



Material Safety Data Sheet

BLEACH

Publication date : 22.03.2022
Revision no : 1
GBF NO : 769009
Page : 1/5
MSDS No : 020

This document was prepared based on (AB) 1272/2008 and principles and rules for preparing Safety DataSheet (23/06/2017 NO 30105).

1. Identification of Substance / Preparation and of the Company

1.1. Identification of substance / preparation

Product name : BLEACH
Chemical family : Hypochlorite
CAS No : 7681-52-9
EINECS No : 231-668-3

1.2. Use of substance / preparation

Chlorine based liquid bleach.

1.3. Identification of the company

Company name ALKIDRA GROUP ENTERPRISES UK LIMITED
Address: 86-90 Paul Street, London, England, EC2A 4NE
Telephone : +44 151 458 1046
E-mail : info@kidra.co.uk

Emergency tel NATIONAL VENOM CENTER (114)

2. Composition / Information on Ingredients

<u>Substance name</u>	<u>Conc.%</u>	<u>CAS No.</u>	<u>EC No.</u>	<u>Hazard Symbol</u>	<u>Risk Phrases</u>	<u>Safety Phrases</u>
Sodium hypochlorite	<10%	7681-52-9	231-668-3	C	R31, 34, 37	S26, 27, 28, 36/37/39, 45
Note: Full text of R-phrases is given in section 16.						
...

3. Hazard Identification

3.1. Hazard Symbol



GHS05

GHS09

3.2. Risk Phrases

H314 Contact with acids liberates toxic gas.
H318 Irritating to eyes and skin.
H400 Toxic in water



Material Safety Data Sheet

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Page : 2/5
MSDS No 020

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4. First Aid Measures

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Check breathing and heart beating. If not breathing perform artificial respiration. If not heart beating perform cardiopulmonary resuscitation. If person is conscious, give half glass of water for each 10 minutes. **Skin:** In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.

Note to physician: Treat symptomatically.

5. Fire Fighting Measures

Appropriate fire extinguishing materials and tools: On large fires, use dry chemical, foam or water spray. On small fires, use carbon dioxide (CO₂), dry chemical or water spray. Water can be used to cool fire exposed containers.

Nonflammable and noncombustible liquid. But it gives violent reactions with amines, ammonium aldehyde, ammonium carbonate, aziridine, methanol, phenylacetonitrile, ammonium nitrate, ammonium oxylate, ammonium phosphate, cellulose, ethylene amine. Do not mix acids, aqua ammonia, or other organic or inorganic chemicals with this product. Closed containers can explode reaction with acids.

Inappropriate extinguisher for safety reasons: None

Flash point: N/A

Special protective equipment: Full face masks or goggles containing full protection (rubber apron and boots) and clothes, use a portable breathing device.

6. Accidental Release Measures

Personal precautions: Personnel should be trained in control measures. Provide adequate ventilation for the protection of personnel. Use full face masks and protective clothing. Immediately remove contaminated clothes and should be washed before wearing again

Environmental protective measures: The spread of leakage must be stopped immediately to prevent the working area . Spread area of the product should be washed with water.

Cleaning / Collecting Methods: Contain spill using absorbent material and place in an approved container. Dispose of according to the method outlined in Section 13, "Disposal Considerations" below.



Material Safety Data Sheet BLEACH

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Page : 3/5

MSDS No 020

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7. Handling and Storage

Use of product: During handling of liquid, prevent contact with clothes, skin and eyes by using adequate personal protective equipment (see Section 8, "Exposure Control / Personal Protection" below). If the release of airborne material is likely, exhaust ventilation and/or respiratory protection may also be

Warnings to protect against fire and explosion: None

Desired features for warehouse and containers: Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect from direct sunlight.

Precautions for storage together with other materials: Acids, metals, alcohols and peroxides.

8. Exposure Control / Personal Protection

Engineering precaution: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal protection equipments:

Eye: Use fully protected chemical safety goggles. Moreover, because the face and eye contact bounce or eruption may be possible, in addition to glasses, use face masks.



Hands: Water resistance or neoprene gloves should be used.

Cloth: Because of the potential dangers of this product, these clothes should be used: Impermeable apron, pants, title and boots.

Respiration: A full facepiece respirator should be used.

9. Physical and Chemical Properties

9.1. Appearance: : Clear liquid

9.2. Color : Yellow

9.3. Odor : Chlorine odor

9.4. Important health, safety and environment information

- pH : >12

- Decomposition point : >40°C

- Vapor pressure : N/A

- Density (20°C) : 1,08 g/ml

- Solubility : 26g/100g of water (at 0°C NaOCl)



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Page : 4/5

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10. Stability and Reactivity

Chemical stability

Unstable at temperature higher than 40°C, under direct sunlight, contact with acidic products.

Conditions to avoid

Avoid from heat, direct sun light and acidic products.

Incompatible substances

Should not be contacted with acidic products. Unless chlorine gas is formed which is toxic and corrosive.

Dangerous degradation products

Sodium oxide can be formed.

Materials to avoid

Nickel, copper, tin, manganese and iron.

11. Toxicological Information

Acute Toxicity : LD50 = 12mg/kg (Rat) (NaOCl)

Skin : Corrosive - causes burns.

Eyes : Corrosive - causes burns.

Inhalation : Corrosive. May cause bronchospasm in chlorine sensitive individuals.

Ingestion : Corrosive. Strong caustic effect on mouth and throat and danger of perforation to oesophagus and stomach.

Carcinogenic effect: Not listed.

12. Ecological Information

Ecotoxicity

When used for its intended purpose this product should not cause adverse effects in the environment.

13. Disposal Consideration

Dispose of in accordance with all local and national regulations. For small quantities dilute with at least 100 parts of water and pour down waste water drain (foul sewer). Rinse out empty containers thoroughly and recycle if facilities exist or dispose of as commercial waste. For larger quantities contact a licensed waste contractor.

14. Transport Information

ADR/RID:

N/A

IMDG:

N/A

ICAO-TI and IATA-DGR:

N/A



Material Safety Data Sheet

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Page : 5/5

MSDS No 020

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15. Regulatory Information

Prepared and labeled as EC directives.

Product Hazard Definition:



Xi - Irritant

Risk Phrases:

R31 Contact with acids liberates toxic gas. R36/38 Irritating to eyes and skin.

Safety Phrases:

S24/25 Avoid contact with skin and eyes.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S27 Take off immediately all contaminated clothing.

S28 After contact with skin, wash immediately with plenty of water. S36/37/39

Wear suitable protective clothing, gloves and eye/face protection.

S46 If swallowed, seek medical advice immediately and show this container or label.

16. Other Information

This Safety Data Sheet is compiled with information of the individual components.

The data are based on current knowledge and experience. This Safety Data Sheet is for product safety requirements and product review and does not make any guarantees about the specifics.

The data is appropriate only when the product is used for desired application. This product is not sold in accordance with other applications - usage in such a situation can lead to risks mentioned in this list. Do not use for other application without consulting the manufacturer.

This Safety Data Sheet is prepared in accordance with the Dangerous Substances Directive (67/548/EEC). This Safety Data Sheet is prepared in accordance with the Hazardous Preparations Directive (88/379/EEC). This Safety Data Sheet is prepared in accordance with the Safety Data Sheet Directive (2001/58EC).

Text of risk phrases associated with ingredients listed in section 2.

R31 Contact with acids liberates toxic gas.

R34 Causes burns.

R37 Irritating to respiratory system.