



MSDS (Material Safety Data Sheet)

MSDS revision date: 12/11/2017

1. Product and company identification

Product Name: TOOLSignal boosting buffer

Catalogue Numbers: TW-NB250

Contents

| Product | Content | Cat no: | Size |
|----------------------------|----------------------------|----------|--------|
| TOOLSignal boosting buffer | TOOLSignal boosting buffer | TW-NB250 | 250 ml |

Class Identifier: For research use only reagent

Company Identification: Biotools Co., Ltd.

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<http://www.tools-biotech.com>

2. Composition / information on hazardous ingredients

| Chemical name | % Conc. | CAS# | EC# | Classification (pure ingredient) | Class.(comp.) |
|-------------------------|------------|------|-----|-------------------------------------|---------------|
| Proprietary ingredients | - | - | - | Not hazardous | NA |
| Water | >50% | - | - | Not hazardous | NA |

Chemical characterization

Description: Solution, consisting of the following components.

Other components: Components not listed here are not hazardous or their concentrations do not exceed the limits specified in the OSHA Hazard Communication Standard 29.CFR 1910.1200.

3. Hazards identification

| | |
|--|--|
| Eyes | May cause eye irritation with susceptible persons. |
| Skin | May cause skin irritation and/or dermatitis. |
| Inhalation | May be harmful by inhalation. |
| Ingestion | May be harmful if swallowed. |
| Carcinogenic effects | No information available. |
| Mutagenic Effects | No information available. |
| Reproductive Toxicity | No information available. |
| Sensitization | No information available. |
| Causes skin and eye irritation. May be harmful by inhalation or swallowed. Health 0 Flammability 0 | |
| Reactivity 0 | |

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HMIS ratings (scale 0 4)

| | |
|------------|---|
| HEALTH | 0 |
| FIRE | 0 |
| REACTIVITY | 0 |

4. First aid measures

| | |
|--------------------|--|
| Ingestion | Never give anything by mouth to an unconscious person. Consult a physician. |
| After inhalation | Move to fresh air. If symptoms persist, call a physician. |
| After skin contact | Wash off immediately with plenty of water. If symptoms persist, call a physician. |
| After eye contact | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist. |
| Notes to physician | Treat symptomatically. |

5. Fire fighting measures

| | |
|-------------------------------|--|
| Suitable extinguishing agents | Dry chemical. |
| Protective equipment | Wear self-contained breathing apparatus and protective |

6. Accidental release measures

| | |
|-----------------------------------|--|
| Person related safety precautions | Use personal protective equipment. |
| Measures for cleaning/collecting | Soak up with inert absorbent material. |
| Additional information | No dangerous substances are released. |

7. Handling and storage

| | |
|----------|---|
| Handling | Wash thoroughly after handling. Wash hands before eating. Keep container tightly closed. Use with adequate ventilation. |
| Storage | Keep container closed when not in use. Store at room temperature. |

8. Exposure controls and personal protection

| | |
|---|--|
| Components with limit values that require monitoring at the workplace | The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. |
| Additional information | Ensure adequate ventilation, especially in confined areas. |
| Personal protective equipment | |
| Respiratory Protection | In case of insufficient ventilation wear suitable respiratory equipment. |
| Hand Protection | Protective gloves. |
| Eye Protection | Safety glasses with side-shields. |
| Skin and Body Protection | Lightweight protective clothing. |
| Hygiene Measures | Handle in accordance with good industrial hygiene and safety practice. |
| Environmental Exposure Controls | Prevent product from entering drains. |

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9. Physical and chemical protection

| | |
|--------------------------|--|
| General Information | Form: Liquid (buffer); Color: Colorless (buffer); Odor: Odorless |
| Boiling Point/Range | Not applicable. |
| Melting Point/Range | Not applicable. |
| Flash point | Not applicable. |
| Autoignition Temperature | Do not auto ignition. |
| Oxidizing Properties | No information available. |
| Water Solubility | Moderate. |

10. Physical and chemical protection

| | |
|----------------------------------|--|
| Stability | Stable under normal conditions. |
| Materials to be avoided | Metals. |
| Hazardous decomposition products | No information available. |
| Polymerization | Hazardous polymerisation does not occur. |

11. Toxicological information

| | |
|-------------------------|-------------------------------|
| Acute toxicity | No irritant effect. |
| Primary irritant effect | No irritant effect. |
| On the skin | No irritant effect. |
| On the eye | No irritant effect. |
| Sensitization | No sensitizing effects known. |

12. ECOLOGICAL INFORMATION

| | |
|---------------------|---------------------------|
| Ecotoxicity effects | No information available. |
| Mobility | No information available. |
| Biodegradation | No information available. |
| Bioaccumulation | No information available. |

13. DISPOSAL CONSIDERATIONS

| | |
|----------------|---|
| Recommendation | Dispose according to current regional and national rules. |
|----------------|---|

14. TRANSPORT INFORMATION

| | |
|------------------------------|---|
| Proper Shipping Name | Not classified as dangerous in the meaning of transport regulations |
| Road/Railway Haulage ADR/RID | Not restricted. |
| Sea Freight IMO (IMDG) | Not restricted. |

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Air Freight IATA (ICAO)

Not restricted.

UN Number

Not restricted.

15. REGULATORY INFORMATION

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

None of the chemicals in this product are considered highly hazardous by OSHA.

16. Other INFORMATION

This material is sold for research and development purposes only. It is not for any human or animal therapeutic or clinical diagnostic use. It is not intended for food, drug, household, agricultural, or cosmetic use. An individual technically qualified to handle potentially hazardous chemicals must supervise the use of this material.

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