

## **Hazardous Substance, Dangerous Goods**

## 1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Product name: CHLOROFORM AR 99.8%

Recommended use: General use chemical.

Supplier: DuluxGroup (PNG) Pte. Ltd.

Street Address: Air Corps Road

Lae Morobe Province

**PNG** 

**Telephone:** 4723633

Emergency telephone number: Australia - +613 9663 2130

### 2. HAZARDS IDENTIFICATION

This material is hazardous according to criteria of Safe Work Australia.



### Signal Word

Danger

#### **Hazard Classification**

Acute Toxicity – Oral – Category 4
Acute Toxicity – Inhalation – Category 3
Skin Corrosion/Irritation – Category 2
Serious Evo Damage/Irritation – Category 2

Serious Eye Damage/Irritation - Category 2A

Carcinogenicity – Category 2 Toxic to Reproduction – Category 2

Specific Target Organ Toxicity (Single Exposure) - Category 3 Narcotic Effects

Specific Target Organ Toxicity (Repeated Exposure) - Category 1

#### **Hazard Statement(s)**

H302 Harmful if swallowed
H315 Causes skin irritation
H319 Causes serious eye irritation
H331 Toxic if inhaled

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H336 May cause drowsiness or dizziness.H351 Suspected of causing cancer

H361 Suspected of damaging fertility or the unborn child

H372 Causes damage to organs through prolonged or repeated exposure

Product name: CHLOROFORM AR 99.8% SDS No: DLXPNGEN001684

Issued: 1 October 2015 Version: 1.0 Page: 1 of 8



#### **Prevention Precautionary Statement(s)**

P102 Keep out of reach of children.

P103 Read label before use.

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe mist, vapours or spray.

P264 Wash hands, face and all exposed skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective clothing, gloves, eye/face protection and suitable respirator.

P281 Use personal protective equipment as required.

#### Response Precautionary Statement(s)

P101 If medical advice is needed, have product container or label at hand.

P302+P352 IF ON SKIN: Wash with plenty of soap and water. P332+P313 If skin irritation occurs: Get medical advice/attention.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.
P308+P313 IF exposed or concerned: Get medical advice/attention.

P314 Get medical advice/attention if you feel unwell.

P362 Take off contaminated clothing and wash before reuse.

#### **Storage Precautionary Statement(s)**

P405 Store locked up

P403+233 Store in a well ventilated place. Keep container tightly closed

#### **Disposal Precautionary Statement(s)**

P501 Dispose of contents/container in accordance with regional and national regulations.

Poisons Schedule (Aust): S6

### DANGEROUS GOODS CLASSIFICATION

Classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

Class: 6.1 Toxic

#### 3. COMPOSITION INFORMATION

CHEMICAL ENTITY CAS NO. PROPORTION

Chloroform 67-66-3 100%

## 4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

Product name: CHLOROFORM AR 99.8% SDS No: DLXPNGEN001684

Issued: 1 October 2015 Version: 1.0 Page: 2 of 8



**Inhalation:** Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. If breathing laboured and patient cyanotic (blue), ensure airways are clear and have a qualified person give oxygen through a facemask. If breathing has stopped apply artificial respiration at once. In the event of cardiac arrest, apply external cardiac massage. Seek immediate medical advice.

**Skin contact:** If skin or hair contact occurs, immediately remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre or a Doctor; or for 15 minutes and transport to Doctor or Hospital.

**Eye contact:** If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a Doctor; or for at least 15 minutes and transport to Doctor or Hospital.

**Ingestion:** Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.

**PPE for First Aiders:** Wear overalls, chemical goggles and impervious gloves. Use with adequate ventilation. If inhalation risk exists wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Notes to physician: Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

Hazchem Code: 2Z

**Suitable extinguishing media:** If material is involved in a fire use water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).

**Specific hazards:** Non-combustible material. May form flammable vapour mixtures with air.

**Fire fighting further advice:** If safe to do so, remove containers from path of fire. Keep containers cool with water spray. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition.

### 6. ACCIDENTAL RELEASE MEASURES

#### **SMALL SPILLS**

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours. Wipe up with absorbent (clean rag or paper towels). Allow absorbent to dry before disposing with normal household garbage.

### LARGE SPILLS

Clear area of all unprotected personnel. Prevent further leakage or spillage if safe to do so. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal.

Product name: CHLOROFORM AR 99.8% SDS No: DLXPNGEN001684

Issued: 1 October 2015 Version: 1.0 Page: 3 of 8



If contamination of sewers or waterways has occurred advise local emergency services.

Dangerous Goods - Initial Emergency Response Guide No: 34

#### 7. HANDLING AND STORAGE

Handling: Avoid skin and eye contact and inhalation of vapour, mist or aerosols.

**Storage:** Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Keep containers closed when not in use check regularly for leaks.

This material is classified as a Dangerous Good Class 6.1 Toxic Substance as per the criteria of the Australian Dangerous Goods Code and must be stored in accordance with the relevant regulations.

This material is a Scheduled Poison S6 and must be stored, maintained and used in accordance with the relevant regulations.

### 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**National occupational exposure limits:** No value assigned for this specific material by Safe Work Australia.

However for:

	TWA		STEL		CARCINOGEN	NOTICES
	ppm	mg/m3	ppm	mg/m3	CATEGORY	
Chloroform	2	10	-	-	-	Sk

As published by Safe Work Australia.

TWA - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

No Exposure Standards assigned to other constituents.

`Sk' Notice - absorption through the skin may be a significant source of exposure. The exposure standard is invalidated if such contact should occur.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept too as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

**Biological Limit Values:** As per the "National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)" the ingredients in this material do not have a Biological Limit Allocated.

Product name: CHLOROFORM AR 99.8% SDS No: DLXPNGEN001684

Issued: 1 October 2015 Version: 1.0 Page: 4 of 8



**Engineering measures:** Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use only in well ventilated areas. Vapour heavier than air - prevent concentration in hollows or sumps. DO NOT enter confined spaces where vapour may have collected. Use with local exhaust ventilation or while wearing appropriate respirator. Keep containers closed when not in use.

Personal protection equipment: H: OVERALLS, SAFETY SHOES, CHEMICAL GOGGLES, GLOVES, RESPIRATOR.

Wear overalls, chemical goggles and impervious gloves. Use with adequate ventilation. If inhalation risk exists wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Available information suggests that gloves made from butyl rubber/leather/natural rubber/neoprene/nitrile rubber/polyethylene/polyvinyl alcohol (PVA)/polyvinyl chloride (PVC)/teflon should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Hygiene measures: Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid skin and eye contact and inhalation of vapour, mist or aerosols. Ensure that eyewash stations and safety showers are close to the workstation location.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Form / Colour / Odour: Clear colourless liquid, with a sweet pleasant odour.

Solubility: Slightly soluble in water.

Specific Gravity (20℃): 1.49 Relative Vapour Density (air=1): >1 Vapour Pressure (20℃): 21.3 Flash Point (℃): N Av Flammability Limits (%): N Av Autoignition Temperature (℃): N Av Melting Point/Range (℃): -64 Boiling Point/Range (℃): 61 N Av Viscosity (cP @ 20℃): 0.6

> (Typical values only - consult specification sheet) N Av = Not availableN App = Not applicable

#### 10. STABILITY AND REACTIVITY

Reactivity: No reactivity hazards are known for the material.

Chemical stability: This material is thermally stable when stored and used as directed.

Hazardous reactions: No known hazardous reactions.

**Conditions to avoid:** Elevated temperatures and sources of ignition.

Incompatible materials: Strong oxidizing agents, strong bases, magnesium, lithium, sodium and sodium oxides.

**Hazardous decomposition products:** Hydrogen chloride and phosgene.

Product name: CHLOROFORM AR 99.8% SDS No: DLXPNGEN001684

Issued: 1 October 2015 Version: 1.0 Page: 5 of 8



#### 11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

#### **Acute Effects**

**Inhalation:** Inhalation of high concentrations can produce central nervous system depression, which can lead to loss of co-ordination, impaired judgement and if exposure is prolonged, unconsciousness.

**Skin contact:** Contact with skin will result in irritation. Will have a degreasing action on the skin. Repeated or prolonged skin contact may lead to irritant contact dermatitis. Can be absorbed through the skin with resultant toxic effects.

**Ingestion:** Swallowing can result in nausea, vomiting and central nervous system depression. If the victim is uncoordinated there is greater likelihood of vomit entering the lungs and causing subsequent complications. Aspiration pneumonia (inflammation of the lung) may result.

Eye contact: An eye irritant.

#### **Acute toxicity**

**Inhalation:** This material has been classified as a Category 3 Hazard.

Acute toxicity estimate (based on ingredients): 2 - 10 mg/L

**Skin contact:** This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >2,000 mg/Kg

**Ingestion:** This material has been classified as a Category 4 Hazard. Acute toxicity estimate (based on ingredients): 300 - 2,000 mg/Kg

**Corrosion/Irritancy:** Eye: this material has been classified as a Category 2A Hazard (reversible effects to eyes).

Skin: this material has been classified as a Category 2 Hazard (irritant to skin).

Sensitisation: Inhalation: this material has been classified as not a respiratory sensitiser.

Skin: this material has been classified as not a skin sensitiser.

**Aspiration hazard:** This material has been classified as non-hazardous.

**Specific target organ toxicity (single exposure):** This material has been classified as a Category 3 Hazard. Exposure via inhalation may result in depression of the central nervous system.

## **Chronic Toxicity**

**Mutagenicity:** This material has been classified as non-hazardous.

Carcinogenicity: This material has been classified as a Category 2 Hazard.

Reproductive toxicity (including via lactation): This material has been classified a Category 2 Hazard.

**Specific target organ toxicity (repeat exposure):** This material has been classified as a Category 1 Hazard. Exposure via inhalation may result in damage to the liver and kidneys.

Product name: CHLOROFORM AR 99.8% SDS No: DLXPNGEN001684

Issued: 1 October 2015 Version: 1.0 Page: 6 of 8



#### 12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

Acute aquatic hazard: No information is available to complete an assessment.

Long-term aquatic hazard: No information is available to complete an assessment.

**Ecotoxicity:** No information available.

Persistence and degradability: No information available.

Bioaccumulative potential: No information available.

**Mobility:** No information available.

#### 13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations.

#### 14. TRANSPORT INFORMATION

### **ROAD AND RAIL TRANSPORT**

Classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

**UN No:** 1888

**Dangerous Goods Class:** 6.1 Toxic Substance

Packing Group: III
Hazchem Code: 2Z
Emergency Response Guide No: 34

**Proper Shipping Name:** CHLOROFORM

**Segregation Dangerous Goods:** Not to be loaded with explosives (Class 1), nitromethane, food and food packaging in any quantity, however exemptions may apply.

#### MARINE TRANSPORT

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

**UN No:** 1888

**Dangerous Goods Class:** 6.1 Toxic Substance

Packing Group:

Proper Shipping Name: CHLOROFORM

Product name: CHLOROFORM AR 99.8% SDS No: DLXPNGEN001684

Issued: 1 October 2015 Version: 1.0 Page: 7 of 8



#### **AIR TRANSPORT**

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

**UN No:** 1888

**Dangerous Goods Class:** 6.1 Toxic Substance

Packing Group:

Proper Shipping Name: CHLOROFORM

#### 15. REGULATORY INFORMATION

#### This material is not subject to the following international agreements:

Montreal Protocol (Ozone depleting substances)

The Stockholm Convention (Persistent Organic Pollutants)

The Rotterdam Convention (Prior Informed Consent)

International Convention for the Prevention of Pollution from Ships (MARPOL)

#### This material is subject to the following international agreements:

Basel Convention (Hazardous Waste)

Halogenated organic solvents

#### This material/constituent(s) is covered by the following requirements:

- The Standard for the *Uniform Scheduling of Medicines and Poisons (SUSMP*) established under the *Therapeutic Goods Act (Commonwealth*).
- All the constituents of this material are listed on the *Australian Inventory of Chemical Substances* (AICS).

## **16. OTHER INFORMATION**

#### Literary reference

This Safety Data Sheet has been prepared by Chemical Data Services Pty Ltd (chemdata.com.au) on behalf of its client.

Reason(s) For Issue: First Issue

Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

This SDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the workplace. Since DuluxGroup (Australia) Pty Ltd and DuluxGroup (New Zealand) Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this SDS in the context of how the user intends to handle and use the product in the workplace.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.

Product name: CHLOROFORM AR 99.8% SDS No: DLXPNGEN001684

Issued: 1 October 2015 Version: 1.0 Page: 8 of 8