

Material Safety Data Sheet

SmartClear Clearing Buffer

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

1.1 Product identifier

- Trade name: SmartClear Buffer set (TypeA, TypeB) 2nd Gen.
- Catalogue Number: SC-B2001

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

No further relevant information available.

Application of the substance / the mixture : Laboratory chemicals.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

LifeCanvas Technologies.

302-301, Jamwon-ro 88, Seocho-gu, Seoul Korea

Technical services, customer support: support@lifecanvastech.com

1.4 Emergency telephone number: +82-10-2498-7980 Use only in the event of a CHEMICAL EMERGENCY involving a SPILL, LEAK, FIRE, EXPLOSION or ACCIDENT.

Section 2. Hazard(s) identification

· **Classification of the substance or mixture**

The product is not classified according to the Globally Harmonized System (GHS).

· **Label elements**

· **GHS label elements** Void

· **Hazard pictograms** Void

· **Signal word** Void

- **Hazard statements** *Void*
- **Additional information:** *Contact with acids may cause release of toxic gases*
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** *Not applicable.*
- **vPvB:** *Not applicable.*

Section3. 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:**
151-21-3 Sodium Dodecyl Sulfate 10-20%

Section4. First-aid measures

- **Description of first aid measures**
- **General information** *No special measures required.*
- **After inhalation** *Supply fresh air; consult doctor in case of complaints.*
- **After skin contact** *Generally the product does not irritate the skin.*
- **After eye contact** *Rinse opened eye for several minutes under running water.*
- **After swallowing** *Induce vomiting and call for medical help.*
- **Information for doctor**
- **Most important symptoms and effects, both acute and delayed** *No further relevant information available.*
- **Indication of any immediate medical attention and special treatment needed** *No further relevant information available.*

Section5. Fire-fighting measures

Extinguishing media

- **Suitable extinguishing agents**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** *No further relevant information available.*
- **Advice for firefighters**
- **Protective equipment:** *No special measures required.*

Section6. Accidental release measures

Personal precautions, protective equipment and emergency procedures *Wear protective clothing.*

- **Environmental precautions:**
*Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.*
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **Reference to other sections**

No dangerous substances are released.

Section 7. Handling and storages

Handling

- **Precautions for safe handling** Do not ingest. Do not breathe gas/fumes/ vapor/spray. Wear suitable
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:** Room temperature, Keep container tightly closed.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.

Specific end use(s) No further relevant information available

Section 8. Exposure controls/Personal protection

Additional information about design of technical systems: No further data; see item 7.

- **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.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures** The usual precautionary measures for handling chemicals should be followed.
- **Breathing equipment:** Not required.
- **Protection of hands:** Protective gloves
- **Material of gloves** Synthetic gloves
- **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Safety glasses

Section 9. Physical and chemical properties

Information on basic physical and chemical properties

- **General Information**
- **Appearance:**
Form: Liquid
Color: Light yellow
- **Odor:** Odorless
- **Odour threshold:** Not determined.
- **pH-value at 20 °C:** 9.5

· **Change in condition**

Melting point/Melting range: undetermined

Boiling point/Boiling range: undetermined

· **Flash point:** Not applicable

· **Flammability (solid, gaseous)** Not applicable.

· **Ignition temperature:**

Decomposition temperature: Not determined.

· **Auto igniting:** Product is not self-igniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Explosion limits:**

Lower: Not determined.

Upper: Not determined.

· **Water:** Fully miscible

· **Partition coefficient (n-octanol/water):** Not determined.

· **Viscosity:**

dynamic: Not determined.

kinematic: Not determined.

· **Solvent content:**

Organic solvents: 0.0 %

· **Other information** No further relevant information available.

Section10. Stability and reactivity

Reactivity

· **Chemical stability**

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

· **Possibility of hazardous reactions** No dangerous reactions known

· **Conditions to avoid** No further relevant information available.

· **Incompatible materials:** No further relevant information available.

· **Hazardous decomposition products:** No dangerous decomposition products known

Section11. Toxicological information

Routes of entry: Absorbed through skin. Eye contact.

Toxicity to animals: Acute oral toxicity (LD50): 6440 mg/kg (Rat) (Calculated value for the mixture).

Chronic effects on humans: MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast. [Sodium dodecyl sulfate]. Contains material, which may cause damage to the following organs: skin.

Other toxic effects on humans: Slightly hazardous in case of skin contact (irritant, sensitizer), of ingestion, of inhalation.

Special remarks on toxicity to animals: Lowest published lethal dose: LDL [Rabbit] - Route: Skin; Dose: 10000 mg/kg (Sodium dodecyl sulfate)

Special Remarks on chronic effects on humans: May cause adverse reproductive effects based on animal test data. No human data found. (Sodium dodecyl sulfate)

Special Remarks on other toxic effects on humans: Acute potential health effects: skin irritation. May cause allergic reaction. It may be absorbed through the skin. Eyes: Causes eye irritation. Inhalation: Breathing mist or vapor may cause respiratory tract and mucous membrane irritation. May cause allergic respiratory reaction. Ingestion: May cause gastrointestinal tract irritation with nausea, vomiting, diarrhea, and bloating. May also affect behavior (ataxia, somnolence), and cardiovascular system. Chronic potential health effects: Skin: Repeated or prolonged skin contact may cause allergic dermatitis. Inhalation: Repeated or prolonged inhalation may cause allergic respiratory reaction. Ingestion: Repeated or prolonged ingestion may also affect the liver.

Section12. Ecological information

Toxicity

- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

Section13. Disposal considerations

Waste treatment methods

- **Recommendation**

Hand over to hazardous waste disposers.

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

Section14. Transport information

- **UN-Number**
- **DOT, ADR, ADN, IMDG, IATA** Void
- **UN proper shipping name**
- **DOT, ADR, ADN, IMDG, IATA** Void
- **Transport hazard class(es)**
- **DOT, ADR, ADN, IMDG, IATA**
- **Class** Void
- **Packing group**

- **DOT, ADR, IMDG, IATA Void**
- **Environmental hazards:**
- **Marine pollutant:** No
- **Special precautions for user** Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.
- **Transport/Additional information:** Not dangerous according to the above specifications.
- **UN "Model Regulation":** -

Section15. Regulatory information

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

- **SARA (Superfund Amendments and Reauthorization Act of 1986 - USA)**
- **Section 302/304 (40CFR355.30 / 40CFR355.40):**

None of the ingredients is listed.

- **Section 313 (40CFR372.65):**

None of the ingredients is listed.

- **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

- **Carcinogenic categories**
- **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

- **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

- **MAK (German Maximum Workplace Concentration)**

None of the ingredients is listed.

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

- **National regulations**

- **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

Section16. Other information.

References: Not available.

Other Special Considerations: Not available.

Created: 12/07/2015 13:29 PM

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.