



# SAFETY DATA SHEET

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Revised edition no : 03

## P-109 BLEACH

Effective Date: 24.7.2019

### 1 Identification of the Product and the company

Chemical Name : Bleach  
Type of product chemical family : Alkaline Cleaner  
Use : Bleaching compound  
Producer : TLC-KOYA CHEMICALS MANUFACTURING SDN BHD  
No.22 & 23, Jalan Maju 1,  
Cemerlang Industrial Estate,  
81800 Ulu Tiram, Johor, Malaysia.  
Tel: 607-8675798 Fax: 607-8675799  
Website: www.koyachemicals.com Email: admin@koyachemicals.com  
Emergency phone nr : See producer

### 2 Hazard Identification



Pictogram :

SIGNAL WORD: Danger

Acute Toxicity (Oral)	Category 3
Skin Corrosion or irritation	Category 1
Serious eye damage or eye irritation	Category 1
Skin sensitization	Category 1
Germ Cell Mutagenicity	Category 1
Carcinogenicity	Category 1
Reproductivity toxicity	Category 1
Specific target organ toxicity-repeated exposure	Category 1
Hazardous to the aquatic environmnet-acute hazard	Category 1
Hazardous to the aquatic environmnet-chronic hazard	Category 3

#### HAZARD STATEMENT / PENYATAAN HAZARD

H314 : causes severe skin burns and eye damage	menyebabkan kecederaan kulit yang teruk dan kerosakan mata
H318 : causes serious eye damage	menyebabkan kerosakan mata yang serius
H301 : toxic if swallowed	toksik jika ditelan
H340 : may cause genetic defects	boleh menyebabkan kecacatan genetik
H350 : may cause cancer	boleh menyebabkan kanser
H360 : may damage fertility or the unborn child	boleh merosakkan kesuburan atau anak yang belum lahir
H372 : may cause damage to organ	boleh menyebabkan kerosakan kepada organ
H400 : very toxic to aquatic life	Sangat toksik kepada hidupan akuatik
H412 : harmful to aquatic life with long lasting effects	berbahaya kepada kehidupan akuatik dengan kesan jangka panjang

#### Precautionary statement prevention

P201	obtain special instrction before use dapatkan arahan khas sebelum digunakan
P202	do not handle until all safety recautions have been read and understood jangan mengendalikan sehingga semua langkah keselamatan telah dibaca dan difahami
P260	do not breathe dust/fume/gas/mist/vapours/spray jangan bernafas debu / asap / gas / kabus / wap / semburan
P261	Avoid breathing dust/fume/gas/mist/vapours/spray Elakkan bernafas habuk / asap / gas / kabus / wap / semburan

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- P264 Wash thoroughly after handling.  
Basuh dengan teliti selepas dikendalikan.
- P270 do not eat, drink, or smoke when using this products  
jangan makan, minum, atau asap ketika menggunakan produk ini
- P272 contaminated work clothing shall not be allowed out of the workplace.  
pakaian kerja yang tercemar tidak dibenarkan keluar dari tempat kerja.
- P273 Avoid release to the environment.  
Elakkan daripada melepaskan ke persekitaran.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.  
Memakai peralatan perlindungan seperti sarung tangan/pakaian pelindung/mata dan pelindung muka.
- P281 use personal protective equipment as required.  
gunakan peralatan pelindung diri seperti yang diperlukan.

#### Precautionary statement response

- P301+P310 : IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
JIKA TERLENGKAP: Segera hubungi PUSAT POISON atau doktor / doktor.
- P301+P330+P331 : IF SWALLOWED: Rinse mouth. Do NOT induce vomiting  
JIKA TERLENGKAP: Bilas mulut. TIDAK menggerakkan muntah
- P302+P352 : IF ON SKIN : wash with plenty of soap and water  
JIKA PADA KULIT: basuh dengan banyak sabun dan air
- P303+P361+P353 : IF ON SKIN (or hair) : remove/take off immediately all contaminated clothing. Rinse skin with water/shower.  
JIKA PADA KULIT (atau rambut): keluarkan / lepaskan semua pakaian yang tercemar. Rinse kulit dengan air / mandi.
- P304+P340 : IF INHALED : remove victim to fresh air and keep at rest in a position comfortable for breathing  
JIKA INHALED: membuang mangsa ke udara segar dan tetap berehat dalam kedudukan yang selesa untuk bernafas
- P305+P351+P338 : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
Continue rinsing.  
JIKA MATA: Bilas berhati-hati dengan air selama beberapa minit. Tanggalkan kanta lekap, jika ada dan mudah untuk dilakukan. Teruskan membilas.
- P308+P313 : IF exposed or concerned : Get medical advice/attention.  
JIKA terdedah atau bimbang: Dapatkan nasihat / perhatian perubatan.
- P310 : Immediately call a POISON CENTER or doctor/physician  
Segera hubungi PAKAIAN POISON atau doktor / doktor
- P314 : Get medical advice/attention if you feel unwell  
Dapatkan nasihat perubatan / perhatian jika anda merasa tidak sihat
- P321 : Specific treatment  
Rawatan khusus
- P330 : Rinse mouth  
Bilas mulut
- P333+P313 : If skin irritation or rash occurs : Get medical advice / attention  
Jika kerengsaan kulit atau ruam berlaku: Dapatkan nasihat / perhatian perubatan
- P363 : Wash contaminated clothing before reuse.  
Basuh pakaian yang tercemar sebelum digunakan semula.
- P391 : Collect spillage  
kumpul tumpahan

#### Precautionary statement storage

- P405 Store locked up Simpan terkunci

#### Precautionary statement disposal

- P501 Dispose of contents/container in accordance with local/regional/national/international regulation  
Menguruskan bahan / bekal menurut peraturan antarabangsa / tempatan / kawasan / negara

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#### 3 Composition / Information on Ingredients

Hazardous ingredients : Sodium Hypochloride 5.5% +/- 0.5% within 1 year

#### 4 First Aid Measures

For eye contact : Flush eyes for 30 minutes with cool water, if irritation Developed, consult a physician immediately.

For inhalation : Remove patient to a clean atmosphere and administer Oxygen if it necessary. Consult a physician immediately.

For ingestion : Do not induce vomiting. Have patient drink large amounts of water or milk. Consult a physician immediately.

#### 5 Fire-Fighting Measures

Fire Hazard - Product is water based and in wet form, its fire hazard is low. The dried product is combustible, decomposition products can be toxic.

Extinguishing media - Water, powder, CO<sub>2</sub>, sand...all extinguishing media are suitable. Protective clothing and self-contained breathing equipment should be available for firemen.

- To prevent environmental damage, if possible collect water used to extinguish the fire in containers.

#### 6 Accidental Release measures

Personal protection - Wear PVC-gloves and goggles to contain spillage. Avoid repeated skin contact.

Environment precautions - Prevent the product contaminating soil and groundwater. Prevent the product entering sewers and waterways. Cfr. Section 12.

Cleaning / recovery - Large spillages : contain and pump into containers

- Small spillages : absorb on sand, earth...and collect into containers for disposal. Disposal should always comply with local, national or EEC regulations. Cfr. Section 13.

#### 7 Handling and Storage

Handling : Good industrial and personal hygiene practice should be followed. No eating and drinking in the workplace. Ensure adequate ventilation.

Storage : Storage temperature : between +5 and +40°C. Protect from frost and direct sunlight. Drums and bottles : material is plastic or steel. Bulk tanks : stainless steel, plastic coated materials... Clean bulk tanks periodically to prevent accumulation of bacteria.

Specific use : Use the best available methods of handling our Products whereby the employees enjoy maximum safety and whereby the environment is minimally affected.

#### 8 Exposure controls / personal protection

Exposure limit values : No danger in normal ambient conditions. There are no specific limiting values for professional exposure. There are no biological limiting values. User should determine the conditions for safe use of the product. Cfr. Section 7 "Handling and Storage".

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Exposure controls:

- Occupational exposure controls : Respiratory protection : not applicable  
Hand protection : waterproof PVC-gloves (CE)  
Eye protection : goggles or safety glasses (CE)  
Skin protection : N/A  
Avoid repeated skin contact.
- Environmental exposure controls : The product must not be discharge directly into drains or waterways without treatment.

9 Physical and chemical properties

- PH of concentrate : 12.5 - 13.5
- Appearance and odor : Clear liquid and a chemical odour
- Solubility in water : Complete soluble in water.
- Specific Gravity (H<sub>2</sub>O = 1) : 1.11 - 1.13 @ 28.9°C
- Stability : one year

10 Stabiity and reactivity

- Conditions to avoid : Stable under the recommended storage conditions. Cfr. Section 7 "Storage".  
Bacterial degradation can occur if the Product is stored for an unusually long period or is stored under unsuitable conditions.
- Materials to avoid : N/D
- Hazardous decomposition products : N/D

11 Toxicological information

- On product : Low toxicity is indicated by available data.  
Under normal industrial conditions, there is no indication that the Product can be considered as a health risk.  
Skin contact should be avoided to prevent possible long-term or short-term sensitisation.

12 Ecological information

- Ecotoxicity : The Product is soluble with water and as such could cover considerable distances if spilled into waterways. Even a small spillage will whiten the appearance of water. Water for sewage treatment, that has been contaminated.  
with small quantities of the Product, will not affect the biomass. High concentrations may be harmful to fish and micro organisms.
- Mobility : Not established.
- Persistence and degradability : There is only a slow environmental degradation of the Product.
- Bioaccumulative potential : There is seemingly no tendency for bioaccumulation.
- Other adverse effects : Unknown

13 Disposal Considerations

- The following advice only applies to the product as supplied
- Combination with other materials may well indicate another route of disposal. If in doubt, contact local TLC-KOYA CHEMICALS MANUFACTURING SDN BHD or local authorities.
- Empty packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed

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- contractor.
- Care should in any case be taken to ensure compliance with national and local regulations.
  - This product is not suitable for disposal by either landfill or via municipal sewers, drains, and natural streams, rivers or seas, they will effect the relationship between livings things, plants and their environment.

#### 14 Transport information

General information : This Product is not regulated for road/rail & sea transport.

#### 15 Regulatory Information

Classification and labeling : Classification /symbol - not regulated  
Governing directive : Occupational Safety and Health (Classification, Packaging and Labeling of Hazardous Chemicals) Regulations 1997  
Safety advice : (May contain information in excess of requirements under applicable laws.  
S23 Do not breathe gas/fumes/vapor/spray  
S24 Avoid contact with skin  
S33 Take precautionary measures against static discharges  
S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

#### 16 Other information

Further information : None  
Print date : 24.7.2019

N/A - Not Applicable N/D - Not Determined

All recommendations for the use of our products, whether given by us in writing, orally, or to be implied from data or test results obtained by us, are based on the current state of our knowledge at the time such recommendations are made. When additional information is obtained, these recommendations may be updated. They may also be influenced by circumstances outside our control. Notwithstanding such recommendations, the user is responsible to determine that the product as supplied by us, is suitable for the process or purpose he intends to use it. The user of the product is solely for compliance with all laws and regulation applying to the use of the product. Since we cannot control the application, use or processing of the products, we do not accept responsibility therefore. The user shall ensure that the intended use of the products will not infringe in any party's intellectual property rights.

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