Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830 - United Kingdom (UK)

HORIBAAdvanced Techno

SAFETY DATA SHEET

00567 EU

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifie

- Product name Product code SDS Drawing Code SDS Drawing Code
- : Y031H (2000ppm K+ standard solution)
- **:** 3200457719
- ng Code : Not available.
 - : M003181A

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

Identified uses	
Calibration solutions	
Uses advised against	
Not available.	

1.3 Details of the supplier of the safety data sheet

HORIBA Advanced Techno Co., Ltd. 2, Miyanohigashi-cho, Kisshoin, Minami-ku, Kyoto, 601-8551 Japan Tel: +81-75- 321-7184

HORIBA Europe GmbH Hans-Mess-Str.6, D-61440, Oberursel, Germany Tel: +49 6172 1396 0

e-mail address of person : techinfo.hor@jp.horiba.com responsible for this SDS

1.4 Emergency telephone number National advisory body/Poison Center

Telephone number United: +44 (0)20 7771 5310Kingdom (UK)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

<u>Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]</u> Not classified.

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

2.2 Label elements		
Signal word	:	No signal word.
Hazard statements	:	No known significant effects or critical hazards.
Precautionary statements		
General	1	Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.
Prevention	:	Wear protective gloves and eye or face protection.

 Date of issue/Date of revision
 : 6/29/2021
 00567 EU
 1/10

Y031H (2000ppm K+ standard solution)

SECTION 2: Hazards identification

Response	1	Get medical advice/attention.
Storage	1	Keep cool and protect from sunlight. Store locked up.
Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	:	Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
Special packaging requirem	nen	<u>its</u>
Containers to be fitted with child-resistant fastenings	:	Not applicable.
Tactile warning of danger	:	Not applicable.
2.3 Other hazards		
Other hazards which do		None known

Other hazards which do : None known. not result in classification

SECTION 3: Composition/information on ingredients

3.2 Mixtures

: Mixture

Product/ingredient name	Identifiers	%	<u>Classification</u> Regulation (EC) No. 1272/2008 [CLP]	Туре
potassium chloride	EC: 231-211-8 CAS: 7447-40-7	0.38	Not classified.	[6]

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	 Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	 Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed <u>Potential acute health effects</u>

Ey	e contact	з.,	No k	known	signit	ficant	effect	ts or	critical	hazard	S.

Date of issue/Date of revision	: 6/29/2021	00567 EU	2/10
--------------------------------	-------------	----------	------

Y031H (2000ppm K+ standard solution)

SECTION 4: First aid measures

Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/sy	mptoms
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.
4.3 Indication of any imm	ediate medical attention and special treatment needed
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

SECTION 5: Firefighting measures

-				
5.1 Extinguishing media				
Suitable extinguishing media	Use an extinguishing agent suitable for the surrounding fire.			
Unsuitable extinguishing media	one known.			
5.2 Special hazards arising	the substance or mixture			
Hazards from the substance or mixture	In a fire or if heated, a pressure increase will occur and the container may bu	urst.		
Hazardous thermal decomposition products	No specific data.			
5.3 Advice for firefighters				
Special protective actions for fire-fighters	Promptly isolate the scene by removing all persons from the vicinity of the inc there is a fire. No action shall be taken involving any personal risk or without suitable training.			
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-containe breathing apparatus (SCBA) with a full face-piece operated in positive pressumode. Clothing for fire-fighters (including helmets, protective boots and glov conforming to European standard EN 469 will provide a basic level of protect chemical incidents.	ure /es)		
1				

SECTION 6: Accidental release measures

6.1 Personal precautions, pro	ote	ctive equipment and emergency procedures
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and materials for containment and cleaning up

Date of issue/Date of revision : 6/29/2021	00567 EU	3/10
--	----------	------

HORIBAAdvanced Techno Y031H (2000ppm K+ standard solution)

SECTION 6: Accidental release measures

Small spill	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor.
6.4 Reference to other sections	: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)	
Recommendations	: Not available.
Industrial sector specific	: Not available.
solutions	

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

Recommended monitoring procedures	: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures
Date of issue/Date of revision	: 6/29/2021 00567 EU 4/1

Y031H (2000ppm K+ standard solution)

SECTION 8: Exposure controls/personal protection

for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available.

8.2 Exposure controls		
Appropriate engineering controls	:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Individual protection meas	ures	
Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection		
Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	:	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1 Information on basic physic	cal and chemical properties
<u>Appearance</u>	
Physical state	: Liquid.
Color	: Colorless.
Odor	: Odorless.
Odor threshold	: Not available.
рН	: Not available.
Melting point/freezing point	: Not available.
Initial boiling point and boiling range	: Not available.

Y031H (2000ppm K+ standard solution)

SECTION 9: Physical and chemical properties

Flash point	1	Not available.
Evaporation rate	:	Not available.
Flammability (solid, gas)	1	Not available.
Upper/lower flammability or explosive limits	:	Not available.
Vapor pressure	:	Not available.
Vapor density	:	Not available.
Relative density	:	Not available.
Solubility(ies)	:	Not available.
Partition coefficient: n-octanol/ water	:	Not applicable.
Auto-ignition temperature	:	Not available.
Decomposition temperature	1	Not available.
Viscosity	:	Not available.
Explosive properties	:	Not available.
Oxidizing properties	:	Not available.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity				
10.1 Reactivity	1	No specific test data related to reactivity available for this product or its ingredients.		
10.2 Chemical stability	1	The product is stable.		
10.3 Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.		
10.4 Conditions to avoid	:	No specific data.		
10.5 Incompatible materials	:	No specific data.		
10.6 Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.		

SECTION 11: Toxicological information

11.1 Information on toxicological effects							
Acute toxicity							
Conclusion/Summary	: Not available.						
Acute toxicity estimates							
Not available.							
Irritation/Corrosion							
Conclusion/Summary	: Not available.						
Sensitization							
Conclusion/Summary	: Not available.						
Mutagenicity							
Conclusion/Summary	: Not available.						
Carcinogenicity							

Date of issue/Date of revision

: 6/29/2021

Y031H (2000ppm K+ standard solution)

Conclusion/Summary	: Not available.		
Reproductive toxicity			
Conclusion/Summary	: Not available.		
Teratogenicity			
Conclusion/Summary	: Not available.		
Specific target organ toxicit	<u>y (single exposure)</u>		
Not available.			
Specific target organ toxicit Not available.	<u>y (repeated exposure)</u>		
Aspiration hazard Not available.			
Information on the likely routes of exposure	: Not available.		
Potential acute health effects			
Eye contact	: No known significant effects or critical hazards.		
Inhalation	: No known significant effects or critical hazards.		
Skin contact	: No known significant effects or critical hazards.		
Ingestion	: No known significant effects or critical hazards.		
Symptoms related to the phy	sical, chemical and toxicological characteristics		
Eye contact	: No specific data.		
Inhalation	: No specific data.		
Skin contact	: No specific data.		
Ingestion	: No specific data.		
Delayed and immediate effec	ts and also chronic effects from short and long term exposure		
<u>Short term exposure</u>			
Potential immediate effects	: Not available.		
Potential delayed effects	: Not available.		
<u>Long term exposure</u>			
Potential immediate effects	: Not available.		
Potential delayed effects	: Not available.		
Potential chronic health effe	ects		
Not available.			
Conclusion/Summary	: Not available.		
General	: No known significant effects or critical hazards.		
Carcinogenicity	: No known significant effects or critical hazards.		
Mutagenicity	: No known significant effects or critical hazards.		
Teratogenicity	: No known significant effects or critical hazards.		
Developmental effects	: No known significant effects or critical hazards.		
Fertility effects	: No known significant effects or critical hazards.		
Other information	: Not available.		
Date of issue/Date of revision	: 6/29/2021	00567 EU	7/10

Y031H (2000ppm K+ standard solution)

SECTION 12: Ecological information

12.1 Toxicity **Conclusion/Summary** : Not available. 12.2 Persistence and degradability **Conclusion/Summary** : Not available. 12.3 Bioaccumulative potential Not available. 12.4 Mobility in soil Soil/water partition : Not available. coefficient (Koc) Mobility : Not available. 12.5 Results of PBT and vPvB assessment **PBT** : Not applicable. vPvB : Not applicable.

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product	
Methods of disposal	: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non- recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	 Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.
Packaging	
Methods of disposal	 The generation of waste should be avoided or minimized wherever possible. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	: This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name		-		
Date of issue/Date of re	00567 EU 8/			

Y031H (2000ppm K+ standard solution)

SECTION 14: Transport information							
14.3 Transport hazard class(es)		-					
14.4 Packing group	-	-	-	-			
14.5 Environmental hazards	No.	No.	No.	No.			
Additional information	-	-	-	-			

user

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions : Not applicable.

on the manufacture,
placing on the market
and use of certain
dangerous substances,
mixtures and articles

Other EU regulations

: All components are listed or exempted.

Europe inventory Seveso Directive

This product is not controlled under the Seveso Directive.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

15.2 Chemical Safety	1	This product contains substances for which Chemical Safety Assessments are still
Assessment		required.

Y031H (2000ppm K+ standard solution)

SECTION 16: Other information

Indicates information	on that has changed from previously issued version.
Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.
	1272/2008]
	DMEL = Derived Minimal Effect Level
	DNEL = Derived No Effect Level
	EUH statement = CLP-specific Hazard statement
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number
	vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification		Justification
Not classified.		
Full text of abbreviated H statements	: Not applicable.	
Full text of classifications [CLP/GHS]	: Not applicable.	
Full text of abbreviated R phrases	: Not applicable.	
Full text of classifications [DSD/DPD]	: Not applicable.	
Date of issue/ Date of revision	: 6/29/2021	
Date of previous issue	: 1/6/2020	

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.