








安全資料表

危害物料資料

1. 產品與用途							
1.1 物料名稱	: Kao Kitchen Bleach 花王萬潔靈						
1.2 用途	: 漂白劑						
2. 危害成份							
2.1 危害分類及標籤 :							
	有害	有毒	腐蝕性	易燃	刺激性	爆炸性	助燃
	()	()	(✓)	()	()	()	()
2.2 酸鹼值(pH)	: 13.0-13.5			2.3 曝露限制(OEL) :		不適用	
2.4 致癌物質	: 無資料			2.5 其他危害		: 腐蝕性	
2.5 潛在危害 : 與酸性物質接觸會產生氯氣，吸入有害氯氣，可能會造成生命危。							
3. 火警和爆炸資料							
3.1 燃燒物成份比例 :	無資料	3.2 沸點 :	無資料	3.3 溶點 :	無資料		
3.4 閃點(°C) :	不適用	3.5 比重 :	1.09±0.1	3.6 氣壓力 :	無資料		
3.7 爆炸極限(濃度) :	無資料	3.8 溶解度 :	可溶解	3.9 氣味 :	無資料		
3.10 滅火設備	: 使用粉末、抗溶性泡沫、霧狀水、二氧化碳、沙子						
4. 急救處理							
4.1 眼睛接觸		: 不宜揉眼睛，立即用水沖洗至少 15 分鐘，請尋求醫療護理。					
4.2 皮膚接觸		: 用大量清水沖洗，如持續有刺激感覺，請尋求醫療護理。					
4.3 吸入		: 如呼吸困難，移至空氣清新處，請尋求醫療護理。					
4.4 食入		: 吐出口中產品，飲大量水、牛奶或雞蛋，並盡早求醫。					
5. 個人防護裝備							
<input checked="" type="checkbox"/> 橡膠手套		<input checked="" type="checkbox"/> 護眼罩		<input checked="" type="checkbox"/> 長袖衫褲			
6. 處理及使用應知事項							
6.1 儲存注意事項:		●避免陽光照射，貯存於乾燥，陰涼通風場所，保持容器密閉。					
6.2 意外洩漏處理的方法:		佩戴合適個人防護設備如護目鏡和防護手套，維持洩漏區通風良好，用沙子、惰性吸收劑、廢布或鋸末吸收洩漏物，然後用廢布擦去殘留物。 如大量洩漏: 請先疏散人員離開洩漏區域。請圍截液體並在安全區域進行處理。					
7. 其他資料							
- 嚴禁飲食或吸煙 - 所有受污衣物立即脫掉							

MATERIAL SAFETY DATA SHEET

[1.PRODUCT AND COMPANY IDENTIFICATION]

PRODUCT NAME : Kao Kitchen Bleach

SUPPLIER : Kao Corporation

ADDRESS : 14-10,Nihonbashi Kayabacho 1-Chome,Chuo-ku,Tokyo 103-8210 Japan

DIVISION : Global Fabric & Home Care Business Unit

TELEPHONE NUMBER : 81-3-3660-7389

FAX NUMBER : 81-3-3660-7936

EMERGENCY : 81-3-3660-7389

TELEPHONE NUMBER

[2.COMPOSITION/INFORMATION ON INGREDIENTS]

SUBSTANCE OR PREPARATION : Mixture

INGREDIENTS AND CONCENTRATION RANGE

Ingredients	Concentration Range(%)	CAS RN
Sodium hypochlorite	Confidential	Confidential
Sodium polyoxyethylene alkylether sulfate	Confidential	Confidential
Sodium hydroxide	Confidential	Confidential
Water, other components	Confidential	

INGREDIENTS CONTRIBUTING TO : Sodium hypochlorite
THE HAZARD(JAPAN)

[3.HAZARDS IDENTIFICATION]

MOST IMPORTANT HAZARDS : Corrosive

ADVERSE HUMAN HEALTH EFFECTS : in case of swallowing a large quantity of high concentration liquid, delayed treatment may cause danger of the life.
Possibility to lose sight, in case of contact with eyes.
In case of inhalation of harmful chlorine gas, delayed treatment may cause danger of the life.
In contact with skin, delayed treatment may cause inflammation.

ENVIRONMENTAL EFFECTS : Nothing should be mentioned.

PHYSICAL AND CHEMICAL HAZARDS : Contact with acids produces chlorine gases.

CLASS NAME FOR MSDS IN JAPAN : Corrosive substances

[4.FIRST-AID MEASURES]

IN CASE OF INHALATION : In case of inhalation of harmful chlorine gas, remove person to fresh air and keep him calm. After that, immediately seek medical attention.

IN CASE OF SKIN CONTACT : Immediately wash material off the skin with plenty of water.
Immediately take off all contaminated clothing and shoes.
If necessary seek medical attention.

IN CASE OF EYE CONTACT : Should not rub eyes.
Immediately flush with a stream of water for at least 15 minutes and seek medical attention even if no pain or abnormalities.

IN CASE OF INGESTION : Immediately give a large quantity of water, milk or eggs to drink.
Never give anything by mouth to an unconscious person.
Do not induce vomiting and immediately seek medical attention.

[5.FIRE-FIGHTING MEASURES]

EXTINGUISHING MEDIA : Powder, alcohol-resistant foam, water spray, carbon dioxide,sand

NOT SUITABLE EXTINGUISHING MEDIA : No information available

SPECIFIC HAZARDS : May produce irritating or toxic gases in a fire.

SPECIFIC METHODS : Keep away from sources of ignition and use appropriate extinguishing media.Fight fire from upwind position if possible.
Product itself is non-combustible.

PROTECTION OF FIREFIGHTERS : Use goggles in combination with dust mask, and another protections as appropriate to situation.

[6.ACCIDENTAL RELEASE MEASURES]

PERSONAL PRECAUTIONS : Use goggles and protective gloves.
Large spills : Remove person to safety.
Ensure adequate ventilation.

ENVIRONMENTAL PRECAUTIONS : Do not discharge into the drains, surface waters or ground water directly.

METHODS FOR CLEANING UP : Small spills: Absorb spills with sand, inert absorbent, waste cloth or sawdust. Then wipe up remainder in waste cloth.
Large spills: Dike spills and dispose of in safe area.

PREVENTION OF SECONDARY HAZARDS : No information available

[7.HANDLING AND STORAGE]**HANDLING**

TECHNICAL MEASURES : Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

PRECAUTIONS : Avoid contact with eyes and skin.

SAFE HANDLING ADVICE : Use an adequate ventilation.
Wash thoroughly after handling.
Use personal protective equipment as required.
Do not inhale gases, vapors, aerosols, fume or mist.
Avoid contact with acids.

STORAGE

STORAGE CONDITIONS : Keep container tightly closed.
Protect from sun. Store in a dark and well-ventilated place.
Do not store with acids.

PACKAGING MATERIALS : No information available

[8.EXPOSURE CONTROLS/PERSONAL PROTECTION]

ENGINEERING MEASURES : Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
Use an adequate ventilation.

LIMIT VALUES :

ACGIH(TLV) : Not established

OSHA(PEL) : Not established

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION : Use as appropriate to situation.

HAND PROTECTION : Rubber gloves

EYE PROTECTION : Safety glasses

SKIN AND BODY
PROTECTION : Full-body suit

HYGIENE MEASURES : No information available

[9.PHYSICAL AND CHEMICAL PROPERTIES]

PHYSICAL STATES

FORM : Liquid

COLOUR : Pale yellow clear

ODOUR : No data available

pH : 13.0 - 13.5 (Undiluted solution)

SPECIFIC TEMPERATURES/TEMPERATURE RANGES AT WHICH CHANGES IN PHYSICAL STATE OCCUR

BOILING POINT : No data available

MELTING POINT : No data available

DECOMPOSITION
TEMPERATURE : No data available

FLASH POINT : Not applicable

AUTOIGNITION TEMPERATURE : No data available

EXPLOSION PROPERTIES

EXPLOSION : UPPER LIMIT : No data available LOWER LIMIT : No data available

VAPOUR PRESSURE : No data available

VAPOUR DENSITY : No data available

DENSITY : 1.09 g/mL (20 °C) (68 °F)

SOLUBILITY

WATER SOLUBILITY : Soluble

SOLVENT SOLUBILITY : No data available

OCTANOL/WATER PARTITION
COEFFICIENT : No data available

OTHER DATA : No data available

[10.STABILITY AND REACTIVITY]

STABILITY : Unstable against air, heat, light or metal. Gradually loses available chlorine at room temperature.

HAZARDOUS REACTIONS : Reacts with acids.

CONDITIONS TO AVOID : No information available

MATERIALS TO AVOID : No information available

HAZARDOUS DECOMPOSITION PRODUCTS : No information available

OTHERS : No information available

[11.TOXICOLOGICAL INFORMATION]

ACUTE TOXICITY : No information available

LOCAL EFFECTS

CORROSIVITY : No information available

SKIN IRRITATION : No information available

EYE IRRITATION : No information available

SENSITIZATION : No information available

CHRONIC TOXICITY/LONG TERM TOXICITY : No information available

CARCINOGENICITY : No information available

IARC : Not established

NTP : Not established

EU : Not established

OSHA : Not established

MUTAGENICITY : No information available

TERATOGENICITY : No information available

REPRODUCTION TOXICITY : No information available

OTHER DATA : No information available

[12.ECOLOGICAL INFORMATION]

MOBILITY : No information available

PERSISTENCE/
DEGRADABILITY : No information available

BIOACCUMULATION : No information available

ECOTOXICITY

AQUATIC TOXICITY : No information available

OTHER DATA : No information available

[13.DISPOSAL CONSIDERATIONS]

Review "HANDLING AND STORAGE (Section 7)".
Passed to a licensed waste contractor.

Dispose of waste in accordance with local, state and federal regulations.

[14.TRANSPORT INFORMATION]

Follow all regulations in your country or region

UN CLASS/UN NUMBER : Class 8 / UN1791

IATA : Proper Shipping Name Hypochlorite Solution

IMDG	Class	8
	UN Number	UN1791
	Packing Group	III
	: Proper Shipping Name	Hypochlorite Solution
	Class	8
	UN Number	UN1791
	Packing Group	III
PRECAUTIONS	Additional information	Not applicable
	: Review "ACCIDENTAL RELEASE MEASURES (Section 6)".	
	Review "HANDLING AND STORAGE (Section 7)".	
	Ensure containers without breakage or leakage.	
	Ensure containers tightly fixed.	
	Follow all regulations in your country or region.	
	Emergency Response Guide(ERG) Numbers : 154	

[15.REGULATORY INFORMATION]

Follow all regulations in your country or region

INVENTORIES	: ENCS(Japan)	Yes
	TSCA(USA)	Yes
	EINECS(EU)	Yes

KAO Corporation is not able to check up the regulatory information in regard to the substances in your country or region,therefore,we request this matter would be filled by your responsibility.

[16.OTHER INFORMATION]

REFERENCE	: -Safety data sheet for chemical products - Part 1: Content and order of sections(ISO 11014-1)
	-International Chemical Safety Cards(ICSC) (Compiler's Guide)(1994)

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