SAFETY DATA SHEET		Honeywell
Sodium hydroxide		
S5881-5KG		
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1. IDENTIFICATION OF THE SUB	STANCE/MIXTURE AND OF THE COM	IPANY/UNDERTAKING
Product information		
Trade name :	Sodium hydroxide	
Number :	00000020688	
Recommended use of the : chemical and restrictions on use	Laboratory chemicals	
Manufacturer or supplier's : details	Honeywell Specialty Chemicals See GmbH Wunstorfer Straße 40 Seelze, 30926 Germany	lze
For further information, : please contact:	1-800-368-0050 +1-231-726-3171 (Monday-Friday, 9:00am-5:00pm)	
In case of emergency call : :		
2. HAZARDS IDENTIFICATION		
Classification of the substar	ice or mixture	
Classification of the substance or mixture	: Corrosive to metals, Category 1 Skin corrosion, Category 1A Serious eye damage, Category 1	
GHS Label elements, includi	ng precautionary statements	
Symbol(s)		
Signal word	: Danger	
Hazard statements	: May be corrosive to metals.	
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	Caus	ses severe skin burns and e	eye damage.
Precautionary statements	Keep Do n Was	ention: o only in original container. ot breathe dust or mist. h skin thoroughly after han r protective gloves/protectiv	dling. ve clothing/eye protection/face
	prote Res p	ponse:	
	IF OI conta IF IN posit IF IN Rem rinsir Imme Wasl Abso	N SKIN (or hair): Remove/ aminated clothing. Rinse sk HALED: Remove victim to ion comfortable for breathin EYES: Rinse cautiously w ove contact lenses, if prese ng. ediately call a POISON CE h contaminated clothing be orb spillage to prevent mate	kin with water/ shower. fresh air and keep at rest in a ng. with water for several minutes. ent and easy to do. Continue NTER/ doctor. ofore reuse.
		e locked up.	tainer with a resistant inner liner.
			to an approved waste disposal
3. COMPOSITION/INFORMATIC			
Formula	: NaOF		
Chemical nature	: Subst		
Chemical name Sodium hydroxide Sodium hydroxide		CAS-No 1310-73-	
4. FIRST AID MEASURES			
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General advice	: First aider needs to prot	rect himself
	Take off all contaminate	
Inhalation	: Remove to fresh air. If breathing is difficult, g Use oxygen as required present. Call a physician immedi	l, provided a qualified operator is
Skin contact	minutes.	
Eye contact	: Rinse immediately with for at least 15 minutes. Protect unharmed eye. Call a physician immedi	plenty of water, also under the eyelids, ately.
Ingestion	: When swallowed, allow Do NOT induce vomiting Call a physician immedi	g.
Notes to physician	: Treat symptomatically.	
FIREFIGHTING MEASURES		
Suitable extinguishing media	: Water spray Foam Carbon dioxide (CO2) Dry powder	
Specific hazards during firefighting	: The product is not flammed Contact with metals liber Fire may cause evolution Sodium oxides	erates hydrogen gas.
Special protective equipment for firefighters	: Wear self-contained bre	eathing apparatus and protective suit.
Further information		sures that are appropriate to local surrounding environment.

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. ACCIDENTAL RELEASE MEA	SURES		
Personal precautions, protective equipment and emergency procedures	must t Evacu Keep Ensur	personal protective equipment. be kept away. late personnel to safe areas. people away from and upwind of e adequate ventilation. t get in eyes, on skin, or on cloth	spill/leak.
Environmental precautions	Discha Do no	nt further leakage or spillage if sa arge into the environment must b t flush into surface water or sanit t allow run-off from fire fighting to es.	e avoided. ary sewer system.
Methods and materials for containment and cleaning up	protec Use m Sweep contai	nal protection through wearing a stion suit and a self-contained bre nechanical handling equipment. p up or vacuum up spillage and c ner for disposal. se of in accordance with local reg	eathing apparatus. collect in suitable
. HANDLING AND STORAGE			
Handling Precautions for safe handling	Use of Use of When water	personal protective equipment. nly in well-ventilated areas. nly alkali-proof equipment. diluting, always add the product to the product. t get in eyes, on skin, or on cloth	
Advice on protection against fire and explosion	: Norma	al measures for preventive fire pr	otection.
Storage			
Conditions for safe storage, including any	Keep	in original container. containers tightly closed in a dry, ated place.	cool and well-
incompatibilities			
Further information on storage conditions		ct from atmospheric moisture and ct is hygroscopic.	l water.



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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS- No.	Value	Control parameters	Update	Basis
Sodium hydroxide Sodium hydroxide	1310-73- 2	TLV-C : Ceiling Limit Value	2 mg/m3	04 2007	Japan Society for Occupational Health:Japan Society for Occupational Health allowable concentration recommendatio n value

Appropriate engineering controls

Use with local exhaust ventilation.

Individual protection measures, such as personal protective equipment

Respiratory protection	: In case of insufficient ventilation wear suitable respiratory equipment.
Hand protection	: Impervious gloves Gloves must be inspected prior to use. Replace when worn.
Eye protection	: Safety goggles Face-shield
Skin and body protection	: Complete suit protecting against chemicals
Hygiene measures	 Take off all contaminated clothing immediately. Remove and wash contaminated clothing before re-use. Keep working clothes separately. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.
Protective measures	: Ensure that eyewash stations and safety showers are close to $$5\!/\!13$$

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	Legal requi selection, ι	ation location. rements are to be considere ise and care of personal pro	
PHYSICAL AND CHEMICAL		athe dust or spray mist.	
Physical state	: solid		
Colour	: colourless		
Odour	: odourless		
Odour Threshold	: Note: No d	ata available	
рН	: Note: alkali	ne	
Melting point/range	: 319 °C		
Boiling point/boiling range	: 1,390 °C a	t 1,013 hPa	
Flash point	: Note: Not a	applicable	
Evaporation rate	: Note: No da	ata available	
Flammability	: The produc	t is not flammable.	
Lower explosion limit	: Note: Not a	applicable	
Upper explosion limit	: Note: Not a	applicable	
Vapour pressure	: Note: No da	ata available	
Vapour density	: Note: No d	ata available	
Density	: 2.13 g/cm3	3 at 20 °C	
Water solubility	: Note: comp	pletely soluble	

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Solubility in other solvents	: Note: No data available
Partition coefficient: n- octanol/water	: Note: No data available
Ignition temperature	: Note: Not applicable
Viscosity, dynamic	: Note: No data available
Viscosity, kinematic	: Note: No data available
Particle size	: Note: No data available
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
Molecular weight	: 40.00 g/mol
Bulk density	: Note: No data available
Corrosivity	: Note: Corrosive to metals
10. STABILITY AND REACTIVI	Y
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Possible incompatibility with alkali sensitive materials. With acid and aluminium.

	Corrosive in contact with metals
Conditions to avoid	: Corrodes metals in the presence of water or moisture. Protect from moisture.
Incompatible materials to avoid	: Zinc Aluminium Tin Gives off hydrogen by reaction with metals.

Reacts violently with water.

 Exothermic reaction with strong acids.

 Hazardous decomposition products
 : Sodium oxides

Exothermic reaction with water.

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11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	:	Inhalation, Eye contact, Skin contact, Ingestion
Acute oral toxicity	:	Note: Toxicity is determined by the corrosivity of the product.
Acute inhalation toxicity	:	Note: Toxicity is determined by the corrosivity of the product.
Acute dermal toxicity	:	Note: Toxicity is determined by the corrosivity of the product.
Skin corrosion/irritation	:	Result: Causes severe burns. Classification: Corrosive
Serious eye damage/eye irritation	:	Result: Risk of serious damage to eyes. Classification: Corrosive
Respiratory sensitisation	:	Note: No data available
Skin sensitisation	:	Note: No data available
		NI-C- NI- I-C
Repeated dose toxicity	:	Note: No data available
Germ cell mutagenicity	:	Note: No data available
Carcinogenicity	:	Species: not specified Note: No data available
Reproductive toxicity	:	Species: not specifiedNote: No data available
Specific target organ toxicity - single exposure	:	Note :No data available
Specific target organ toxicity - repeated exposure	:	Note :No data available
Aspiration toxicity	:	No data available

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2. ECOLOGICAL INFORMATION	4		
Aquatic and ecotoxicity			
Toxicity to fish	: Note: I	No data available	
Toxicity to daphnia and other aquatic invertebrates	Expos	pilization 40.4 mg/l ure time: 48 h es: Ceriodaphnia spec	
Toxicity to algae	: Note: I	No data available	
Persistence and degradability	у		
Biodegradability		The methods for determining the tapplicable to inorganic substan	o o ,
Bioaccumulative potential			
Bioaccumulation	: Note: I	No data available	
Mobility in soil			
Mobility	: Note: I	No data available	
Other adverse effects			
Additional ecological information		d not be released into the enviror alisation will reduce ecotoxic effe	
3. DISPOSAL CONSIDERATION	S		
Disposal methods	: In acco	ordance with local and national r	egulations.
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4. TRANSPORT INFORMATION		
ADR UN/ID No. Description of the goods	: UN 1823 : SODIUM HYDROXIDE, SOLID	
Class Packing group Classification Code Hazard Identification Number Labels	: 8 : II : C6	
IATA UN/ID No. Description of the goods Class Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passenger aircraft) Packing instruction (passenger aircraft)	: 8 : II : 8	
IMDG UN/ID No. Description of the goods Class Packing group Labels EmS Number 1 EmS Number 2	: UN 1823 : Sodium Hydroxide, Solid : 8 : II : 8 : F-A : S-B	
Marine pollutant	: no	
5. REGULATORY INFORMATIO National regulatory informat Vessel Safety Law JP VSL		
Aviation Law	: Corrosive substances (Article 194 of T	he Enforcement Rules of

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JP AVL	Aviation Law an	d its Attached Table 1)	
Fire Service Law	: Not relevant		
Japan. ISHL Hazardous Substances Labeling Requirements (ISHL Art. 57, Enforcement Order Art. 18, Enforcement Rule Art. 30 & 31, as amended through 6 April 2018)	: Listed Sodium hydrox	kide 1310-73-2	
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		kide 1310-73-2	
Japan. ISHL Corrosive Liquid (Industrial Safety and Health Ordinance, Art. 326, as amended through MHLW Ordinance No. 212)		kide 1310-73-2	
Poisonous and Deleterious Substances Control Law	54 Listed	bstance not for pharmace kide 1310-73-2	eutical use
Other international regulatio	ns		
Notification status US. Toxic Substances Control Act	: On TSCA Inve	entory	
Australia. Inventory of Industrial Chemicals (AIIC), as amended	: On the invento	ory, or in compliance with	the inventory
Canada. Canadian Environmental Protection Act (CEPA). Domestic	: All component	s of this product are on th	ne Canadian DSL
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Substances Li	st (DSL)
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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
Flammability	: 0	0
Physical Hazard	: 1	
Instability	:	1

* - Chronic health hazard

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

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to be cons material de materials o material is any specifi Changes s versions. Previous Is Revision D Version 1.4 Issuing da	idered a warranty or quality sp esignated and may not be vali or in any process, unless spec the sole responsibility of the u c product properties. since the last version are highl ssue Date: 10/06/2017 Pate: 10/19/2022 4 te 12/19/2016	Revision Date 10/19/2022 Decification. The information related d for such material used in combi- itified in the text. Final determination user. This information should not of ighted in the margin. This version aterials and Technologies Product	es only to the specific nation with any other on of suitability of any constitute a guarantee for replaces all previous		
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