

MOEL's Public Notice No. 2016-19 (Standards for Classification and Labeling of Chemical Substances and Safety Data Sheets)

WAI4 - KGHS - KOREAN

Issue Date 05-Sep-2019

Revision Date 05-Sep-2019

Revision Number 1

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### Product Identifier

**Product Name** INTERCO ION EXCH K+ (9319)

**Product No** 219607-A01

**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

### **Supplier**

Fisher Scientific Korea	Thermo Fisher Scientific©
D5,D6, Incheon Airport Logistics	Water and Lab Products
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Jung-Gu, Incheon 400-340	
Tel: +82-2-6196-5500	
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### **E-mail address**

Chem.KR@thermofisher.com info.water@thermo.com

### Emergency Telephone Number

**Emergency telephone:** Medical: +(82) 070-7686-0086 or + 1-703-741-5970  
 CHEMTREC: 1-800-424-9300 or + 1-703-527-3887  
 Korea: 00-308-13-2549 (24 hours a day, 7 days a week)

Made in USA

## SECTION 2: HAZARDS IDENTIFICATION

### Classification of the substance or mixture

#### Physical hazards

Based on available data, the classification criteria are not met

#### Health hazards

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Based on available data, the classification criteria are not met

## **Environmental hazards**

Based on available data, the classification criteria are not met

## **Label Elements**

## **Other Hazards**

## **NFPA**

Health  
0

Flammability  
0

Instability  
0

Physical hazards  
N/A

## **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

### **3.2. Mixtures**

Component	Common Name	CAS-No	Index No.	Weight %
Di(2-ethylhexyl) Sebacate	No information available	122-62-3	KE-09405	80 - 90
o-Nitrophenyl Octyl Ether	No information available	37682-29-4	Not listed	>=5 - <10
Valinomycin	No information available	2001-95-8	Not listed	1 - 1.5

## **SECTION 4: FIRST AID MEASURES**

### **First aid measures**

#### **General Advice**

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

#### **Eye Contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

#### **Skin Contact**

Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.

#### **Inhalation**

Move to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.

#### **Ingestion**

Do not induce vomiting. Call a physician or Poison Control Center immediately.

#### **Self-Protection of the First Aider**

No special precautions required.

### **Most important symptoms and effects, both acute and delayed**

#### **Most important symptoms and**

None reasonably foreseeable

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effects

## Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically

## **SECTION 5: FIREFIGHTING 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. Thermal decomposition can lead to release of irritating gases and vapors.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### **Personal Precautions, Protective Equipment and Emergency Procedures**

**Personal Precautions** Ensure adequate ventilation. Use personal protective equipment. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas.

**Environmental Precautions** Should not be released into the environment. See Section 12 for additional ecological information.

### **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.

## **SECTION 7: HANDLING AND STORAGE**

### **Precautions for Safe Handling**

**Handling** Wear personal protective equipment  
Use only under a chemical fume hood  
Do not breathe vapors or spray mist  
Do not get in eyes, on skin, or on clothing  
Do not ingest

### **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

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

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## Control Parameters

Component	CAS-No	Korea	ACGIH TLV	OSHA PEL
Di(2-ethylhexyl) Sebacate	122-62-3	Not listed	Not listed	Not listed
o-Nitrophenyl Octyl Ether	37682-29-4	Not listed	Not listed	Not listed
Valinomycin	2001-95-8	Not listed	Not listed	Not listed

Component	CAS-No	European Union	The United Kingdom	Germany
Di(2-ethylhexyl) Sebacate	122-62-3	Not listed	Not listed	Not listed
o-Nitrophenyl Octyl Ether	37682-29-4	Not listed	Not listed	Not listed
Valinomycin	2001-95-8	Not listed	Not listed	Not listed

## Biological Exposure Indices

Component	CAS-No	Biological Exposure Indices
Di(2-ethylhexyl) Sebacate	122-62-3	Not listed
o-Nitrophenyl Octyl Ether	37682-29-4	Not listed
Valinomycin	2001-95-8	Not listed

## Appropriate engineering controls

**Engineering Measures** None under normal use conditions

## Individual protection measures, such as personal protective equipment

**Personal protective equipment** Use only those certified by the Korea Occupational Safety and Health Administration.

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

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

**Respiratory Protection** None under normal use conditions. In case of inadequate ventilation wear respiratory protection.

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

**Environmental exposure controls** No information available

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical State	Viscous liquid Liquid
Appearance	Clear yellow
Odor	Ether/Solvent
Odor Threshold	No information available
pH	5
PH Range	3.5-6.5

Property	Values	Remarks • Method
Melting point/freezing point	No information available	
Boiling Point/Range	No information available	
Flash Point (High in °C)	N/A	
Evaporation Rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor pressure	No information available	
Vapor Density	No information available	

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Specific Gravity	No information available
Water Solubility	Soluble in water
Solubility in other solvents	No information available
Partition coefficient	No information available
Autoignition Temperature	-
Decomposition Temperature	No information available
Kinematic viscosity	No information available
Dynamic viscosity	No information available
Explosive Properties	No information available
Oxidizing Properties	No information available

## Other Information

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

## SECTION 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.

## SECTION 11: TOXICOLOGICAL INFORMATION

### Product Information

#### Information on likely routes of exposure

Inhalation	Not an expected route of exposure.
Ingestion	No known effect based on information supplied.
Eyes	Not an expected route of exposure.
Skin	No known effect based on information supplied.

#### 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

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<b>Carcinogenicity</b>	No information available.
<b>Reproductive Effects</b>	No information available
<b>STOT - single exposure</b>	No information available
<b>STOT - repeated exposure</b>	No information available
<b>Target Organs</b>	None known.
<b>Aspiration hazard</b>	No information available

## Numerical measures of toxicity - Product Information

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

<b>ATEmix (oral)</b>	4 mg/kg
<b>ATEmix (dermal)</b>	5 mg/kg

## **SECTION 12: ECOLOGICAL INFORMATION**

### Ecotoxicity

100% 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

## **SECTION 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.

## **SECTION 14: TRANSPORT INFORMATION**

**Road and Rail Transport** Not Regulated

**IATA** Not regulated

**IMDG/IMO** Not regulated  
**Marine Pollutant** Not Applicable

**Special Precautions for User** No special precautions required

## **SECTION 15: REGULATORY INFORMATION**

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

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Legend: X - Listed '-' - Not Listed

## International Inventories

Component	CAS-No	KECL	TSCA	EINECS	IECSC	DSL	NDSL	PICCS	ENCS	AICS
Di(2-ethylhexyl) Sebacate	122-62-3	KE-09405	X	204-558-8	X	X	-	X	X	X
o-Nitrophenyl Octyl Ether	37682-29-4	-	X	253-623-7	-	-	X	-	-	-
Valinomycin	2001-95-8	-	X	217-896-6	-	-	X	-	-	-

Component	CAS-No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Di(2-ethylhexyl) Sebacate	122-62-3	Not applicable	Not applicable	Not applicable	Not applicable
o-Nitrophenyl Octyl Ether	37682-29-4	Not applicable	Not applicable	Not applicable	Not applicable
Valinomycin	2001-95-8	Not applicable	Not applicable	Not applicable	Not applicable

Component	CAS-No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential
Di(2-ethylhexyl) Sebacate	122-62-3	Listed	Not applicable	Not applicable
o-Nitrophenyl Octyl Ether	37682-29-4	Not applicable	Not applicable	Not applicable
Valinomycin	2001-95-8	Not applicable	Not applicable	Not applicable

## Korean National Regulations

Component	CAS-No	Act on Registration and Evaluation of Chemical Substances (K-REACH)	Authorised Chemicals	Existing Substances Subject to Registration
Di(2-ethylhexyl) Sebacate	122-62-3	Annex 1 - KE-09405	Not applicable	Not applicable
o-Nitrophenyl Octyl Ether	37682-29-4	Not applicable	Not applicable	Not applicable
Valinomycin	2001-95-8	Not applicable	Not applicable	Not applicable

Component	CAS-No	Chemical Control Act - Toxic Chemicals	Chemical Control Act - Prohibited Chemicals	Chemical Control Act - Use Restricted Chemicals
Di(2-ethylhexyl) Sebacate	122-62-3	Not applicable	Not applicable	Not applicable
o-Nitrophenyl Octyl Ether	37682-29-4	Not applicable	Not applicable	Not applicable
Valinomycin	2001-95-8	Not applicable	Not applicable	Not applicable

Component	CAS-No	Chemical Control Act - Accident Precaution Chemicals (% in mixtures)	Chemical Control Act - Accident Precaution Chemicals - Quantity limits Storage (% in mixtures)	Chemical Control Act - Accident Precaution Chemicals - Quantity limits Manufacture/Use (% in mixtures)
Di(2-ethylhexyl) Sebacate	122-62-3	Not applicable	Not applicable	Not applicable
o-Nitrophenyl Octyl Ether	37682-29-4	Not applicable	Not applicable	Not applicable
Valinomycin	2001-95-8	Not applicable	Not applicable	Not applicable

Component	CAS-No	Waste Control Law	Ministry of Environment - CMR risk	Ministry of Environment - Critically Controlled Substance
Di(2-ethylhexyl) Sebacate	122-62-3	Not applicable	Not applicable	Not applicable
o-Nitrophenyl Octyl Ether	37682-29-4	Not applicable	Not applicable	Not applicable
Valinomycin	2001-95-8	Not applicable	Not applicable	Not applicable

Component	CAS-No	ISHA - Harmful Agents Subject to Work Environment Monitoring	ISHA - Prohibited substances	ISHA - Substances requiring permission
Di(2-ethylhexyl) Sebacate	122-62-3	Not applicable	Not applicable	Not applicable
o-Nitrophenyl Octyl Ether	37682-29-4	Not applicable	Not applicable	Not applicable
Valinomycin	2001-95-8	Not applicable	Not applicable	Not applicable

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Component	CAS-No	ISHA - Substances subject to control	ISHA - Harmful Agents Requiring Health Examination	ISHA - Permissible Exposure Limits
Di(2-ethylhexyl) Sebacate	122-62-3	Not applicable	Not applicable	Not applicable
o-Nitrophenyl Octyl Ether	37682-29-4	Not applicable	Not applicable	Not applicable
Valinomycin	2001-95-8	Not applicable	Not applicable	Not applicable

Component	CAS-No	ISHA - Subject to Process Safety Reports (minimum quantity)	ISHA - Threshold Limit Values (TLVs) Chemicals	ISHA - Special management materials
Di(2-ethylhexyl) Sebacate	122-62-3	Not applicable	Not applicable	Not applicable
o-Nitrophenyl Octyl Ether	37682-29-4	Not applicable	Not applicable	Not applicable
Valinomycin	2001-95-8	Not applicable	Not applicable	Not applicable

**National Fire Association - Dangerous Substances** Minimum quantity requiring a permit

Component	CAS-No	Class 1 - Oxidising solids	Class 2 - Flammable solid	Class 3 - Spontaneously Combustible Substances and Dangerous Substances When Wet	Class 4 - Flammable liquids	Class 5 - Self-reactive substances	Class 6 - Oxidising liquids
Di(2-ethylhexyl) Sebacate	122-62-3	Not applicable	Not applicable	Not applicable	6. Group 4 Petroleum 6000 L	Not applicable	Not applicable
o-Nitrophenyl Octyl Ether	37682-29-4	Not applicable	Not applicable	Not applicable	5. Group 3 Petroleum (Insoluble) 2000 L	Not applicable	Not applicable
Valinomycin	2001-95-8	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

## Control Parameters

Component	CAS-No	Korea	Biological Exposure Indices
Di(2-ethylhexyl) Sebacate	122-62-3	Not listed	Not listed
o-Nitrophenyl Octyl Ether	37682-29-4	Not listed	Not listed
Valinomycin	2001-95-8	Not listed	Not listed

## US Management Information

OSHA - Occupational Safety and Health Administration

Not applicable

Component	CAS-No	Specifically Regulated Chemicals	Highly Hazardous Chemicals
Di(2-ethylhexyl) Sebacate	122-62-3	Not applicable	Not applicable
o-Nitrophenyl Octyl Ether	37682-29-4	Not applicable	Not applicable
Valinomycin	2001-95-8	Not applicable	Not applicable

## CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	CAS-No	CERCLA EHS RQs	Hazardous Substances RQs	SARA 313 - Threshold Values %
Di(2-ethylhexyl) Sebacate	122-62-3	Not applicable	Not applicable	Not applicable
o-Nitrophenyl Octyl Ether	37682-29-4	Not applicable	Not applicable	Not applicable
Valinomycin	2001-95-8	1000 lb	Not applicable	Not applicable

## CLP Classification - Regulation (EC) No 1272/2008

Based on available data, the classification criteria are not met.



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## SECTION 16: OTHER INFORMATION

Prepared By	Regulatory Affairs
Prepared For	Thermo Fisher Scientific Inc.©
Issue Date	05-Sep-2019
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Reason for revision	Initial Release.

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#### Disclaimer

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**End of Safety Data Sheet**