

SAFETY DATA SHEET

1. Chemical Product and Company Identification

Description: pH/ORP Sensors with Polyacrylamide Gel
Product Code: 3-271X, 3-272X, 3-273X, 3-277X series pH/ORP
3-4630-11, 3-4630-21, 3-4630-31, 3-4632-11
Product Type: Gelled salt solution
Application: pH/ORP Sensors

Manufacturer/Supplier Information

Manufactured for and SDS prepared by:
Georg Fischer Signet LLC
3401 Aero Jet Ave.
El Monte, CA 91731

Date Prepared: 04/29/2015

For additional health, safety or regulatory information, call (626) 571-2770

**For Chemical Emergency
Spill Leak Fire Exposure or Accident
Call CHEMTREC Day or Night**

**DOMESTIC NORTH AMERICA 800-424-9300
INTERNATIONAL, CALL 703-527-3887 (collect calls accepted)**

2. Hazards 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.

Chemical	CAS No	% w/v
Water	7732-18-5	>55
Potassium Chloride	7447-40-7	<22
Polyacrylamide-co-methylene-bis-acrylamide	25034-58-6	<10
Lithium Chloride	7447-41-8	<1
Silver Chloride	7783-90-6	<1
Potassium Nitrate (277x probes only)	7757-79-1	<10%

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 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.

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

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.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Wear protective clothing.

Environmental precautions

Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up

Dispose contaminated material as waste according to item 13.

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

No special measures required.

Conditions for safe storage, including any incompatibilities

Storage Requirements to be met by storerooms:

According to product specification.

Information about storage in one common storage facility:

Not required.

Further information about storage conditions:

None.

Specific end use(s):

According to product specification.

8. Exposure Controls/Personnel Protection

Exposure controls

Personal protective equipment

General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed.

Protection of hands: Protective gloves.

Material of gloves: Synthetic gloves

Eye protection: Safety glasses

9. Physical and Chemical Properties

Information on basic physical and chemical properties of chemicals in sensor housing

General Information

Appearance:

Form:	Solid
Color:	Colorless
Odor:	Odorless
Odor threshold:	Not determined

pH-value at 20 °C: 6.5 – 7.0

Change in condition

Melting point/Melting range:	undetermined
Boiling point/Boiling range:	undetermined
Flash point:	Not applicable
Flammability (solid, gaseous):	Not determined
Ignition temperature:	400 °C
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 applicable
Evaporation rate:	Not applicable
Solubility in / Miscibility with Water:	Fully miscible
Partition coefficient (n-octanol/water):	Not determined

Viscosity

dynamic:	Not applicable
kinematic:	Not applicable

Solvent content

Organic solvents: 0.0 %
Water: 82.0 %

Solids content: 22.2 %

Other information No further relevant information available.

10. 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

11. Toxicological Information**Information on toxicological effects****Acute toxicity:****Primary irritant effect:**

on the skin: No irritant effect.

on the eye: 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.

Target organs: Not applicable.

12. Ecological Information

Toxicity

Aquatic toxicity: No further relevant information available

Persistence and degradability: No further relevant information available

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

13. Disposal Considerations

Waste treatment methods

Recommendation

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

Dispose of in accordance with international, federal, state and local regulations.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

14. Transportation 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.

15. Regulatory Information (Selected)

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.

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

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

16. Other Information

Disclaimer

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Revision

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Responsibility for SDS:

S.K. Wells

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