

## 1 Identification of the substance/preparation and of the company/undertaking

- **Product details**
- **Trade name:** Kossan Fungicidal Wash
- **Article number:** KFW
- **Application of the substance / the preparation** Cleaning agent/ Cleaner
- **Manufacturer/Supplier:**  
KOSSAN PAINT (M) SDN. BHD.  
1, Jalan Koporat 1/KU 9, Taman Perindustrian Meru  
42200 Kapar, Selangor D.E. Malaysia.
- **Further information obtainable from:**  
Product safety department.  
lskheong@kop.com.my
- **Information in case of emergency:** Manufacturer/supplier

## 2 Hazards identification

- **Hazard description:**



Xn Harmful

- **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 20/22 Harmful by inhalation and if swallowed.

R 38 Irritating to skin.

R 41 Risk of serious damage to eyes.

R 43 May cause sensitisation by skin contact.

Safety data sheet available for professional user on request.

- **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- **GHS label elements**



**Danger**

3.2/1C - Causes severe skin burns and eye damage.



**Warning**

3.1/4 - Harmful if swallowed.

3.1/4 - Harmful if inhaled.

3.4/1 - May cause an allergic skin reaction.

- **Prevention:**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Do not breathe dust/fume/gas/mist/vapours/spray.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing should not be allowed out of the workplace.

Wear protective gloves/protective clothing/eye protection/face protection.

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· **Response:**

*IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.*

*IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.*

*IF ON SKIN: Wash with plenty of soap and water.*

*IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.*

*IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.*

*IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.*

*Continue rinsing.*

*Immediately call a POISON CENTER or doctor/physician.*

*Call a POISON CENTER or doctor/physician if you feel unwell.*

*Specific treatment (see label).*

*Rinse mouth.*

*If skin irritation or rash occurs: Get medical advice/attention.*

*Wash contaminated clothing before reuse.*

*In case of fire: Use for extinction: CO2, powder or water spray.*

· **Storage:**

*Store in a well-ventilated place. Keep cool.*

*Store locked up.*

· **Disposal:**



*Dispose of contents/container in accordance with local/regional/national/international regulations.*

### 3 Composition/information on ingredients

· **Chemical characterization**

· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 10222-01-2	2,2-dibromo-2-cyanoacetamide	 T; R 23/25	≤ 2.5%
EINECS: 233-539-7		Danger:  3.1.O/2, 3.1.I/2	

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

### 4 First aid measures

· **General information:** No special measures required.

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:**

*If skin irritation continues, consult a doctor.*

*Remove all contaminated clothing and footwear*

*Immediately wash with water and soap and rinse thoroughly.*

· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

· **After swallowing:**

*Do not induce vomiting; call for medical help immediately.*

*Rinse out mouth and then drink plenty of water.*

· **Information for doctor:**

· **Treatment**

*If swallowed, gastric irrigation with added, activated carbon.*

*Rinse eyes thoroughly with physiological salines*

### 5 Fire-fighting measures

· **Suitable extinguishing agents:**

*CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.*

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· **Special hazards caused by the substance, its products of combustion or resulting gases:**

Nitrogen oxides (NO<sub>x</sub>)

Carbon monoxide (CO)

Bromine compounds like HBr, Br<sub>2</sub>

· **Protective equipment:**

Wear self-contained respiratory protective device.

Mouth respiratory protective device.

· **Additional information** Collect contaminated fire fighting water separately. It must not enter the sewage system.

## 6 Accidental release measures

· **Person-related safety precautions:**

Wear protective clothing.

Avoid contact with skin, eye, and mucous membranes.

· **Measures for environmental protection:**

Prevent from spreading (e.g. by damming-in or oil barriers).

Do not allow to enter sewers/ surface or ground water.

· **Measures for cleaning/collecting:**

Clean the affected area carefully; suitable cleaners are:

Weak alkaline solution

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

## 7 Handling and storage

· **Handling:**

· **Information for safe handling:**

Ensure that suitable extractors are available on processing machines

Avoid splashes or spray in enclosed areas.

Ensure good ventilation/exhaustion at the workplace.

· **Information about fire - and explosion protection:** No special measures required.

· **Storage:**

· **Requirements to be met by storerooms and receptacles:** Store only in unopened original receptacles.

· **Information about storage in one common storage facility:** Store away from foodstuffs.

· **Further information about storage conditions:** Keep container tightly sealed.

## 8 Exposure controls/personal protection

· **Additional information about design of technical facilities:** No further data; see item 7.

· **Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· **Additional information:** The lists valid during the making were used as basis.

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the skin.

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Avoid contact with the eyes and skin.

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· **Protection of hands:**

Only use chemical-protective gloves with CE-labelling of category III.

Check protective gloves prior to each use for their proper condition.

After use of gloves apply skin-cleaning agents and skin cosmetics.



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

· **Body protection:** Protective work clothing

## 9 Physical and chemical properties

· **General Information**

<b>Form:</b>	Liquid
<b>Colour:</b>	Clear
<b>Odour:</b>	Characteristic

· **Change in condition**

**Melting point/Melting range:** Undetermined.

**Boiling point/Boiling range:** 100°C

· **Flash point:** 62°C

· **Self-igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Vapour pressure at 20°C:** 23 hPa

· **Density at 20°C:** 1.01906 g/cm<sup>3</sup>

· **Solubility in / Miscibility with**

**water:** Not miscible or difficult to mix.

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· <b>Solvent content:</b>	
<b>Organic solvents:</b>	0.0 %
<b>Water:</b>	90.0 %
<b>VOC (EC)</b>	0.00 %
· <b>Solids content:</b>	
	10.0 %

### 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Materials to be avoided:**  
Oxidizing/oxidising agents.  
Reducing agents  
Alkalis
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous decomposition products:**  
Cynogen bromide  
Dibromoacetonitrile

### 11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Strong irritant with the danger of severe eye injury.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**  
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:  
Harmful  
Irritant

### \* 12 Ecological information

- **General notes:**  
The product contains materials that are harmful to the environment  
Toxic for aquatic organisms  
Avoid transfer into environment  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

### 13 Disposal considerations

- **Product:**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### \* 14 Transport information

- **Land transport ADR/RID (cross-border)**



- **ADR/RID class:** 8 Corrosive substances.
- **Danger code (Kemler):** 80
- **UN-Number:** 1760
- **Packaging group:** III
- **Hazard label:** 8
- **Description of goods:** 1760 CORROSIVE LIQUID, N.O.S.

- **Maritime transport IMDG:**



- **IMDG Class:** 8
- **UN Number:** 1760
- **Label:** 8
- **Packaging group:** III
- **EMS Number:** F-A,S-B
- **Marine pollutant:** No
- **Proper shipping name:** CORROSIVE LIQUID, N.O.S.

- **UN "Model Regulation":** UN1760; CORROSIVE LIQUID, N.O.S.; 8; III

### \* 15 Regulatory information

- **Labelling according to EU guidelines:**  
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
- **Code letter and hazard designation of product:** Xn Harmful
- **Hazard-determining components of labelling:** 2,2-dibromo-2-cyanoacetamide
- **Risk phrases:**
  - 20/22 Harmful by inhalation and if swallowed.
  - 38 Irritating to skin.
  - 41 Risk of serious damage to eyes.
  - 43 May cause sensitisation by skin contact.

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· **Safety phrases:**

- 24 Avoid contact with skin.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

· **Special labelling of certain preparations:** Safety data sheet available for professional user on request.

### 16 Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

· **Relevant R-phrases**

23/25 Toxic by inhalation and if swallowed.

· **Department issuing MSDS:** Product safety department.

· **Contact:** Mr. S.K. Lim

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement internationale concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

VOC: Volatile Organic Compounds (USA, EU)

· **\* Data compared to the previous version altered.**

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