

**6 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing SDS: Environmental Health and Safety.

Contact: Life Science Group, Environmental Health and Safety, 2000 Alfred Nobel Drive, Hercules, California, 94547, (510) 741-1000

Diagnosite Group, Environmental Health and Safety, 4000 Alfred Nobel Drive, Hercules, California, 94547, (510) 724-2000

Date of preparation / last revision 09/20/2017

Abbreviations and acronyms:

- ADR: Accord européen sur le transport des marchandises dangereuses (voir Notice d'Entente Agreement concerning the International Carriage of Dangerous Goods by Road)
  - ADR: International Maritime Code for Dangerous Goods
  - DOT: US Department of Transportation
  - IATA: International Air Transport Association
  - ACGIH: American Conference of Governmental Industrial Hygienists
  - ELINCS: European Inventory of Existing Commercial Substances
  - CAS: Chemical Abstracts Service (division of the American Chemical Society)
  - PBT: Persistent, Bioaccumulative and Toxic
  - WVH: Very Persistent and Very Bioaccumulative
  - NOCES: National Institute for Occupational Safety and Health
  - ADR: Occupational Safety & Health
  - TRE: Toxicological Endpoints Limit
  - REL: Recommended Exposure Limit
- \* Data compared to the previous version altered.

**1 Identification**

Product identifier

Trade name: Algae Beads

Catalog or product number: 10049292, 10049286, 10049291

Application of the substance / the mixture Laboratory chemicals

Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Bio-Rad Laboratories, Life Science Group  
2000 Alfred Nobel Drive  
Hercules, California 94547

Information department: isg\_techserv\_us@bio-rad.com

Emergency telephone number:  
510-741-1000  
1(800)424-9300

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

(510)741-1000

**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.

**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: Void

Additional information For the wording of the listed risk phrases refer to section 15.

**4 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 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.

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**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 09/20/2017

Reviewed on 09/20/2017

Trade name: 10x CO<sub>2</sub> Indicator

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<b>11 Carcinogenic categories</b>	
· IARC (International Agency for Research on Cancer)	
· 64-17-5 ethanol	1
· ATP (National Toxicology Program)	
· None of the ingredients is listed	
· OSHA-Ca (Occupational Safety & Health Administration)	
· None of the ingredients is listed	
· Target organs: Not applicable.	

**12 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:** Generally not hazardous for water.
- **Results of PBT and vPvB assessment**
- PBT: Not applicable.
- vPvB: Not applicable.
- **Other adverse effects:** No further relevant information available.

**13 Disposal considerations**

- **Waste treatment methods**
- **Recommendation:** Dispose of waste in accordance to applicable national, regional, or local regulations.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

**14 Transport information**

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

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**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 09/20/2017

Reviewed on 09/20/2017

Trade name: 10x CO<sub>2</sub> Indicator

(Contd. of page 5)

· <b>Environmental hazards:</b>	
· <b>Marine pollutant:</b>	No
· <b>Special precautions for user</b>	Not applicable.
· <b>Transport in bulk according to Annex II of MARPOL/78 and the IBC Code</b>	Not applicable.
· <b>UN "Model Regulation":</b>	Void

**15 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.  
· **California Proposition 65:**  
· **Developmental Toxicity**  
64-17-5 ethanol
- **Carcinogenic categories**
- **EPA (Environmental Protection Agency)**  
None of the ingredients is listed.
- **TLV (Threshold Limit Value established by ACGIH)**  
64-17-5 ethanol A3
- **MAK (German Maximum Workplace Concentration)**  
64-17-5 ethanol 5
- **NIOSH-Ca (National Institute for Occupational Safety and Health)**  
None of the ingredients is listed.
- **National regulations**
- **Technical instructions (air):**

· <b>Class</b>	· <b>Share in %</b>
· <b>NA</b>	· 1-2.5

- **Water hazard class:** Generally not hazardous for water.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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Indication of any immediate medical attention and special treatment needed: No further relevant information available. (Contd. of page 1)

**5) Fire fighting measures**

- Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture: No further relevant information available.
- Advice for firefighters
- Protective equipment: No special measures required.

**6) Accidental release measures**

- Personal precautions, protective equipment and emergency procedures: Wear protective clothing.
- Environmental precautions: No special measures required.
- Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- 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.
- Protective Action Criteria for Chemicals

PAC-1:	10035-04-81 Calcium chloride dihydrate	15 mg/m <sup>3</sup>
PAC-2:	10035-04-81 Calcium chloride dihydrate	170 mg/m <sup>3</sup>
PAC-3:	10035-04-81 Calcium chloride dihydrate	1,100 mg/m <sup>3</sup>

**7) Handling and storage**

- Handling
- Precautions for safe handling: No special precautions are necessary if used correctly.
- 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: According to product specification
- 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.

**8) Exposure controls/personal protection**

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

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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. (Contd. of page 2)

- 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

**9) Physical and chemical properties**

Information on basic physical and chemical properties	
General information:	
Appearance:	Liquid
Form:	Green
Color:	Colorless
Odor:	Not determined
Odor threshold:	7
pH-value at 20 °C:	
Change in condition:	undetermined
Melting point/Softening 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.
Vapor pressure at 20 °C:	23 hPa
Density:	Not determined
Relative density:	Not determined
Vapor density:	Not determined
Evaporation rate:	Not determined.

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Trade name: **Algae Beads**

(Cont'd. of page 3)

Solubility in / Miscibility with Water:	Fully miscible
Partition coefficient (n-octanol/water):	Not determined.
Viscosity: dynamic; kinematic:	Not determined. Not determined.
Solvent content:	39.4 %
Water:	1.6 %
Solids content:	No further relevant information available.
Other information:	

**10. Stability and reactivity**

- Reactivity: No further relevant information available.
- 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

**11. Toxicological information**

- Information on toxicological effects
- Acute toxicity
- Primary irritant effect:
  - on the skin: No irritant effect.
  - on the eye: No irritant effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:
  - The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.
  - When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.
- Carcinogenic categories
  - IARC (International Agency for Research on Cancer)
    - None of the ingredients is listed.
  - NTP (National Toxicology Program)
    - None of the ingredients is listed.
  - OSHA-Ca (Occupational Safety & Health Administration)
    - None of the ingredients is listed.

(Cont'd. on page 5)

Trade name: **Algae Beads**

(Cont'd. of page 4)

- Target organs: Not applicable.

**12. 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: Generally not hazardous for water.
  - Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.
  - Other adverse effects: No further relevant information available.

**13. Disposal considerations**

- Waste treatment methods
- Recommendation: Dispose of waste in accordance to applicable national, regional, or local regulations.
- Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.

**14. Transport information**

UN-Number	Void
DOT, ADR, ADN, IMDG, IATA	Void
UN proper shipping name	Void
DOT, ADR, ADN, IMDG, IATA	Void
Transport hazard class(es)	Void
DOT, ADR, ADN, IMDG, IATA	Void
Class	Void
Packing group	Void
DOT, ADR, IMDG, IATA	Void
Environmental hazards:	No
Marine pollutant:	Not applicable.
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
UN "Model Regulation":	Void

(Cont'd. on page 6)

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(Cont'd. of page 5)

**5. Regulatory information**

Safety, health and environmental regulations/legislation specific for the substance or mixture  
SARA (Superfund Amendments and Reauthorization Act of 1986 - USA)

Section 302.306 (40CFR335.30 / 40CFR335.40)

None of the ingredients is listed.

Section 313 (40CFR372.65)

None of the ingredients is listed.

TSCA (Toxic Substances Control Act):

9005-32-7, Arylic acid

7732-18-5, water

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.

MOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

National regulations

Water hazard class: Generally not hazardous for water.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

**6. Other information**

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Diagnostic Group, Environmental Health and Safety, 4000 Alfred Nobel Drive, Hercules, California, 94547; 1(510) 724-7000

Date of preparation / last revision: 09/20/2017/-

Abbreviations and acronyms:

- ADP: Acute danger sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods)
- ADR: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation
- IATA: International Air Transport Association
- ACGIH: American Conference of Governmental Industrial Hygienists
- EN1303: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- PBT: Persistent, Bioaccumulative and Toxic
- PHB: very Persistent and very Bioaccumulative

(Cont'd. on page 7)

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Trade name: **Algae Beads**

(Cont'd. of page 6)

- NIOSH: National Institute for Occupational Safety
- OSHA: Occupational Safety & Health
- TLV: Threshold Limit Value
- PEL: Permissible Exposure Limit
- REL: Recommended Exposure Limit

\* Data compared to the previous version altered.

