

SAFETY DATA SHEET

1. Chemical Product and Company Identification

Description: Product Code: Product Type: Application: Differential Salt Bridge 3864-0001 Gelled Salt Solution 2764, 2766, 2765 and 2767 Differential Sensors

Manufacturer/Supplier Information

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

Date Prepared: 11/29/18 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, REFER TO THE INFORMATION CONTAINED HEREIN AND CALL YOUR LOCAL GF OFFICE

2. Hazards Identification

GHS Classification: GHS Label Elements: Pictogram: GHS03



Hazard Statements: H272: May intensify fire; oxidizer.

Pictogram: GHS07



Hazard Statements: H302: Harmful if swallowed. H317: May cause an allergic skin reaction.

Pictogram: GHS08



Hazard Statements:

H340 May cause genetic defects. H350 May cause cancer. H361 Suspected of damaging fertility or the unborn child. H373 May cause damage to organs through prolonged or repeated exposure.

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



Hazard Statements: O; Oxidizing, R8: Contact with combustible material may cause fire.



Hazard Statements: T; Toxic, R45-46: May cause cancer. May cause heritable genetic damage.



Hazard Statements: Xn; Harmful, R22: Harmful if swallowed.



Hazard Statements: Xi; Irritant, R43: May cause sensitization by skin contact.

Information Concerning Particular Hazards for Human and Environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

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: Labelling According to EU Guidelines:	The product has been classified and marked in accordance with directives on		
Code Letter and Hazard Designation of Product:	hazardous materials. T; Toxic, O; Oxidizing		
Hazard-determining components of labeling: Acrylamide			
Risk phrases:	 45 May cause cancer. 46 May cause heritable genetic damage. 8 Contact with combustible material may cause fire. 22 Also harmful if swallowed. 43 May cause sensitization by skin contact. 		
Safety phrases:	 53 Avoid exposure - obtain special instructions before use. 24/25 Avoid contact with skin and eyes. 37/39 Wear suitable gloves and eye/face protection. 45 In case of accident or if you feel unwell, seek medical advice immediately. 60 This material and its container must be disposed of as hazardous waste. 		

NFPA Ratings (Scale 0 - 4)



Health = 2 Fire = 3 Reactivity = 0 The substance possesses oxidizing properties.

HMIS Ratings (Scale 0 - 4)



Health = *2Fire = 3 Reactivity = 0

Other Hazards:

Results of PBT and vPvB Assessment:

PBT: Not applicable **vPvB:** Not applicable

3. Composition/Information on Ingredients

Chemical Characterization:	Mixture
Description:	Mixture of the substances listed below with non-hazardous additions.

Acrylamide

CAS Number: 79-06-1 % w/v: 7-10%

Potassium Nitrate

CAS Number: 7757-79-1 % w/v: <22

Sodium Chloride

CAS Number: 7778-77-0 % w/v: <5

Nitric Acid

CAS Number: 1310-73-2 % w/v: <1

Dipotassium Peroxodisulfate

CAS Number: 7727-21-1 % w/v: <1%

N,N'-methylenediacrylamide

CAS Number: 110-26-9 % w/v: <1%

Water

CAS Number: 7732-18-5 % w/v: >60

SVHC:

Acylamide

CAS Number: 79-06-1

Additional Information: For the wording of the listed risk phrases refer to section 16.

4. First Aid Measures				
General Information:	Symptoms of poisoning may even occur after several hours; therefore medical			
Inhalation:	observation for at least 48 hours after the accident. Supply fresh air and to be sure call for a doctor. In case of unconsciousness place patient stably in side position for transportation.			
Skin Contact: Eye Contact: Ingestion: Most Important Symptoms an	Immediately wash with water and soap and rinse thoroughly. Rinse opened eye for several minutes under running water. Immediately call a doctor.			
(both acute and delayed):	No further relevant information available.			
Indication of Any Immediate M Attention and Special Treatme				
5. Fire Fighting Measures				
Suitable Extinguishing Agents	 CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. 			
Unsuitable Extinguishing Med	Jia: No information available			
Special Hazards Arising from	the Substance or Mixture: During heating or in case of fire poisonous gases are produced.			
Protective Equipment and Pre	ecautions for Firefighters: No special measures required.			
6. Accidental Release Measur	es			
Personal Precautions: Environmental Precautions:	Mount respiratory protective device. Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.			
Methods and Material for Containment and Clean Up:	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.			
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				
Handling:	Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols.			
Information about Protection against Explosions and Fires:	Keep respiratory protective device available.			
Requirements to be met by Storerooms and Receptacles:	No special requirements			
Information about Storage in One Common Storage Facility	<i>r</i> : Not required			

Further Information about Storage Conditions:	None		
Specific End Use(s):	No further relevant information available.		
8. Exposure Controls/Person	nel 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: 79-06-1 acrylamide		
PEL Long-term value: 0.3 mg/m ³ Skin REL Long-term value: 0.03 mg/r Skin; See Pocket Guide TLV Long-term value: 0.03* mg/ Skin;*inhalable fraction a	n³ App. A m³		
Additional information:	The lists that were valid during the creation were used as basis.		
Personal Protective Equipmen	<u>it</u>		
Hygiene Measures:	Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately.		
Respiratory Protection:	n case of brief exposure or low pollution use respiratory filter device. In case of ntensive or longer exposure use respiratory protective device that is independent of circulating air.		
Eye/Face Protection:	Tightly sealed goggles		
Skin and Body Protection: Material of Gloves:	Protective gloves. To avoid skin problems reduce the wearing of gloves to the required minimum. Only use chemical-protective gloves with CE-labeling of category III. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Nitrile rubber, NBR Natural rubber, NR Chloroprene rubber, CR The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.		
Penetration Time of Glove Material:	on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.		

9. Physical and Chemical Properties

Appearance:	
Form:	Solid gel
Color:	Colorless
Odor:	Odorless
Odor Threshold:	Not determined
pH-value at 20 °C:	6.5 – 7.0
Melting Point/Melting Range:	Undetermined
Boiling Point/Boiling Range:	Undetermined
Flash Point:	Not applicable
Flammability (solid, gaseous):	Not applicable
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
Solubility in / Miscibility	
With Water:	Fully miscible
Partition Coefficient	
(n-octanol/water):	Not determined
Viscosity:	
Dynamic:	Not determined
Kinematic:	Not determined
Other Information:	No further relevant information available.
10. Stability and Reactivity	
Thermal Decomposition: Possibility of Hazardous	No decomposition if used according to specifications.
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.
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11. Toxicological Information

Acute Toxicity: LD/LC50 values that are relevant for classification:

7757-79-1 Potassium Nitrate Oral LD50 3750 mg/kg (rat)

79-06-1 Acrylamide

Oral LD50 124 mg/kg (rat) Dermal LD50 400 mg/kg (rat)

7647-14-5 Sodium Chloride Oral LD50 3000 mg/kg (rat)					
Primary Irritant Effect: No irritating effect. On Skin: No irritating effect. On Eyes: No irritating effect. Sensitization: Sensitization possible through skin contact. Additional Toxicological Information: The product shows the following dangers according to internally approved calculation methods for preparations: Harmful, Irritant, Carcinogenic. The product can cause inheritable damage.					
Carcinogenic categories IARC (International Agency fo NTP (National Toxicology Pro					
12. Ecological Information					
Aquatic Toxicity: Persistence and Degradability: Bioaccumulation Potential: Mobility in Soil: General Notes:	No information available No information available No information available No information available Water hazard class 3 (Self-assessment): extremely 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 applicablevPvB:Not applicableOther adverse effects:No further relevant information available					
13. Disposal Considerations					
reachs	ot be disposed of together with household garbage. Do not allow product to sewage system. Dispose of in accordance with international, federal, state cal regulations.				
14. Transportation Information					
UN-Number: DOT, ADR, ADN, IMDG, IATA:	Void				
UN Proper Shipping Name: DOT, ADR, ADN, IMDG, IATA:	Void				
Transport Hazard Classes: DOT, ADR, ADN, IMDG, IATA Class:	Void				
Packing Group: DOT, ADR, IMDG, IATA:	Void				

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: 15. Regulatory Information	Not dangerous according to the above specifications.		
S.A.R.A. Section 355 (Extremely Hazardo	ous Substances):	79-06-1 acrylamide 7697-37-2 nitric acid	
S.A.R.A. Section 313 (Specific Toxic Chemical Listings):		79-06-1 acrylamide 7697-37-2 nitric acid	
TSCA (Toxic Substances Control Act):		All ingredients are listed.	
California Proposition 65: Chemicals known to cause cancer: 79-06-1 acrylamide Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed. Chemicals known to cause reproductive toxicity for males: 79-06-1 acrylamide Chemicals known to cause developmental toxicity: 79-06-1 acrylamide			
Cancerogenity Categories:			
EPA (Environmental Protection Agency):79-06-1 acrylamide B2TLV (Threshold Limit Value established by ACGIH):79-06-1 acrylamide A3MAK (German Maximum Workplace Concentration):79-06-1 acrylamide 2NIOSH-Ca (National Institute for Occupational Safety and Health):79-06-1 acrylamideOSHA-Ca (Occupational Safety & Health Administration):None of the ingredients is listed.			
Product Related Hazard Information:The product has been classified and marked in accordance with directives on hazardous materials.Hazard Symbols:T ToxicO OxidizingHazard-determining Components of Labeling:AcrylamideRisk Phrases:45 May cause cancer.46 May cause heritable genetic damage.8 Contact with combustible material may cause fire.22 Also harmful if swallowed.43 May cause sensitization by skin contact.Safety Phrases:53 Avoid exposure - obtain special instructions before use.24/25 Avoid contact with skin and eyes.37/39 Wear suitable gloves and eye/face protection.45 In case of accident or if you feel unwell, seek medical advice immediately.60 This material and its container must be disposed of as hazardous waste.			

National Regulations: Information about Limitation of Use:

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

Technical Instructions (Air): Class Share in % Water 72.9 II 7.7

Water Hazard Class: Chemical Safety Assessment: Water Hazard Class 3 (Self-assessment): Extremely hazardous for water. A Chemical Safety Assessment has not been carried out.

16. Disclaimer

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Revision

Date of latest revision:	11/29/2018
Responsibility for SDS:	S.K. Wells

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