

# SAFETY DATA SHEET

Revision Date 18-May-2015 WAI1 - AGHS - OSHA Revision Number 3

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product Identifier** 

Product Name Optimum Results™ D Reference Filling Solution

Product Number(s) 900063

Pure substance/mixture Mixture

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

Recommended Use Use as laboratory reagent

Uses advised against No Information available

Manufacturer/Supplier Thermo Fisher Scientific©

Water and Lab Products

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Made in USA

Emergency Telephone 24 Hour Emergency Phone Number

**CHEMTREC®** 

Within USA and Canada: 1-800-424-9300 Outside USA and Canada: 1-703-527-3887

(collect calls accepted)

Product Number(s) 900063

**Document No. 270634-001** 

Solution

# 2. HAZARDS IDENTIFICATION

# Classification

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Carcinogenicity Category 1B

### **Label Elements**

**Emergency Overview** 

Danger

### **Hazard Statements**

May cause cancer



**Appearance** Clear

Physical State Liquid

Odor None

Revision Date 18-May-2015

Safety data sheet available on request

# **Precautionary Statements**

Do not handle until all safety information has been read and understood.

### Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

#### Response

IF exposed or concerned: Get medical attention/advice

#### Storage

Store locked up

#### Disposal

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

No information available

# Other Information

No information available

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component CAS-No Weight % Trade Secret
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Product Name Optimum Results™ D Reference Filling

Solution

7-70-1 10 - 20%	*
5	'E7 70 1 1 10 200

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

## 4. FIRST AID MEASURES

#### First aid measures

General Advice Use first aid treatment according to the nature of the injury. Get medical attention

immediately if symptoms occur. Show this safety data sheet to the doctor in attendance.

Revision Date 18-May-2015

**Eye Contact** Rinse thoroughly with plenty of water, also under the eyelids. Obtain medical attention.

Skin Contact Wash off immediately with soap and plenty of water for at least 15 minutes while removing

all contaminated clothing and shoes. If skin reactions occur, contact a physician.

**Inhalation** Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, obtain medical

attention.

**Ingestion** Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting. Call a

physician or Poison Control Center immediately.

mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper

respiratory medical device.

Most important symptoms and effects, both acute and delayed

Most important symptoms/effects No information available

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically

# 5. FIRE-FIGHTING MEASURES

#### **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### Unsuitable Extinguishing Media

No information available

### **Specific Hazards Arising from the Chemical**

No information available

**Explosion Data** 

Sensitivity to Mechanical Impact None Sensitivity to Static Discharge None

#### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

# 6. ACCIDENTAL RELEASE MEASURES

# Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions Use personal | Environmental Precautions Beware of vap

Use personal protective equipment. Refer to Section 8. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in

low areas.

Product Number(s) 900063 Document No. 270634-001

Product Name Optimum Results™ D Reference Filling Revision Date 18-May-2015

Solution

### Methods and Material for Containment and Cleaning Up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Cleaning Up**Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

# 7. HANDLING AND STORAGE

# **Precautions for Safe Handling**

Handling To avoid risks to human health and the environment, comply with the instructions for use

Wear personal protective equipment

Avoid breathing dust/fume/gas/mist/vapours/spray Ensure adequate ventilation, especially in confined areas

### Conditions for Safe Storage, Including any Incompatibilities

Storage Keep container tightly closed in a dry and well-ventilated place

Store at room temperature in the original container

Keep away from direct sunlight

Incompatible Products No information available

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits

established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering Measures Showers

Eyewash stations Ventilation systems

#### Individual protection measures, such as personal protective equipment

**Eye/face Protection** Wear chemical splash goggles. If splashes are likely to occur, wear:. Face-shield.

**Skin and Body Protection** Wear protective gloves/clothing.

Respiratory Protection None required under normal usage. In case of inadequate ventilation wear respiratory

protection.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical StateLiquidAppearanceClearOdorNone

Odor Threshold No information available

**pH Range** 5.0 - 8.0

Property Values Remarks • Method

Melting point/freezing pointNo information availableBoiling Point/Range~ 100 °C / 212 °F

Flash Point (High in °C) N/A

Product Name Optimum Results™ D Reference Filling Revision Date 18-May-2015

Solution

**Evaporation Rate**No information available **Flammability (solid, gas)**No information available

Flammability Limit in Air

Upper flammability limit:
Lower flammability limit:
Vapor pressure
Vapor Density
Specific Gravity

No information available
No information available
No information available
No information available

Water Solubility Soluble in water

Solubility in other solvents

Partition coefficient

No information available
No information available

**Autoignition Temperature** 

Decomposition TemperatureNo information availableKinematic ViscosityNo information availableDynamic viscosityNo information availableExplosive PropertiesNo information availableOxidizing PropertiesNo information available

#### Other Information

Softening Point
Molecular Weight
VOC Content(%)
Density
No information available

# 10. STABILITY AND REACTIVITY

# Reactivity

No Information available

#### **Chemical Stability**

Stable under normal conditions

#### **Possibility of Hazardous Reactions**

None under normal processing

### **Conditions to Avoid**

Extremes of temperature and direct sunlight

### **Incompatible Materials**

No information available

#### **Hazardous Decomposition Products**

Thermal decomposition can lead to release of irritating gases and vapors

# 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

Inhalation No information available

Eye Contact No information available

**Skin Contact** No information available

Ingestion No information available

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Potassium Nitrate	= 3015 mg/kg (Rat)	-	-
7757-79-1			

Product Name Optimum Results™ D Reference Filling Revision Date 18-May-2015

Solution

# Information on Toxicological Effects

Symptoms No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available

Mutagenic Effects No information available

**Carcinogenicity** No information available.

Reproductive Effects No information available

STOT - single exposure No information available

STOT - repeated exposure No information available

Aspiration hazard No information available

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 30150 mg/kg

# 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

10% of the mixture consists of components(s) of unknown hazards to the aquatic environment

### Persistence and Degradability

No information available

# **Bioaccumulation/ Accumulation**

No information available

#### **Mobility**

No information available.

# Other adverse effects

No information available

# 13. DISPOSAL CONSIDERATIONS

# Waste treatment methods

Waste Disposal Methods Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated Packaging Improper disposal or reuse of this container may be dangerous and illegal.

Component	CAWAST	
Potassium Nitrate	Ignitable	
7757-79-1	Reactive	

Revision Date 18-May-2015

**Product Name** 

Optimum Results<sup>TM</sup> D Reference Filling

Solution

# 14. TRANSPORT INFORMATION

**DOT** Not regulated

TDG Not regulated

MEX Not regulated

ICAO Not regulated

IATA Not regulated

IMDG/IMO Not regulated

RID Not regulated

ADR Not regulated

ADN Not regulated

# 15. REGULATORY INFORMATION

**International Inventories** 

USINV Complies
CANINV Complies
EINECS/ELINCS Complies
ENCS Does not Comply

IECSC Complies
KECL Complies
PICCS Complies
AICS Complies

USINV/ TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

CANINV/ DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**ENCS** - Japanese Existing and New Chemical Substances

IECSC - Chinese Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

# **U.S. Federal Regulations**

### **SARA 313**

Component	SARA 313 - Threshold Values %
Potassium Nitrate - 7757-79-1	1.0

# SARA 311/312 Hazardous

Categorization

Acute Health Hazard

Chronic Health Hazard

No
Fire Hazard

No
Sudden Release of Pressure Hazard

No
Reactive Hazard

No

# **Clean Water Act**

Not applicable

Product Name Optimum Results™ D Reference Filling

Solution

### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

# U.S. State Regulations

### **California Proposition 65**

This product does not contain any Proposition 65 chemicals

#### State Right-to-Know

Component	New Jersey	Massachusetts	Pennsylvania
Potassium Nitrate 7757-79-1	X	Х	Х

### U.S. EPA Label Information

No information available

# **16. OTHER INFORMATION**

Prepared By Environmental, Health and Safety

Prepared For Thermo Fisher Scientific Inc.©

Issue Date

No information available

Revision Date 18-May-2015

**Expiration Date** SDS is valid 3 years from revision date. Contact wai.techservbev@thermofisher.com for

the latest revision.

Reason for revision Update to CLP Format

# **Disclaimer**

IMPORTANT: The information contained in this SDS is correct to the best of our knowledge as of the issue date (or subsequent revision date, if any), and is to be used only as a guide. This SDS does not constitute a guarantee (express or implied) of any kind and we make no warranties of any kind as to the accuracy or completeness of the information contained herein or the merchantability or fitness of the product or this information for a particular purpose. It is the responsibility of each individual buyer/user to determine the suitability of this information and the product for its intended purposes. Product sales are subject to Thermo Fisher Scientifics standard terms and conditions of sale. This information relates only to the designated product as shipped and may not be valid if the product is used in combination with any other materials or is not used in accordance with our instructions, or is altered in any way. It is the responsibility of the buyer/user to ensure that its activities comply with all applicable government requirements. Since conditions of use of the product are not under direct control of Thermo Fisher Scientific, it is the duty of the buyer/user to determine the necessary conditions for the safe use of the product. Thermo Fisher Scientific will not be liable for any injuries or damages resulting from handling, use, misuse or contact with the product.

**End of Safety Data Sheet** 

Revision Date 18-May-2015