

Safety Data Sheet acc. to ISO/DIS 11014

Printing date 04/07/2014

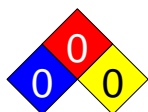
Reviewed on 04/07/2014

1 Identification

- **Product identifier**
- **Trade name:** Phosphate Dilution Tube
- **SDS p/n:** 265133-001 Rev. B
Part of Thermo Scientific item: Orion ACR095
- **CAS Number:**
 7732-18-5
- **EC number:**
 231-791-2
- **Relevant identified uses of the substance or mixture and uses advised against:** No further relevant information available.
- **Application of the substance / the mixture:** Reagent for water analysis
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
 Thermo Fisher Scientific
 22 Alpha Road
 Chelmsford, MA 01824
 USA
 phone: 978-232-6000
 Made in Germany
- CHEMTREC® 24 hr Emergency: US 800-424-9300; International 703-527-3887

2 Hazard(s) identification

- **Classification of the substance or mixture**
 The substance is not classified according to the Globally Harmonized System (GHS).
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC** none
- **Information concerning particular hazards for human and environment:** Not applicable.
- **Label elements**
- **GHS label elements** none
- **Hazard pictograms** none
- **Signal word** none
- **Hazard statements** none
- **WHMIS classification:** Not controlled under WHMIS.
- **NFPA ratings (scale 0 - 4)**



Health = 0
 Fire = 0
 Reactivity = 0

3 Composition/information on ingredients

- **Chemical characterization:** Substances
- **CAS No. Description**
 7732-18-5 water, distilled, conductivity or of similar purity
- **Identification number(s)**
- **EC number:** 231-791-2
- **Composition and Information on Ingredients:**

REACH - pre-registered substances

7732-18-5	water, distilled, conductivity or of similar purity
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4 First-aid measures

- **Description of first aid measures**
- **General information:** No special measures required.
- **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.

* 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.
- **Additional information**
Collect contaminated fire fighting water separately. It must not enter the sewage system.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Ambient fire may liberate hazardous vapours.

* 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** No special measures required.
- **Methods and material for containment and cleaning up:** No special measures required.
- **Reference to other sections**
No dangerous substances are released.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

* 7 Handling and storage

- **Precautions for safe handling** No special measures required.
- **Information about protection against explosions and fires:** The product is not flammable.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Protect from heat and direct sunlight.
- **Recommended storage temperature:** 20 °C +/- 5 °C (approx. 68°F)
- **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.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:** Not required.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Wash hands before breaks and at the end of work.
Do not eat, drink, smoke or sniff while working.
- **Breathing equipment:** Not required.
- **Protection of hands:** Not required.
- **Eye protection:** Not required.

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- **Body protection:** Not required.

* 9 Physical and chemical properties

• Information on basic physical and chemical properties	
• Odor Threshold:	Not applicable.
• Appearance:	
• Form:	Fluid
• Color:	Colorless
• Odor:	Odorless
• pH-value at 20 °C (68 °F):	7
• Melting point/Melting range:	0 °C (32 °F)
• Boiling point/Boiling range:	100 °C (212 °F)
• Freezing Point:	0 °C (32 °F)
• Flash point:	Not applicable.
• Ignition temperature:	Not applicable.
• Danger of explosion:	Product does not present an explosion hazard.
• Specific Gravity:	Not applicable.
• Density at 20 °C (68 °F):	1 g/cm ³ (8.345 lbs/gal)
• Vapour density	Not determined.
• Evaporation rate	Not determined.
• Solubility in / Miscibility with	
• Water:	Fully miscible.
• Coefficient of Water / Oil Distribution:	Not applicable.
• Viscosity:	
• Dynamic at 20 °C (68 °F):	0.952 mPas
• Organic solvents:	0.0 %
• Water:	100.0 %
• Other information	No further relevant information available.

* 10 Stability and reactivity

- **Reactivity**
- **Thermal decomposition / conditions to be avoided:** Stable at ambient temperature.
- **Possibility of hazardous reactions**
Violent reactions possible with:
The generally known reaction partners of water.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** none

* 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
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.

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- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

Substance is not listed.

- **NTP (National Toxicology Program)**

Substance is not listed.

- **Carcinogenicity:** NTP? IARC Monographs? OSHA Regulated? see chapter 8 / 15

- **Teratogenicity:** Not found.

- **Mutagenicity:** Not found.

- **Reproductive Toxicity:** Not found.

- **Synergistic Products:** None

- **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction):** no further data available

* 12 Ecological information

- **Toxicity**

- **Aquatic toxicity:** No further relevant information available.

- **Persistence and degradability** No further relevant information available.

- **Other information:** none

- **Bioaccumulative potential** No further relevant information available.

- **Behavior in environmental systems:**

- **Mobility in soil** No further relevant information available.

- **Additional ecological information:**

- **General notes:** none

- **Other adverse effects** No further relevant information available.

* 13 Disposal considerations

- **Uncleaned packagings:**

- **Recommendation:** Disposal must be made according to official regulations.

* 14 Transport information

- **UN-Number**

- DOT, ADR, ADN, IMDG, IATA none

- **UN proper shipping name**

- DOT, ADN, IMDG none

- ADR none

- IATA none

- **Transport hazard class(es)**

- DOT, ADR, ADN none

- Class none

- IMDG, IATA none

- Class None

- Packing group none

- DOT, ADR, IMDG, IATA none

- 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.

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· Canadian TDG Class:	none
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*15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
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· Section 355 (Extremely hazardous substances):

Substance is not listed.

· Section 313 (Specific toxic chemical listings):

Substance is not listed.

· TSCA (Toxic Substances Control Act):

Substance is listed.

· Proposition 65

· Chemicals known to cause cancer:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

· Chemicals known to cause developmental toxicity:

Substance is not listed.

· Canadian Ingredient Disclosure List

· Limit 0,1%

Substance is not listed.

· Limit 1%

Substance is not listed.

· Canadian Domestic Substances List (DSL)

Substance is listed.

· Canadian Non-domestic Substance List

Substance is not listed.

· EPA (Environmental Protection Agency)

Substance is not listed.

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

Substance is not listed.

· OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

· Australian Inventory of Chemical Substances

Substance is listed.

· European EINECS

Substance is listed.

· Standard for the Uniform Scheduling of Drugs and Poisons

Substance is not listed.

- This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all of the information required by the CPR

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

*16 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.

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- **Date of preparation / last revision** 04/07/2014 / 8

- **Abbreviations and acronyms:**

EC50: effective concentration, 50 percent (in vivo)

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

WHMIS: Workplace Hazardous Materials Information System (Canada)

- **Sources** Data arise from manufacturers' data sheets, reference works and literature.

- *** Data compared to the previous version altered.**

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