

ACC# 93753

Print Date: 2/16/07  
Revision Date: 10/2/2008  
Version: 1**Safety Data Sheet**  
**Neg-50 Frozen Section Medium****Section 1 - Chemical Product and Company Identification****MSDS Name:**

Neg-50 Frozen Section Medium

**Catalog Numbers:**

6502, 6506

**Synonyms:**

None Known.

**Company Identification:**Richard Allan Scientific  
4481 Campus Drive  
Kalamazoo, MI 49008**Company Phone Number:**

800-522-7270

**Emergency Phone Number:**

800-424-9300

**CHEMTREC Phone Number, US:**

(800) 424-9300

**CHEMTREC Phone Number, Europe:**

(202) 483-7616

**Section 2 - Composition, Information on Ingredients**

CAS#	Chemical Name:	Percent	EINECS/ ELINCS	Hazard Symbols	Risk Phrases
7732-18-5	Dionized Water	83-84%	231-791-2		
9002-89-5	Polyvinyl alcohol	10-11	Not available		
25322-68-3	Polyethylene glycol	4-5	Not available		
590-29-4	Potassium formate	1	209-677-9		

**Section 3 - Hazards Identification****EMERGENCY OVERVIEW***Appearance: Clear liquid**Caution! May cause eye, skin, and respiratory tract irritation. The toxicological properties of this material have not been fully investigated.**Target Organs: No data found***Potential Health Effects**

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**Eye:**

May cause eye irritation.

**Skin:**

May cause skin irritation.

**Ingestion:**

May cause irritation of the digestive tract.

**Inhalation:**

May cause respiratory tract irritation.

**Chronic:**

No information found.

## Section 4 - First Aid Measures

**Eyes:**

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid.

**Skin:**

In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical aid if irritation develops and persists. Wash clothing before reuse.

**Ingestion:**

If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid.

**Inhalation:**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

**Notes to Physician:**

Treat symptomatically and supportively.

## Section 5 - Fire Fighting Measures

**General Information:**

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

**Extinguishing Media:**

Use water spray, dry chemical, carbon dioxide, or appropriate foam.

**Autoignition Temperature:**

Not available

**Explosion Limits:**

Lower: Not available      Upper: Not available

**Flash Point:**

Not available

**NFPA Rating:**

(estimated) Health: 1; Flammability: 0; Instability: 0

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#### Section 6 - Accidental Release Measures

**General Information:**

Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:**

Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Clean up spills immediately, observing precautions in the Protective Equipment section. Provide ventilation.

#### Section 7 - Handling and Storage

**Handling:**

Wash thoroughly after handling. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

**Storage:**

Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

#### Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:**

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

**Exposure Limits**

Chemical Name:	ACGIH	NIOSH	OSHA
Dionized Water	None listed	None listed	None listed
Polyvinyl alcohol	None listed	None listed	None listed
Polyethylene glycol	None listed	None listed	None listed
Potassium formate	None listed	None listed	None listed

**OSHA Vacated PELs**
**Personal Protective Equipment**
**Eyes:**

Wear chemical splash goggles.

**Skin:**

Wear appropriate protective gloves to prevent skin exposure.

**Clothing:**

Wear appropriate protective clothing to prevent skin exposure.

**Respirators:**

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

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#### Section 9 - Physical and Chemical Properties

**Physical State:** Liquid  
**Color:** Clear  
**Odor:** No odor  
**pH:** 7-9  
**Vapor Pressure:** No information found  
**Vapor Density:** No information found  
**Evaporation Rate:** No information found  
**Viscosity:** No information found  
**Boiling Point:** No information found  
**Freezing/Melting Point:** No information found  
**Decomposition Temperature:** No information found  
**Solubility in water:** No information found  
**Specific Gravity/Density:** No information found  
**Molecular Formula:** Solution  
**Molecular Weight:** No information found

#### Section 10 - Stability and Reactivity

**Chemical Stability:**

Stable under normal temperatures and pressures.

**Conditions to Avoid:**

Excess heat

**Incompatibilities with Other Materials**

Oxidizing agents, strong acids, bases

**Hazardous Decomposition Products**

Carbon monoxide, carbon dioxide

**Hazardous Polymerization**

Will not occur.

#### Section 11 - Toxicological Information

**RTECS:**

CAS# 7732-18-5: ZC0110000

CAS# 9002-89-5: TR8100000; TR8101000

CAS# 25322-68-3: TQ3500000; TQ3520000; TQ3560000; TQ3580000; TQ3600000; TQ3610000;  
TQ3620000; TQ3630000; TQ3650000; TQ3675000; TQ3700000; TQ3800000; TQ3850000; TQ4025000;  
TQ4026000; TQ4027000; TQ4028000; TQ4030000; TQ4040000; TQ4041000; TQ4050000; TQ4070000;  
TQ4100000; TQ4105000; TQ4110000; TQ4950000; TQ5090000; TR1579850; ZD2465300

CAS# 590-29-4: LQ9625000

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**LD50/LC50:**

CAS# 7732-18-5:

Oral, rat: LD50 = &gt;90 mL/kg.

CAS# 9002-89-5:

Oral, mouse: LD50 = 14700 mg/kg

Oral, mouse: LD50 = 14270 mg/kg

Oral, rat: LD50 = &gt;20 gm/kg

Oral, rat: LD50 = 23854 mg/kg.

CAS# 25322-68-3:

Draize test, rabbit, eye: 500 mg/24H Mild

Draize test, rabbit, eye: 100 uL Mild

Draize test, rabbit, eye: 500 mg Mild

Draize test, rabbit, eye: 500 mg Mild

Draize test, rabbit, eye: 500 mg Mild

Draize test, rabbit, eye: 500 mg Mild

Draize test, rabbit, eye: 500 mg/24H Mild

Draize test, rabbit, eye: 500 mg/24H Mild

Draize test, rabbit, eye: 500 mg Mild

Draize test, rabbit, eye: 500 mg/24H Mild

Draize test, rabbit, skin: 500 mg/24H Mild

Draize test, rabbit, skin: 500 mg/24H Mild

Draize test, rabbit, skin: 500 mg Mild

Oral, mouse: LD50 = 34 gm/kg

Oral, mouse: LD50 = 31 gm/kg

Oral, mouse: LD50 = 28915 mg/kg

Oral, mouse: LD50 = 36 gm/kg

Oral, rabbit: LD50 = 17300 mg/kg

Oral, rabbit: LD50 = 76 gm/kg

Oral, rabbit: LD50 = 14 gm/kg

Oral, rabbit: LD50 = 17300 mg/kg

Oral, rabbit: LD50 = 26800 mg/kg

Oral, rabbit: LD50 = 19 gm/kg

Oral, rabbit: LD50 = 28900 mg/kg

Oral, rabbit: LD50 = 76 gm/kg

Oral, rat: LD50 = 28 gm/kg

Oral, rat: LD50 = 31640 mg/kg

Oral, rat: LD50 = 27500 mg/kg

Oral, rat: LD50 = 22 gm/kg

Oral, rat: LD50 = 30200 mg/kg

Oral, rat: LD50 = 600 mg/kg

Oral, rat: LD50 = 30 gm/kg

Oral, rat: LD50 = 32 gm/kg

Oral, rat: LD50 = 1054 mg/kg

Oral, rat: LD50 = 51310 mg/kg

Oral, rat: LD50 = &gt;4 gm/kg

Oral, rat: LD50 = 44200 mg/kg

**Carcinogenicity:**

CAS# 7732-18-5: Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

CAS# 9002-89-5: Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

CAS# 25322-68-3: Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

CAS# 590-29-4: Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

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**Neg-50 Frozen Section Medium****Epidemiology:**

No information found

**Teratogenicity:**

No information found

**Reproductive:**

No information found

**Mutagenicity:**

No information found

**Neurotoxicity:**

No information found

**Other:**

The toxicological properties have not been fully investigated.

**Section 12 - Ecological Information**

No information found

**Section 13 - Disposal Considerations**

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Part 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

**RCRA P Series Wastes**

None of the components are on this list.

**RCRA U Series Wastes**

None of the components are on this list.

**Section 14 - Transport Information****US DOT****Canadian TDG****Proper Shipping Name:** Not Regulated

Not Regulated

**Hazard Class:****UN Number:****Packing Group:**

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**Neg-50 Frozen Section Medium****Section 15 - Regulatory Information****US Federal****TSCA**

CAS# 7732-18-5 is listed on the TSCA Inventory.  
CAS# 9002-89-5 is listed on the TSCA Inventory.  
CAS# 25322-68-3 is listed on the TSCA Inventory.  
CAS# 590-29-4 is listed on the TSCA Inventory.

**Health and Safety Reporting List**

None of the components are on this list.

**Chemical Test Rules**

None of the components are on this list.

**TSCA Section 12b**

None of the components are on this list.

**TSCA Significant New Use Rule (SNUR)**

None of the components are on this list.

**CERCLA Hazardous Substances and corresponding RQs**

None of the components are on this list.

**SARA Section 302 Extremely Hazardous Substances**

None of the components are on this list.

**SARA Hazard Categories**

CAS# 9002-89-5: immediate, delayed.  
CAS# 25322-68-3: Not controlled.

**SARA Section 313**

None of the components are on this list.

**Clean Air Act - Hazardous Air Pollutants (HAPs)**

None of the components are on this list.

**Clean Air Act - Class 1 Ozone Depletors**

None of the components are on this list.

**Clean Air Act - Class 2 Ozone Depletors**

None of the components are on this list.

**Clean Water Act - Hazardous Substances**

None of the components are on this list.

**Clean Water Act - Priority Pollutants**

None of the components are on this list.

**Clean Water Act - Toxic Pollutants**

None of the components are on this list.

**OSHA - Highly Hazardous**

None of the components are on this list.

**OSHA - Specifically Regulated Chemicals**

None of the components are on this list.

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Polyethylene glycol can be found on the following state Right-to-Know lists: Minnesota.  
No information found

**California Prop 65**

None of the components are on this list.

**California No Significant Risk Level**

None of the components are on this list.  
None of the components are on this list.  
None of the components are on this list.  
None of the components are on this list.

**European/International Regulations****European Labelling in Accordance with EC Directives:**

Hazard Symbols: None listed  
Risk Phrases: None listed  
Safety Phrases: S 24/25 Avoid contact with skin and eyes.

**WGK (Water Danger/Protection)**

No information found

**United Kingdom Occupational Exposure Limits**

No information found

**United Kingdom Maximum Exposure Limits**

No information found

**Canadian DSL/NDSL**

CAS# 7732-18-5 is listed on Canada's DSL List.  
CAS# 9002-89-5 is listed on Canada's DSL List.  
CAS# 25322-68-3 is listed on Canada's DSL List.  
CAS# 590-29-4 is listed on Canada's DSL List.

**Canadian WHMIS Classifications**

No information found  
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

**Canadian Ingredient Disclosure List**

No information found

**Section 16 - Other Information**

Color information has been  
MSDS Creation Date: December 1, 2005  
Revision Date: October 2, 2008



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*This SDS is intended for review and guidance in the receipt, storage, handling, use and disposal of product purchased from us, and for no other purpose. Use this product only as directed and in accordance with applicable instructions and warnings provided with the product. Please consult your institution's policies regarding use of this product. If you have obtained this SDS other than in connection with the supply of this product from us, this SDS should be consulted for general information only, and should not be relied upon for any purpose. As with the use of all hazardous materials, you should in all instances follow the guidance of the SDS provided or available with the specific product purchased.*