTION 2. Hazards identification .....  | 3  |
| SECTION 3. Composition / information on ingredients.....                                     | 4  |
| SECTION 4. First aid measures .....  | 5  |
| SECTION 5. Firefighting measures.....  | 6  |
| SECTION 6. Accidental release measures.....  | 7  |
| SECTION 7. Handling and storage .....  | 8  |
| SECTION 8. Exposure controls / personal protection.....                                      | 9  |
| SECTION 9. Physical and chemical properties.....   | 11 |
| SECTION 10. Stability and reactivity.....  | 12 |
| SECTION 11. Toxicological information.....   | 13 |
| SECTION 12. Ecological information .....   | 14 |
| SECTION 13. Disposal considerations .....  | 15 |
| SECTION 14. Transport information.....   | 16 |
| SECTION 15. Regulatory information.....  | 17 |
| SECTION 16. Other information .....  | 18 |

**SECTION 1. Identification of the substance / mixture and of the organization / company****1.1. Product Identifiers**

Product name: **STK® Sperm Tracker Skin**

Catalog reference: AXO-STK-SK10

Composition: mixture of reagent powder that allows specific detection of male seminal fluid traces on the skin.

**1.2. Recognized appropriate applications for the mixture and inappropriate applications**

Components of an orientation test.

Forensic use only. Not for *in vitro* diagnostic.

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

AXO Science SAS

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36 Bis rue de Bruxelles

e-mail: support@axoscience.com

69100 Villeurbanne - FRANCE

**1.4. Emergency phone number**

ORFILA (INRS [French Institute for Research and Security]) number: + 33 (0)1 45 42 59 59

**SECTION 2. Hazards identification****2.1. Classification of the substance or mixture**

Classification in compliance with (EC) Regulation No. 1272/2008 (CLP):

The powder mixture contains citric acid which can cause eye irritation / eye lesions (Cat 2, H319). Once diluted in 100ml of water as recommended, proportion of citric acid will be <1%.

**2.2. Label Elements**

Signal word: Danger

**2.3. Other Hazards**

None

**SECTION 3. Composition / information on ingredients****3.2. Mixture**

Although it is a mixture composed of several substances it does not fall into the category of hazardous compound as defined by (EC) Regulation No. 1272/2008. In accordance with this regulation, listing all of the components is not mandatory.

Because of the manufactured/imported annual quantities involved, the compound is exempt from registration with REACH.

**SECTION 4. First aid measures****4.1. Description of first aid measures****In case of inhalation of powder**

In case of inhalation ensure the patient inhales fresh air. If their breathing or heart stops, immediately begin cardiopulmonary resuscitation (CPR).

**In case of contact between powder and skin**

Wash the affected area for at least 15 minutes with plenty of soap and rinse under running water. Do not attempt to neutralize the affected area. Consult a doctor if skin irritation continues.

**In case of contact with eyes**

Protect the unaffected eye; then with the eye wide open with the eyelids held back, thoroughly flush the eye under running water using an eye bath or a shower for at least 10 minutes.

**In case of swallowing**

In case of swallowing, rinse out the mouth with water. In case of any ongoing pain or discomfort, consult a doctor.

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

If relevant, the known main symptoms and effects are described on the label (see section 2.2) and/or section 11.

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

No other important details available.

**SECTION 5. Firefighting measures****5.1. Extinguishing media****Appropriate fire extinguishing methods**

Ensure you use the correct type of extinguisher for the nature of the fire you are dealing with, or, use a fire blanket if necessary. Any of the following methods may be used to fight the fire: alcohol-resistant foam, high-pressure water jet, dry chemical powder or dry ice.

**5.2. Special Hazards arising from the substance or mixture****Dangerous combustible products**

The nature of all the decomposition products is not known.

Creation of steam/air compounds which may be irritating or hazardous to health.

**5.3. Advice for firefighters****Special protection equipment for those involved in fighting the fire**

If necessary, wear breathing equipment, protected from the outside environment (a standalone supply of oxygen) especially in cases of severe contamination. If you are involved in fighting the fire, always wear a chemical protection suit (an all-in-one suit for total protection).

**SECTION 6. Accidental release measures****6.1. Environmental precautions**

There are no specific precautions to be taken.

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

Store all products in the specially designed containers and keep it hermetically sealed to prevent leaks.

**6.3. Reference to other sections**

Please see section 8 for further information on PPE.

Please see section 13 for further information on disposal.

## SECTION 7. Handling and storage

### 7.1. Precautions for safe handling

Please handle all items in accordance with the attached instructions. Please see Section 2.2 and 8.2.2 with regard to the precautions to be adopted.

#### **Recommended hygiene procedures in the workplace:**

Wear gloves when handling the material.

Never eat, drink, smoke or keep any food in the workplace.

Wash your hands after any contact with the product.

Ensure you remove any contaminated clothing and PPE before entering areas where food is served.

### 7.2. Condition for safe storage, including any incompatibilities

The original packaging offers the most secure way to store the product. For storage, keep the original packaging hermetically sealed and store it in premises protected from natural light.

See User Guide for the information regarding preservation and integrity.

If applicable, see Section 12 for the different categories of storage.

### 7.3. Specific end use(s)

Apart from the applications specified in section 1.2, there is no additional use intended for this product.



**SECTION 8. Exposure controls / personal protection****8.1. Control parameters****8.1.1. Limits on professional exposure**

This product does not contain any substances subject to professional exposure limits.

**8.1.2. Information relating to follow-up procedures**

No data available.

**8.2. Exposure controls****8.2.1. Suitable control procedures**

Handle this material in accordance with safety instructions and industrial hygiene best practices. Wash hands thoroughly before taking a break and at the end of the working day. Maintain the highest standards of cleanliness in the workplace.

**8.2.2. Personal protection equipment****8.2.2.1. Protection for the eyes and face**

When handling the powder, always use eye protection equipment (safety goggles); goggles should have wraparound lenses or envelop the eyes totally.

**8.2.2.2. Protection for skin****Protection for hands**

Protection recommended with gloves when handling the product. Gloves used for this purpose must meet the specifications of EU Council Directive 89/686 and the derived European Standard EN374 (EN 374-3 class I). The minimum thickness for the recommended material is 0.11 mm.

Gloves should be checked before use. To prevent any contact between the product and the skin (in other words to avoid touching the external surface of the glove), use a suitable technique to take off the gloves. Dispose of any contaminated gloves after use in accordance with prevailing local directives and laboratory best practice. Wash and dry your hands.

**Protect mucous**

Do not spray directly on the mucous, protect the mucous before spraying. If STK Skin is accidentally sprayed on a mucous, rinse thoroughly with water. If any problems appear, consult a doctor.

**8.2.2.3. Respiratory protection**

In case of dust, use type P1 (EN 143) protection masks. Always use tested and approved material, displaying CE Marking.

**8.2.2.4. Heat hazards**

No data available.

### 8.2.3. Exposure control linked to environmental protection

No data available

**SECTION 9. Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

| Physical and chemical properties                             | Identification of the substance or the compound |
|--|---|
|  | STK® Sperm Tracker Skin                         |
| Appearance   | - powder<br>- color: white                      |
| Odor   | no data available                               |
| Odor threshold   | no data available                               |
| pH   | no data available                               |
| Melting point/freezing point                                 | no data available                               |
| Boiling point and boiling range                              | no data available                               |
| Flash point  | no data available                               |
| Evaporation rate   | no data available                               |
| Flammability (solid, gas)                                    | no data available                               |
| Upper/lower limits of flammability or explosivity            | no data available                               |
| Steam pressure   | no data available                               |
| Steam density  | no data available                               |
| Relative density (or apparent density in the case of solids) | no data available                               |
| Solubility   | no data available                               |
| Octanol/water partition coefficient (KOW)                    | no data available                               |
| Autoignition temperature                                     | no data available                               |
| Decomposition temperature                                    | no data available                               |
| Viscosity  | no data available                               |
| Explosive potential  | no data available                               |
| Combustible potential  | no data available                               |

**SECTION 10. Stability and reactivity****10.1. Reactivity**

No data available

**10.2. Chemical stability**

Inert whilst in the recommended storage conditions.

**10.3. Possibility of hazardous reactions**

No data available

**10.4. Conditions to avoid**

Sensitivity to UV light. Do not expose to light.

Sensitive to heat. Do not store in temperatures exceeding 35°C.

**10.5. Incompatible materials**

No data available

**10.6. Hazardous decomposition products**

There is no evidence of any hazard from this product when stored in its original packaging.

**SECTION 11. Toxicological information****11.1. Information on toxicological effects****Acute toxicity**

No discernible toxicity

**Burns/irritation to the skin**

No data available

**Serious injuries to the eye/eye irritation**

No data available

**Breathing or skin reactions**

No data available

**Germ cell mutagenicity**

No data available

**Carcinogenicity**

IARC: The International Agency for Research on Cancer has not identified any probable, possible or acknowledged substance that is carcinogenic in humans in a concentration level greater than or equal to 0.1% in this product.

**Reproductive toxicity**

No data available

**Summary of CMR property evaluation**

No data available

**Specific toxicity for certain target organs - single exposure**

No data available

**Specific toxicity for certain target organs - multiple exposure**

No data available

**Hazard caused by inhalation**

No data available

**Miscellaneous toxicity**

No data available

**SECTION 12. Ecological information****12.1. Toxicity**

Data not available

**12.2. Persistence and degradability**

Data not available

**12.3. Bioaccumulative potential**

Data not available

**12.4. Mobility in soil**

Data not available

**12.5. Results of PBT and vPvB assessment**

No results for tests for PBT/vPvB are available because the chemical safety analysis is not required / has not been conducted.

**12.6. Other adverse effects**

No data available

**SECTION 13. Disposal considerations****13.1. Waste treatment methods**

No particular recommendation. Please refer to SECTION 2 and your local waste management policy and regulation.

**SECTION 14. Transport information**

The substances and compounds contained within this product do not represent a hazard for the environment according to the ADR, RID, ADN and the IMDG code and do not require specific safety precautions during transportation.

**14.1. UN number**

Not applicable

**14.2. UN proper shipping name**

Non-hazardous merchandise

**14.3. Transport hazard class(es)**

Not applicable

**14.4. Packaging group**

Not applicable

**14.5. Environmental hazards**

Not applicable

**14.6. Special precautions for users**

Not applicable



**SECTION 15. Regulatory information****15.1. Safety, health and environmental regulation/legislation specific for the substance or mixture**

This safety data sheet is compliant with the requirements of (EC) Regulation No. 1907/2006 and EU 453/2010.

**National legislation:**

National legislation relating to the limit values on professional exposure to chemical agents: see Section 8.1.1.

**15.2. Chemical safety assessment**

No assessment of the chemical safety of this product or compound has been carried out by the supplier.

**SECTION 16. Other information****16.1. Updates information**

Symbol ▲ shows changes that have been made compared to previous version.

**16.2. Abbreviations and acronyms**

|        |  |
|--------|--|
| ADN    | The European agreement relating to the international transportation of hazardous merchandise over internal navigation routes |
| ADR    | European Agreement on the International Carriage of Dangerous Goods by Road  |
| CAS    | Chemical Abstracts Service (a division of the American Chemical Society)   |
| GHS    | Globally Harmonized System of Classification and Labelling of Chemicals  |
| IARC   | International Agency for Research on Cancer  |
| IMDG   | International Maritime Code for Dangerous Goods  |
| INRS   | National Institute for Research and Safety   |
| LoW    | European List of Waste   |
| NA     | not applicable   |
| N.S.A. | Otherwise not applicable   |
| PBT    | persistent bioaccumulative and toxic for the environment   |
| REACH  | Registration, Evaluation, Authorization and Restriction of Chemicals   |
| RID    | Regulations concerning the International Carriage of Dangerous Goods by Rail   |
| VCI    | Verband der Chemischen Industrie (German Chemicals Industry Association)   |
| vPvB   | very persistent and very bioaccumulative for the environment   |

**16.3. Select bibliography and data sources**

REACH Regulation 453/2010/EU - requirements relating to the establishment of a safety data sheet

Guidelines from the (Swiss) SUVA insurance organization relating to exposure limit values in the workplace, updated January 2009

German technical ruling TRGS 900 on air limit values in the workplace, dated January 2006, May 2010 version

German technical ruling TRGS 907 relating to a list of sensitizing substances and supporting information from November 2011

The EC 1999/92 Directive relating to legislation applying to users of any material located in explosive environments

KÜHN, BIRETT leaflets relating to hazardous material in the workplace.

The Guide to Understanding the Safety Datasheets, Version 2.0, December 2013 European Chemicals Agency (ECHA)

The GESTIS database on International Limit Values

**16.4. Classification and process used to classify compounds in accordance with the (EC) Regulation 1272/2008 (CLP)**

Not applicable

**16.5. Comments about appropriate hazardous items****Comments about hazards and precautionary advice (according to Regulation (EC) CLP No. 1272/2008)**

Not applicable

**16.6. Training advice**

Regular training relating to the hazards and safety processes in place when handling hazardous substances should be offered to all staff. Additional targeted information should be given to staff involved in handling these products.

**16.7. Further information**

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Information detailed above is a reflection of our current knowledge and understanding. It is not intended to be exhaustive and should be considered as a guide. AXO Science will not be held responsible for any damages resulting from the use of or contact with the product mentioned above.

The safety instructions described relate exclusively to the use of the product by a competent member of staff in a safe and secure environment. Each and every reader of these safety instructions is required to ensure that his/her training and skill sets are sufficient to be able to handle these products responsibly. These instructions are not intended to confirm ownership of the product in the sense of any warranties or guarantees nor do they offer any kind of guarantee whatsoever. They do not constitute a contractual or extra-contractual legal agreement. AXO Science will not accept any claim for damages, howsoever incurred, resulting from the use of or the certainty provided by these safety instructions. For further information, we advise you to consult our conditions of sale and delivery.

**Recommended restrictions for the work place**

This product is intended for use by professionals only. Observe restrictions surrounding the employment of young people. Observe legal provisions in force regarding the protection of young people in the workplace (EC/94/33). Observe restrictions surrounding the employment of pregnant women and mothers breast-feeding young babies. Observe legal provisions in force regarding the protection of new mothers in the workplace (EEC/92/85).