

LBSO-RD-SDS-CS-001

SAFETY DATA SHEET

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

a. Product Name : Electrophoretic Tissue Clearing Solution

Product Number : C13001

b. Relevant identified uses of the substance or mixture and uses advised against : Identified uses

Laboratory chemicals, Manufacture of substances

c. Manufacturer & Supplier : Aligned Genetics, Inc

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SECTION 2: Hazards identification

a. GHS classification

Classification according to Regulation (EC) No 1272/2008 Skin corrosion/Irritation (Category 2), H315 Serious eye damage/eye irritation (Category 1), H318 Reproductive toxicity (Category 1B), H360FD

b. GHS-Labeling

Labeling according to Regulation (EC) No 1272/2008 Hazard pictograms



Signal word Danger

Hazard statements

H315 - Causes skin irritation.

H318 - Causes serious eye damage.

H360 - May damage fertility or the unborn child

Precautionary statements

Prevention

P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P264 - Wash skin thoroughly after handling.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P281 - Use personal protective equipment as required.

Response

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.

P332 + P313 - If skin irritation occurs: Get medical advice/attention.

P362 - Take off contaminated clothing and wash before reuse.

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.

P308 + P313 - IF exposed or concerned: Get medical advice/attention.

Storage

P405 - Store locked up.

Disposal

P501 - Dispose of contents/container to an approved waste disposal plant.

c. Other hazard which do not result in classification

None

SECTION 3: Composition/Information on ingredients

3b. Mixtures

Component: Sodium dodecvl sulfate(SDS)

Synonyms: Dodecyl sodium sulfate, Dodecyl sulfate sodium salt, Lauryl sulfate sodium

salt, SDS, Sodium lauryl sulfate

Formula: $C_{12}H_{25}NaO_4S$ CAS-No.: 151-21-3 Weight%: 3 – 5% Component: Boric acid

Synonyms: Orthoboric acid, boric acid, boracic acid, borofax

Formula: H_3BO_3 CAS-No.: 10043-35-3 Weight%: 1-2%

Component: Sodium hydroxide

Synonyms: Caustic soda, Lye, Soda lye, Sodium hydrate

Formula: NaOH CAS-No.: 1310-73-2 Weight%: 0.1 – 0.2%

SECTION 4: First aid measures

a. In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

b. In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

c. If inhaled

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

d. If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

e. General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

f. Most important symptoms and effects, both acute and delayed

The sodium salt of dodecyl sulfate has been reported to cause pulmonary sensitization resulting in hyperactive airway dysfunction and pulmonary allergy accompanied by fatigue, malaise, and aching. Significant symptoms of exposure can persist for more than two years and can be activated by a variety of nonspecific environmental stimuli such as automobile exhaust, perfumes, and passive smoking. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

g. Indication of any immediate medical attention and special treatment needed No data available.

SECTION 5: Firefighting measures

a. Suitable extinguishing media

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

b. Specific hazards arising from the chemical

Carbon oxides, nitrogen oxides (NOx), Hydrogen chloride gas.

c. Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

d. Further information

No data available.

SECTION 6: Accidental release measures

a. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes, and clothing. Use personal protective equipment. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation.

b. Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Discharge into the environment must be avoided

c. 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.

d. Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storge

a. Precautions for safe handling

Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.

b. Conditions for safe storge

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

c. Specific end use(s)

No data available.

SECTION 8: Exposure controls/ personal protection

a. Control parameters

Components with workplace control parameters.

b. Appropriate engineering controls

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

c. Personal protective equipment

Eye/face protection

Tightly fitting safety goggles. Faceshield (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 report. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

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 multi-purpose 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

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

a. Appearance
b. Odor
c. Odor Threshold
d. pH
e. Melting point/freezing point
f. Initial boiling point and boiling range
g. Flash point

Form: clear, liquid
No data available
PH 8.5
No data available
No data available
No data available
No data available

h. Evaporation rate
i. Flammability (solid, gas)
j. Lower explosion limit
k. Upper explosion limit
l. Vapour pressure
m. Vapour density
No data available
No data available
No data available
No data available

n. Specific Gravity/Relative density 1,010 g/cm³

o. Solubility
 p. Partition coefficient: n-octanol / water
 q. Auto-ignition temperature
 r. Decomposition temperature
 s. Viscosity
 t. Dynamic viscosity
 No data available
 No data available
 No data available
 No data available
 No data available

Other safety information

No data available

SECTION 10: Stability and reactivity

a. Stability

Stable under recommended storage conditions.

b. Reactivity

No data available.

c. Possibility of hazardous reactions

No data available.

d. Conditions to avoid

No data available.

e. Incompatible materials

Oxidizing agents

f. Hazardous decomposition products

Hazardous decomposition products are formed under fire conditions. - Carbon oxides, Sulphur oxides, Oxides of phosphorus, Borane/boron oxides, Sodium oxides Other decomposition products - No data available In the event of fire: see section 5.

SECTION 11: Toxicological information

a. Delayed and immediate effects and also chronic effect from short and long term exposure

Acute toxicity

No data available.

Skin corrosion/irritation

No data available.

Serious eye damage/eye irritation

No data available.

Respiratory or skin sensitization

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.

Reproductive toxicity

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.

SECTION 12: Ecological information

a. Toxicity

No data available.

b. Persistence and degradability

No data available.

c. Bioaccumulative potential

No data available.

d. Mobility in soil

No data available.

e. Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative, and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

f. Other adverse effects

Harmful to aquatic life.

SECTION 13: Disposal considerations

a. Disposal methods

Offer surplus and non-recyclable solutions to a licensed disposal company.

b. Contaminates packaging

Dispose of as unused product.

SECTION 14: Transport information

UN number	ADR/RID: -	IMDG: -	IATA: -	

UN proper shipping name	ADR/RID: Not dangerous goods	IMDG: Not dangerous goods	IATA: Not dangerous goods
Transport hazard class(es)	ADR/RID: -	IMDG: -	IATA: -
Packaging group	ADR/RID: -	IMDG: -	IATA: -
Environmental hazards	ADR/RID: no	IMDG Marine pollutant: no	IATA: no
Special precautions for user	No data available		

SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

- a. Regulation under the Occupational Safety and Health Ac No data available.
- **b.** Chemical safety assessment No data available.

SECTION 16: Other information

Further information

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The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and applies to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Aligned Genetics, Inc. and its Affiliates shall not be held liable for any damage resulting from handling or contact with the above product. See the reverse side of the invoice or packing slip for additional terms and conditions of sale.

End of Safety Data Sheet