

## 1 Identification of substance

- **Product details**
- **Trade name:** B-341/342/343 Standard Solution Y043
- **Part Number:** 320053532 (90880012000)
- **Other Part Numbers:**
- **Application of the substance / the preparation** Calibration for NO<sub>3</sub>- electrode
- **Manufacturer/Supplier:**  
 Manufacturer:  
 HORIBA, Ltd.  
 2 Miyanohigashi, Kisshoin,  
 Minami-ku Kyoto, Japan, KYOTO  
 601-8510 JAPAN  
 Supplier:  
 Horiba Instruments Inc  
 17671 Armstrong Ave  
 Irvine, CA 92614
- **Information department:** Water Quality Department
- **Emergency information:**  
 During normal Business Hours: 800-446-7422 (949-250-4811)  
 During Holidays and after Business Hours: Chemtrec (800) 424-9300

## 2 Composition/Data on components

- **Chemical characterization:**
- **Identification number(s)**
- **EINECS Number:** 231-818-8      potassium nitrate
- **Chemical characterization**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

7757-79-1	potassium nitrate	Nearly 0.3%
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## 3 Hazards identification

- **Hazard description:** Not applicable.
- **Information pertaining to particular dangers for man and environment:**  
 The product does not have to be labelled due to the calculation procedure of international guidelines.
- **Classification system:**  
 The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
- **NFPA ratings (scale 0 - 4)**



Health = 0  
Fire = 0  
Reactivity = 0

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· *HMIS-ratings (scale 0 - 4)*

HEALTH	0	Health = 0
FIRE	0	Fire = 0
REACTIVITY	0	Reactivity = 0

· *GHS label elements Void*

#### 4 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: If symptoms persist consult doctor.*

#### 5 Fire fighting measures

- *Suitable extinguishing agents:*  
*CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.*
- *Protective equipment: No special measures required.*

#### 6 Accidental release measures

- *Person-related safety precautions: Not required.*
- *Measures for environmental protection: Dilute with plenty of water.*
- *Measures for cleaning/collecting:*  
*Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).*
- *Additional information: No dangerous substances are released.*

#### 7 Handling and storage

- *Handling:*
  - *Information for safe handling: No special measures required.*
  - *Information about protection against explosions and fires: No special measures required.*
- *Storage:*
  - *Requirements to be met by storerooms and receptacles: No special requirements.*
  - *Information about storage in one common storage facility: Not required.*
  - *Further information about storage conditions: None.*

#### 8 Exposure controls and personal protection

- *Additional information about design of technical systems: No further data; see item 7.*

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- **Components with limit values that require monitoring at the workplace:**  
*The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.*
- **Additional information:** *The lists that were valid during the creation were used as basis.*
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
*The usual precautionary measures for handling chemicals should be followed.*
- **Breathing equipment:** *Not required.*
- **Protection of hands:**  
*The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.*  
*Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.*  
*Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation*
- **Material of gloves**  
*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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.*
- **Penetration time of glove material**  
*The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.*
- **Eye protection:** *Goggles recommended during refilling.*

## 9 Physical and chemical properties

### · General Information

<b>Form:</b>	Liquid
<b>Color:</b>	Colorless
<b>Odor:</b>	Odorless

### · Change in condition

<b>Melting point/Melting range:</b>	Approx. 0 °C
<b>Boiling point/Boiling range:</b>	Approx. 100 °C

· **Flash point:** Not applicable.

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Density:** Approx. 1 g/mL (20 °C)

### · Solubility in / Miscibility with

**Water:** Freely soluble

· **pH-value:** Approx. pH7

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### 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous products of decomposition:** No dangerous decomposition products known.

### 11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
  - **on the skin:** No irritant effect.
  - **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**

The product is not subject to classification according to internally approved calculation methods for preparations:  
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.

### 12 Ecological information

- **General notes:** Generally not hazardous for water

### 13 Disposal considerations

- **Product:**
- **Recommendation:** Smaller quantities can be disposed of with household waste.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

### 14 Transport information

- **Maritime transport IMDG:**
- **Marine pollutant:** No

### 15 Regulations

- **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

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· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenicity categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

· **Product related hazard informations:**

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations according to directives on hazardous materials.

· **National regulations:**

· **Water hazard class:** Generally not hazardous for water.

## 16 Other information

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**INFORMATION.**

· **Department issuing MSDS:** *Water and Temperature Measurement R&D Dept.*

· **Abbreviations and acronyms:**

*IMDG: International Maritime Code for Dangerous Goods*

*GHS: Globally Harmonized System of Classification and Labelling of Chemicals*

*ACGIH: American Conference of Governmental Industrial Hygienists*

*EINECS: European Inventory of Existing Commercial Chemical Substances*

*NFPA: National Fire Protection Association (USA)*

*HMIS: Hazardous Materials Identification System (USA)*

· **Sources**

*RTECS*

*A chemistry large dictionary (KIORITZ CORP. publication 1963)*

*A product safe data sheet preparation guide book (Corporate Juridical person Nippon Chemical Industrial Co., Ltd. Organization information center)*

*Safety data sheet guidebook edited by the information center of the Society for Japan Chemical Industry*

*The Sigma-Aldrich Library Regulatory and Safety Data*

· **\* Data compared to the previous version altered.**

*Date May. 1, 2009*

*Revised June. 12, 2009*