

Material Safety Data Sheet: SHIELD Buffer

Section 1. Identification of the chemical product and of the company

1.1 Product identifier

- Trade name: SHIELD Buffer
- Catalog number: SH-BS

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

- Application of the substance/mixture: Laboratory chemicals.
- Restrictions on use: None identified.

1.3 Details of the supplier of the safety data sheet

- Manufacturer/Supplier: LifeCanvas Technologies
- Address: 1035 Cambridge Street, Suite 16C, Cambridge MA, 02141
- Technical services, customer support: support@lifecanvastech.com

1.4 Emergency telephone number

- 617-945-9793
- Use only in the event of a CHEMICAL EMERGENCY involving a SPILL, LEAK, FIRE, EXPLOSION or ACCIDENT.

Section 2. Hazard(s) identification

Information in accordance with U.S. 29 CFR 1910.1200 (Hazcom 2012) and Canada Hazardous Products Regulations (WHMIS 2015):

- Classification of the substance or mixture: Non-hazardous

Label elements:

- Hazard pictogram(s): None
- Signal word: Not a hazardous substance or mixture.
- Hazard Statements: Not a hazardous substance or mixture.
- Precautionary statements: Not a hazardous substance or mixture.
Precautionary statements are listed according to the United Nations Globally Harmonized System of Classification and Labelling of Chemicals (GHS) – Annex III. Regulations in individual countries/regions may determine which statements are required on the product label. See product label for specifics.

Hazards not otherwise classified:

- Physical hazards not otherwise classified: No Additional Information.
- Health hazards not otherwise classified: No Additional Information.

Section 3. Composition/information on ingredients

Chemical characterization: Mixtures

- Description: Mixture of the substances listed below with non-hazardous additions.
- Listing of dangerous and non-hazardous components: Non-hazardous components.

Section 4. First aid measures

Description of first aid measures

- General information: If irritation or other symptoms occur or persist from any route of exposure, remove the affected individual from the area: see a physician/get medical attention.
- After inhalation: If affected, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Seek medical advice if you feel unwell.
- After skin contact: Wash off with plenty of soap and water.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: Get medical attention immediately.
- Information for doctor: Wear proper personal protective clothing and equipment.
- Most important symptoms and effects, both acute and delayed: Not hazardous.
- Indication of any immediate medical attention and special treatment needed: Treat symptomatically.

Section 5. Fire fighting measures

Extinguishing media:

- Suitable extinguishing agents: Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards arising from the substance or mixture:

- Hazardous combustion products: Unknown.

Special protective equipment and precautions for fire-fighters: Wear self-contained respirator. Wear fully protective impervious suit.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Wear protective equipment. Keep unprotected persons away.

- Environmental precautions: Do not flush liquid into public sewer, water systems or surface waters.

- Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.
- Prevention of secondary hazards: No special measures needed.
- Reference to other sections: See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

Section 7. Handling and storage

Handling:

- Precautions for safe handling: Keep container tightly sealed. Ensure good ventilation at the workplace.
- Conditions for safe storage, including any incompatibilities: Store cool and dry, under well-ventilated conditions at RT. Protect from heat. Keep container tightly sealed.

Section 8. Exposure controls/personal protection

Control parameters:

- 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.

Exposure controls:

- Individual protection measures, such as personal protective equipment (PPE):
 - Eye/face protection: Safety glasses.
 - Skin and body protection: Wear impervious gloves. Check protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.
 - Respiratory protection: Do not inhale fumes. Work in well ventilated environment
 - Further information: Eyewash fountains and safety showers are recommended in the work area.

General protective measures: The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed.

Section 9. Physical and chemical properties

Information on basic physical and chemical properties

- Form: Liquid
- Appearance: Colorless to light yellow
- Odor: Odorless
- Odor threshold: Not available
- Solubility in water: Miscible
- Evaporation rate: Not available
- Vapor pressure: Not available
- Vapor density: Not available
- Viscosity: Not available
- Melting point/Freezing point: Not available
- Oxidizing properties: Not oxidizing
- Explosive properties: Not explosive
- Decomposition temperature: Not available
- Partition coefficient (n-octanol/water): Not available
- % Volatile by weight: Not available
- VOC: Not available
- Boiling point °C: Not available
- Boiling point °F: Not available
- Flash point: Not available
- Auto-ignition temperature: Not available
- Flammability (solid, gas): Not applicable (liquid)
- Flammability or explosive limits: LFL/LEL Not available, UFL/UEL Not available

Section 10. Stability and reactivity

Reactivity: No information known.

Chemical stability: This product is stable under recommended storage conditions.

Possibility of hazardous reactions: Water reacts violently with alkali metals.

Conditions to avoid: No further relevant information available.

Incompatible materials: Heat.

Hazardous decomposition products: Unknown.

Section 11. Toxicological information

Information on likely routes of exposure:

- General: Caution must be exercised through the prudent use of protective equipment and handling procedures to minimize exposure.
- Eyes: May cause serious eye irritation.

- Skin: May cause skin irritation.
- Inhalation: Inhalation of fumes may cause irritation.
- Ingestion: Ingestion may cause irritation.
- Symptoms/effects, acute and delayed: None known.

Acute toxicity information: The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for components in this product.

Skin corrosion/irritation: None known.

Serious eye damage/irritation: None known.

Respiratory or skin sensitization: No sensitizing effects known.

Carcinogenicity: Not classified.

Reproductive toxicity: Not classified.

Specific target organ toxicity (STOT) – single exposure: Not classified.

Specific target organ toxicity (STOT) – repeated exposure: Not classified.

Aspiration hazard: No effects known.

Other toxicity information: No additional information available.

Section 12. Ecological information

Ecotoxicity: No ecological testing has been conducted on this product.

Persistence and degradability: No specific information available.

Bioaccumulative potential: No specific information available.

Mobility in soil: No specific information available.

General notes: Do not allow material to be released to the environment without proper governmental permits.

Other adverse effects: No additional information available.

Section 13. Disposal considerations

Recommendation: Consult state, local or national regulations to ensure proper disposal. Disposal must be made according to official regulations.

Recommended cleaning product: Water, if necessary with cleaning agents.

Section 14. Transport information

The information below is provided to assist in documentation. It may supplement the information on the package. The packing in your possession may carry a different version of the label depending on the date of manufacture. Depending on inner packaging quantities and packaging instructions, it may be subject to specific regulatory exceptions.

UN number: N/A

UN proper shipping name: Not regulated – See bill of lading for details

Transport hazard classes:

- U.S. DOT hazard class: N/A
- Canada TRG hazard class: N/A
- Europe ADR/RID hazard class: N/A
- IMDG Code (ocean) hazard class: N/A
- ICAO/IATA (air) hazard class: N/A
- A N/A listing for the hazard class indicates the product is not regulated for transport by that regulation.

Packing group: N/A

Environmental hazards:

- Marine pollutant: Not applicable.
- Hazardous substances (USA): Not applicable.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBS code: Not applicable.

Special precautions for user: Not applicable.

Section 15. Regulatory information

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

- **U.S. federal and state regulations/legislation:** This SDS has been prepared in accordance with the hazard criteria of the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
- **U.S. Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) Reportable Quantity (RQ):** Not applicable.
- **U.S. Superfund Amendments and Reauthorization Act (SARA) – SARA Section 313:** This product contains no known toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and 40 CFR 372.
- **U.S. TSCA Section 12(b) Export Notification:** This product is not subject to TSCA 12(b) reporting requirements.
- **California Proposition 65:**
 - Warning: The following ingredients present in the product are known to the state of California to cause Cancer: None known to be present or none in reportable amounts for occupational exposure as per OSHA's approval of the California Hazard Communication Standard, Federal Register, page 31159 ff, 6 June 1997.
 - Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards: None known to be present or none in reportable amounts for occupational exposure as per OSHA's approval of the California Hazard Communication Standard, Federal Register, page



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31159 ff, 6 June 1997.

- **Canada regulations/legislation:** This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations and the SDS contains all the information required by the Hazardous Products Regulations.
- **Mexico regulations/legislation:** This SDS contains all the information required by NOM-018-STPS-2000 Workplace Hazardous Chemical Substances Communication and Identification Standard. Notes: No additional information.

Section 16. Other information

References: Not available.

Other Special Considerations: Not available.

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The information above is believed to be accurate and represents the best information currently available. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.