SAFETY DATA SHEET Honeywe Fluk Barium hydroxide octahydrate 31127-100G Version 1.3 Issuing date 12/19/2016 Revision Date 01/06/2023 Print Date 06/05/2023 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING **Product information** Trade name Barium hydroxide octahydrate : 00000020789 Number ٠ Laboratory chemicals Recommended use of the : chemical and restrictions on use Manufacturer or supplier's Honeywell Specialty Chemicals Seelze : GmbH details Wunstorfer Straße 40 Seelze, 30926 Germany For further information, • PMTEU Product Stewardship (49) 5137-999 0 please contact: SafetyDataSheet@Honeywell.com (Monday-Friday, 9:00am-5:00pm) Medical: 1-800-498-5701 or +1-303-389-1414 In case of emergency call : Transportation (CHEMTREC): 1-800-424-9300 or +1-703-527-3887 In Japan: +(81)-345209637 2. HAZARDS IDENTIFICATION Classification of the substance or mixture Classification of the : Acute toxicity, Category 4, Oral Acute toxicity, Category 4, Inhalation substance or mixture Skin corrosion, Category 1A Serious eye damage, Category 1 GHS Label elements, including precautionary statements Symbol(s) Signal word Danger 1/12



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Hazard statements	Cau	mful if swallowed. ses severe skin burns ar mful if inhaled.	nd eye dama	ge.
Precautionary state	Do Was Do Use Wes	vention: not breathe dust or mist. sh skin thoroughly after h not eat, drink or smoke w only outdoors or in a we ar protective gloves/prote ection.	hen using the	area.
	IF S unw IF S IF C con IF II pos IF II Ren rins Imm	WALLOWED: Rinse mo DN SKIN (or hair): Remove taminated clothing. Rinse NHALED: Remove victim tion comfortable for breat N EYES: Rinse cautious nove contact lenses, if pu	uth. Do NOT /e/ Take off ir e skin with wa to fresh air a thing. y with water f resent and ea CENTER/ do	induce vomiting. mmediately all ater/ shower. and keep at rest in a for several minutes. asy to do. Continue ctor.
	Stor Dis	rage: re locked up. posal:		
	Disp plar	oose of contents/ contain it.	er to an appr	oved waste disposa
Other hazards whic result in classification		rosive to the respiratory t	ract.	
OMPOSITION/INFO	RMATION ON ING	REDIENTS		
Formula	: Ba(C	0H)2 · 8H2O		
Chemical nature	: Subs	stance		
Chemical name		CAS-	No.	Concentration

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Barium hydroxide-8-hydrat Barium hydroxide-8-hydrat		12230-71-6	100.00 %
FIRST AID MEASURES			
General advice	Move Imme	aider needs to protect himself. e out of dangerous area. ediately take off contaminated clot plenty of water.	hing and rinse body
Inhalation	fresh	se of irritation when dust is inhaled air. a physician immediately.	d, provide for plenty of
Skin contact		contact with skin, wash immediate a physician immediately.	ely with plenty of water.
Eye contact	Prote	e thoroughly with plenty of water, a ect unharmed eye. a physician immediately.	also under the eyelids.
Ingestion	Do N	n swallowed, allow water to be dru IOT induce vomiting. a physician immediately.	ink.
Notes to physician	: Treat	t symptomatically.	
FIREFIGHTING MEASURES	;		
Suitable extinguishing med	Foan Carb		
Specific hazards during firefighting	Haza	product itself does not burn. ardous decomposition products for itions.	med under fire
Special protective equipme for firefighters		r an approved positive pressure se aratus in addition to standard fire fig	
Further information		extinguishing measures that are a metances and the surrounding env	

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6. ACCIDENTAL RELEASE MEAS	URES		
Personal precautions, protective equipment and emergency procedures	 Evacuate personnel to safe areas. Wear personal protective equipment. Unprotected persons must be kept away. Avoid dust formation. Material can create slippery conditions. Do not breathe dust. Do not get in eyes, on skin, or on clothing. 		
Environmental precautions	: Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.		
Methods and materials for containment and cleaning up	: Use mechanical handling equipment. Sweep up and shovel into suitable containers for disposal. Dispose of in accordance with local regulations.		
7. HANDLING AND STORAGE			
Handling			
Precautions for safe handling	 Wear personal protective equipment. Use only in well-ventilated areas. Do not breathe dust. Do not get in eyes, on skin, or on clothing. 		
Advice on protection against fire and explosion	: Normal measures for preventive fire protection.		
Storage			
Conditions for safe storage, including any incompatibilities	 Store in original container. Keep containers tightly closed in a dry, cool and well- ventilated place. Protect from exposure to air/oxygen. 		
8. EXPOSURE CONTROLS/PERS	ONAL PROTECTION		
Components with workplace Contains no substances with o	control parameters ccupational exposure limit values. 4/12		
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Appropriate engineering controls

Provide exhaust ventilation if dust is formed.

Individual protection measures, such as personal protective equipment

Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment.
Hand protection	: Latex gloves Gloves must be inspected prior to use. Replace when worn.
Eye protection	: Safety goggles
Skin and body protection	: Impervious clothing
Hygiene measures	 Keep working clothes separately. Separate rooms are required for washing, showering and changing clothes.
Protective measures	 Ensure that eyewash stations and safety showers are close to the workstation location. Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment. Do not breathe dust. Do not get in eyes, on skin, or on clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: solid
Colour	: colourless
Odour	: odourless
Odour Threshold	: Note: No data available
рН	: Note: alkaline, (as aqueous solution)
Melting point/range	: 78 °C
Boiling point/boiling range	: Note: Decomposes on heating.
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Flash point	: Note: Not applicable
Evaporation rate	: Note: No data available
Flammability	: The product is not flammable.
Lower explosion limit	: Note: Not applicable
Upper explosion limit	: Note: Not applicable
Vapour pressure	: Note: No data available
Vapour density	: Note: No data available
Density	: ca. 2.180 g/cm3 at 20 °C
Water solubility	: 947.0 g/l
Partition coefficient: n- octanol/water	: Note: No data available
Ignition temperature	: Note: Not applicable
Auto-ignition temperature	: Note: not auto-flammable
Decomposition temperature	: Note: No decomposition if used as directed.
Viscosity, dynamic	: Note: No data available
Viscosity, kinematic	: Note: No data available
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
Molecular weight	: 315.46 g/mol
Bulk density	: ca. 1,070 kg/m3
Buik density	. ca. 1,070 kg/mo



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10. STABILITY AND REACTIVITY

Chemical stability	:	Stable under recommended storage conditions.
Possibility of hazardous reactions	:	Exothermic reaction with strong acids.
Conditions to avoid	:	Protect from atmospheric moisture and water. Corrodes metals in the presence of water or moisture.
Incompatible materials to avoid	:	Acids
Hazardous decomposition products	:	Fire may cause evolution of: Toxic metal oxide fumes

11. TOXICOLOGICAL INFORMATION

	Information on likely routes of exposure		Inhalation, Eye contact, Skin contact, Ingestion
	Acute oral toxicity	:	Note: Classification based on Annex VI of regulation 1272/2008/EC.
		:	Acute toxicity estimate: 550 mg/kg Method: Calculation method
	Acute inhalation toxicity	:	Note: Classification based on Annex VI of regulation 1272/2008/EC.
		:	Acute toxicity estimate: 1.5 mg/l Method: Calculation method
	Acute dermal toxicity	:	Note: No data available
	Skin corrosion/irritation	:	Note: Causes skin burns.
	Serious eye damage/eye irritation	:	Note: Causes eye burns.
	Respiratory or skin sensitisation	:	Note: Not classified due to data which are conclusive although insufficient for classification.
	Repeated dose toxicity	:	Note: No data available 7/12

Honeywel SAFETY DATA SHEET Fluka Barium hydroxide octahydrate 31127-100G Version 1.3 Revision Date 01/06/2023 Print Date 06/05/2023 Issuing date 12/19/2016 Germ cell mutagenicity : Note: Not classified due to data which are conclusive although insufficient for classification. : Species: not specified Carcinogenicity Note: Not classified due to data which are conclusive although insufficient for classification. Reproductive toxicity : Species: not specifiedNote: Not classified due to inconclusive data. **12. ECOLOGICAL INFORMATION** Aquatic and ecotoxicity : Note: Not classified due to data which are conclusive although Toxicity to fish insufficient for classification. Toxicity to daphnia and other : Note: Not classified due to data which are conclusive although aquatic invertebrates insufficient for classification. : Note: Not classified due to data which are conclusive although Toxicity to algae insufficient for classification. Persistence and degradability Biodegradability : Note: The methods for determining biodegradability are not applicable to inorganic substances. Other adverse effects Additional ecological : Should not be released into the environment. Neutralisation will reduce ecotoxic effects. information 8/12

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13. DISPOSAL CONSIDERATION	S	
Disposal methods	: In accordance with local and national regulations.	
14. TRANSPORT INFORMATION		
ADR UN/ID No. Description of the goods	: UN 3262 : CORROSIVE SOLID, BASIC, INORGANIC, N.O.S.	
Class Packing group Classification Code Hazard Identification Number Labels	(BARIUM HYDROXIDE) 2 8 2 II 2 C6 2 80 2 8	
IATA UN/ID No. Description of the goods	 : UN 3262 : Corrosive solid, basic, inorganic, n.o.s. (Barium hydroxide) 	
Class Packing group Labels Packing instruction (cargo	: 8 : II : 8 : 863	
aircraft) Packing instruction (passenger aircraft) Packing instruction (passenger aircraft)	: 859 : Y844	
IMDG UN/ID No. Description of the goods	: UN 3262 : CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (BARIUM HYDROXIDE)	
Class Packing group Labels EmS Number 1 EmS Number 2	: 8 : II : 8	
Marine pollutant	: no	
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15. REGULATORY INFORMATIO	JN	
National regulatory informative Vessel Safety Law JP VSL	ation : Corrosive substances (Article 2 and 3 of storage of dangerous goods and its Attac	
Aviation Law JP AVL	: Corrosive substances (Article 194 of The Aviation Law and its Attached Table 1)	Enforcement Rules of
Substances Subject to be Notified Names JP MSDSD	: Threshold Concentration: 1 % wt 449	
Substances Subject to be Indicated Names JPISHL LR	: Article 18 Threshold limits: 1 % wt 449	
Fire Service Law	: Not relevant	
Japan. ISHL Hazardous Substances Subject to Labeling Requirements (ISHL Enforcement Order, Article 18, Art. 30 & 31), as amended	: Listed Barium hydroxide-8-hydrate 12230-71	-6
Japan. SDS and Risk Assessment Requirements (ISHL Art. 57-2 and 57-3, Enforcement Order Art. 18-2 Enforcement Rule Art. 34-2 and 34-2-2), as amended	: Listed Barium hydroxide-8-hydrate 12230-71- ,	-6
Poisonous and Deleterious Substances Control Law	: Deleterious substance not for pharmac 79 Listed Barium hydroxide-8-hydrate 12230-71-	
Other international regulation	ons	
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	Notification status US. Toxic Substances Control Act	: On TSCA Inventory
	Australia. Inventory of Industrial Chemicals (AIIC), as amended	: On the inventory, or in compliance with the inventory
	Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)	: All components of this product are on the Canadian DSL
	Japan. Kashin-Hou Law List	: On the inventory, or in compliance with the inventory
	Korea. Existing Chemicals Inventory (KECI)	: On the inventory, or in compliance with the inventory
	Philippines. Inventory of Chemicals and Chemical Substances (PICCS)	: On the inventory, or in compliance with the inventory
	China. Inventory of Existing Chemical Substances (IECSC)	: On the inventory, or in compliance with the inventory
	New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand	: On the inventory, or in compliance with the inventory
	Taiwan Chemical Substance Inventory (TCSI)	: On the inventory, or in compliance with the inventory
-	16. OTHER INFORMATION	
		HMIS III NFPA
	Health hazard	: 3 3 : 0 0
	Flammability Physical Hazard	: 0 0 : 0
	Instability	: 0
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Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions. Previous Issue Date: 10/03/2017 Revision Date: 01/06/2023

Version 1.3 Issuing date 12/19/2016 Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group