

## Safety data sheet according to 1907/2006/EC, Article 31

Printing date 01.10.2012

Revision: 28.09.2012

### 1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**
- **Name of chemical substance:** Y051L (150ppm Ca ion standard solution)
- **Article number:** 3200457728
- **MSDS No:** 572
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the preparation** Calcium ion standard solution
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
HORIBA, Ltd.  
2 Miyanohigashi, Kisshoin,  
Minami-ku Kyoto, Japan, KYOTO  
601-8510 JAPAN  
techinfo.hor@jp.horiba.com
- **Further information obtainable from:** Liquid & Water Quality R&D Dept.
- **Emergency telephone number:** During normal opening times: +81 75 313-8121

### 2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
The product is not classified according to the CLP regulation.
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**  
Not applicable.  
Void
- **Information concerning particular hazards for human and environment:**  
The product does not have 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 is according to the latest editions of the EU-lists, and extended by company and literature data.
- **Label elements**
- **Labelling according to EU guidelines:**  
Observe the general safety regulations when handling chemicals.  
The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization:** Mixtures
- **Description:** Mixture of substances listed below with nonhazardous additions.

(Contd. on page 2)

EU

## Safety data sheet according to 1907/2006/EC, Article 31



Printing date 01.10.2012

Revision: 28.09.2012

Name of chemical substance: Y051L (150ppm Ca ion standard solution)

(Contd. of page 1)

**· Components:**

CAS: 7447-40-7 EINECS: 231-211-8	potassium chloride		Nearly 0,75%
CAS: 10043-52-4 EINECS: 233-140-8 Index number: 017-013-00-2	calcium chloride	 Xi R36  Eye Irrit. 2, H319	Nearly 0,04%

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

### 4 First aid measures

- **Description of first aid measures**
- **General information:** No special measures required.
- **After inhalation:** Supply fresh air or oxygen; call for doctor.
- **After skin contact:** Wash the affect areas under running water.
- **After eye contact:**  
Immediately rinse the affected eyes with running water for at least 15 minutes, and refer for medical attention.
- **After swallowing:** Give the victim water. If necessary, get medical attention.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** This product is noncombustible.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**  
Fire fighter should wear positive pressure self-contained breathing apparatus(SCBA) and full turnout gear.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** The protective equipment is worn.
- **Environmental precautions:** Do not allow product to reach sewage system or any water course.
- **Methods and material for containment and cleaning up:**  
Sweep up and place in a vessel. Flush residual area with water.
- **Reference to other sections** No dangerous substances are released.

### 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Keep away from heat and direct sunlight.  
Keep receptacles tightly sealed.
- **Information about fire - and explosion protection:** No special measures required.

(Contd. on page 3)

## Safety data sheet according to 1907/2006/EC, Article 31

Printing date 01.10.2012

Revision: 28.09.2012

Name of chemical substance: Y051L (150ppm Ca ion standard solution)

(Contd. of page 2)

- **Conditions for safe storage, including any incompatibilities**
- **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:**  
Keep container tightly sealed.  
Protect from heat and direct sunlight.
- **Storage class:**
- **Class according to regulation on flammable liquids:** Void
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:**  
Provide good ventilation. Make available washbasin and eye wash near the work area.
- **Control parameters**
- **Ingredients 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 valid during the making were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
The usual precautionary measures are to be adhered to when handling chemicals.
- **Respiratory protection:** Suitable respiratory protective device recommended.
- **Protection of hands:**



Protective gloves

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:** Safety glasses
- **Body protection:** Use protective suit.

EU

(Contd. on page 4)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 01.10.2012

Revision: 28.09.2012

Name of chemical substance: Y051L (150ppm Ca ion standard solution)

(Contd. of page 3)

## 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form:	Fluid
Colour:	Colourless
Odour:	Odourless

· **Change in condition**

Melting point/Melting range: Undetermined.  
Boiling point/Boiling range: Undetermined.

· **Flash point:** Not applicable.

· **Self-igniting:** Product is not selfigniting.

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

· **Density:** Not determined.

· **Solubility in / Miscibility with water:**

Fully miscible.

· **Other information** No further relevant information available.

## 10 Stability and reactivity

· **Reactivity**

· **Chemical stability**

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

· **Possibility of hazardous 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.

## 11 Toxicological information

· **Information on toxicological effects**

· **Acute toxicity:**

· **Primary irritant effect:**

· **on the skin:** Irritant to skin and mucous membranes.

· **on the eye:** Irritating effect.

· **Sensitization:** Not detected

· **Additional toxicological information:**

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

EU

(Contd. on page 5)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 01.10.2012

Revision: 28.09.2012

Name of chemical substance: Y051L (150ppm Ca ion standard solution)

(Contd. of page 4)

## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Generally not hazardous for water
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation** After dissolve a lot of water. Discharge it into a drain.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

## 14 Transport information

· <b>UN-Number</b>	Not applicable.
· <b>UN proper shipping name</b>	Not applicable
· <b>Transport hazard class(es)</b>	Not applicable
· <b>Packing group</b>	Not applicable
· <b>ADR</b>	--
· <b>Environmental hazards:</b>	
· <b>Marine pollutant:</b>	No
· <b>Special precautions for user</b>	Not applicable.
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	Cheak the containers are tightly sealed. Handle carefully so that they will not be damaged by falling or dropping. Keep away from water.

EU

(Contd. on page 6)

## Safety data sheet according to 1907/2006/EC, Article 31

Printing date 01.10.2012

Revision: 28.09.2012

**Name of chemical substance: Y051L (150ppm Ca ion standard solution)**

(Contd. of page 5)

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations:**
- **Classification according to VbF: Void**
- **Waterhazard class: Generally not hazardous for water.**
- **Chemical safety assessment: A Chemical Safety Assessment has not been carried out.**

### 16 Other information

HORIBA, Ltd. provides the information contained herein in good faith but makes no representation as to its comprehensives or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

HORIBA, Ltd. MAKES NO REPRESENTATION OR WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY, HORIBA, Ltd. WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE UPON THIS INFORMATION.

- **Relevant phrases**

H319 Causes serious eye irritation.

R36 Irritating to eyes.

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

- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

VbF: Verordnung über brennbare Flüssigkeiten, Österreich (Ordinance on the storage of combustible liquids, Austria)

- **Sources**

RTECS

A chemistry large dictionary (KIORITZ CORP. publication 1963)

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

The MERCK index

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

Date May. 9, 2012

Revised Sep. 28, 2012