



# Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 11/20/2018

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## 1 Identification

### Product Identifier

**Trade name:** Orflo Diluent, Moxi Z Diluent

**Product Number:** MXA006

**Relevant identified uses of the substance or mixture and uses advised against:**

**Product Description:** Salts Media/Diluent for use with the Orflo Moxi Z System

### Details of the Supplier of the Safety Data Sheet:

#### Manufacturer/Supplier:

Orflo Technologies

P.O. Box 7438/260 Northwood Way, Ketchum, ID 83340

info@orflo.com

866-879-6694

www.orflo.com

#### Emergency telephone number:

208-928-6056

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## 2 Hazard(s) Identification

### Classification of the substance or mixture:

Mixture

Colorless; Clear; Liquid; Odorless

### Classification according to Directive 67/548/EEC or Directive 1999/45/EC

This product contains no hazardous constituents, or the concentration of all chemical constituents are below the regulatory threshold limits described by OSHA HazCom Standard 29 CFR 1910.1200 and the European Directive 91/112/EC.

### Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

### Label Elements

**GHS label elements:** Non-Regulated Material

**Hazard pictograms:** Non-Regulated Material

**Signal word:** Non-Regulated Material

**Hazard Statements:** Non-regulated Material

### Classification system

**NFPA ratings (scale 0-4)**



Health: 0

Flammability: 0

Reactivity: 0

### Other hazards

#### Results of PBT and vPvB assessment

**PBT:** Not applicable.

**vPvB:** Not applicable.

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## 3 Composition/Information on Ingredients

### Non-hazardous components:

9003-70-7 Solid polymer microspheres composed of Polystyrene divinylbenze (<.025%)

7647-14-5 Sodium Chloride (NaCl) (~0.8%)

7447-40-7 Potassium Chloride (KCl) (~.04%)

7558-79-4 Sodium Phosphate dibasic (~0.19%)

7732-18-5 Water (H<sub>2</sub>O) (>90%)

0122-99-6 2-Phenoxyethanol (C<sub>8</sub>H<sub>10</sub>O<sub>2</sub>) (<.35%)

### Chemical characterization: Mixtures

**Description:** Mixture of substances below with non-hazardous additions.

### Dangerous Components:



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026628228 Sodium azide (NaN<sub>3</sub>) (0.045%)  
007681494 Sodium Fluoride (Na(HF<sub>2</sub>)) (<.07%)

**Additional information:** The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

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## 4 First-Aid Measures

### Description of first aid measures:

**General information:** No special measures required.

**After inhalation:** Remove to fresh air if effects occur. If individual is not breathing, begin artificial respiration immediately and obtain medical attention

**After skin contact:** In case of contact, immediately wash skin with copious amounts of water for at least 15 minutes

**After eye contact:** In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes with eyelids open.

**After swallowing:** Wash mouth out with water. If irritation or discomfort occurs, contact physician immediately.

**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 info available.

## 5 Fire-Fighting Measures

**Flammable properties:** Nonflammable, aqueous solution

**Suitable extinguishing agents:** Use fire fighting measures that suit the environment.

**Special hazards arising from the substance or mixture:** No special hazards determined.

**Hazardous combustion:** No combustion products posing significant hazards are expected.

**Protective Equipment for Firefighters:** Self-contained breathing apparatus is recommended in all chemical fire situations.

## 6 Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures:** Not required.

### Environmental precautions:

Contain spill to prevent migrations

**Methods and material for containment and cleaning up:** No special measures required.

### 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.

## 7 Handling and Storage

**Precautions for safe handling:** No special measures required, however it is always good to protect skin and eyes by wearing suitable protective clothing, gloves and protective eyewear. Respiratory protection is not normally needed.

**Information about protection against explosions and fires:** No special measures required.

**Conditions for safe storage, including any incompatibilities:** None.

### Storage

**Requirements to be met by storerooms and receptacles:** Store in closed container. Keep refrigerated 2-8°C.

**Information about storage in one common storage facility:** Store away from oxidizing agents.

**Further information about storage conditions:** Store in cool, dry conditions in well sealed containers.

**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 section 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. Keep away from food, and beverages. Immediately remove all contaminated clothing and wash before reuse. Avoid contact with eyes and skin.

**Breathing equipment:** Not required.

**Protection of hands:** Chemical resistant gloves (i.e. nitrile, or equivalent)



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**Eye protection:** Safety glasses.  
**Body protection:** Protective work clothing (lab coat).

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## 9 Physical and Chemical Properties

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### Information on basic physical and chemical properties

#### General information

**Appearance:**

**Form:** Liquid

**Color:** Clear

**Odor:** Odorless

**Odor threshold:** Not determined.

**Change in condition:** Not determined.

**Melting point/Melting range:** Not determined.

**Boiling point/boiling range:** Not determined.

**Flash point:** Not determined.

**Flammability (solid, gas):** Not applicable.

**Ignition temperature:** Not determined.

**Decomposition temperature:** Not determined.

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

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

**Explosion limits:** Not determined.

**Vapor pressure @20C:** Not determined.

**Density @ 20C:** Not determined.

**Relative density:** Not determined.

**Evaporation rate:** Not determined.

**Solubility in water:** Not miscible.

**Partition coefficient:** Not determined.

**Viscosity:** Not determined.

**Solvent content:** Not determined.

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

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## 10 Stability and Reactivity

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**Reactivity:** No dangerous reactions known.

**Chemical stability:** Stable under normal conditions for use and storage. See Section 7.

**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:** Incompatible material: strong oxidizers such as lead, copper, gold, and silver.

**Hazardous decomposition products:** No dangerous decompositions known.

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## 11 Toxicological Information

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### Information of toxicological effects:

**Acute toxicity:**

**Primary irritant effect:**

**On the skin:** No irritating effect.

**On the eye:** No irritating effect.

**Sensitization:** No sensitizing effects known.

**Additional toxicological information:** The product is not subject to OSHA classification according to internally approved calculation methods for preparations. 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 listed.

**NTP (National Toxicology Program)**

None of the ingredients listed.

**OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients listed.

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## 12 Ecological Information

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**Toxicity:**

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

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

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

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

**Ecotoxial effects**

**Other information:** The ecological effects have not been thoroughly investigated, but currently none have been identified.

**Additional ecological information:**

**General notes:** Do not allow undiluted product or product that has not been neutralized 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.

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**13 Disposal Considerations**

**Waste treatment methods:**

**Recommendation:**

Smaller quantities can be disposed of with solid waste. This product is not considered a RCRA hazardous waste. Dispose of material in accordance with federal (40 CFR Part 261.33), state, and local environmental regulations.

**Uncleaned packagings**

**Recommendation:** Disposal must be made according to federal and state regulations.

**Recommended cleansing agent:** water, if necessary with cleansing reagents.

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**14 Transportation information**

**UN-Number**

**Dot, ADR, AND, IMDG, IATA:** Void

**UN proper shipping name**

**Dot, ADR, AND, IMDG, IATA:** Void

**Transport hazard class(es)**

**Dot, ADR, AND, IMDG, IATA:** Void

**Class**

**Packaging group**

**Dot, ADR, AND, 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.

**UN "Model Regulation":** Not applicable.

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**15 Regulatory Information**

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

**SARA Section 355 (extremely hazardous substances)**

None of the ingredients is listed.

**SARA Section 313 (specific toxic chemical listings)**

Diethylene Glycol Phenyl Ether is subject to reporting requirements of Section 313, Title III of Sara

**TSCA (Toxic Substances Control Act)**

7732-18-5 water

**CERCLA RG's, 40 CFR 302.4:** Sodium Phosphate, Dibasic is listed. Sodium Fluoride is listed.

**Massachusetts MSL:** Sodium Phosphate, Dibasic is listed. Sodium Fluoride is listed.

**New Jersey Dept of Health RTK List:** Sodium Phosphate, Dibasic is listed. Sodium Fluoride is listed. Diethylene Glycol Phenyl Ether is listed. 2-Phenoxyethanol is listed.

**Pennsylvania RTK:** Sodium Phosphate, Dibasic is listed. Sodium Fluoride is listed. Diethylene Glycol Phenyl Ether is listed. 20 Phenoxyethanol is listed.

**California Proposition 65 - Chemicals known to cause cancer**

None of the ingredients is listed.

**CANADA:**

**Ingredients on disclosure list:** Sodium, Diethylene Glycol Phenyl Ether, 2-Phenoxyethanol.

**Ingredients with unknown Toxicological Properties:** None

**Chemicals known to cause reproductive toxicity for females:**



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None of the ingredients is listed.

**Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

**Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

**Carcinogenic categories**

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

None of the ingredients is listed.

**GHS label elements** Void

**Hazard pictograms** Void

**Signal word** Void

**Hazard statements** Void

**Trade Name: Orflo Diluent, Moxi Z Diluent**

**National regulations**

**Water hazard class:** Generally not hazardous for water.

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

### 16 Other Information

ORFLO Technologies provides the information contained herein in good faith, but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose.

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**Trade name: Orflo Diluent, Moxi Z Diluent**

**Contact:** Technical Service Representative

**Date of preparation / last revision: 11/20/2018 / -**

**Abbreviations and acronyms:**

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

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)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety & Health Administration

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Ox. Liq. 1: Oxidizing liquids – Category 1

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1