

## Material Safety Data Sheet Chlorinated Paraffin

### Section 1 - Product Identification

Synonyms : Chlorinated Alkanes C14-17, (52% chlorination); Chlorinated Paraffin Wax;  
Chloroparaffine CP52  
Molecular Weight : 411.4 g/mol  
Chemical Formula :  $C_{12}H_{19}Cl_7$   
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Recommended use of the chemical and restrictions on use  
The product is used in industrial applications, in particular in :

- Flame retardants
- Plasticisers

### Section 2 – Composition/Information on Ingredients

Chemical Name	CAS No	Purity, %
Alkanes, C14-17, chloro-	85535-85-9	>99.5%

### Section 3 – Hazards Identification

#### 3.1 Classification of the substance according to GHS

##### Acute Aquatic Toxicity 1

H410 Very toxic to aquatic life with long lasting effects.

##### Toxic to reproduction

H362 May cause harm to breast-fed children.

#### 3.2. GHS Label elements, including precautionary statements



Warning

H410 Very toxic to aquatic life with long lasting effects.  
H362 May cause harm to breast-fed children.

#### Precautionary Statement(s):

##### Prevention:

P201 Obtain special instructions before use.  
P260 Do not breathe mist, vapours, spray.  
P263 Avoid contact during pregnancy / while nursing.  
P264 Wash hands thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P273 Avoid release to the environment.

**Response:**

P308+P313 IF exposed or concerned: Get medical advice/attention.  
P391 Collect spillage.

**Storage:**

No storage statements.

**Disposal:**

P501 Dispose of contents and container in accordance with local, regional, national, international regulations.

**3.3. Other hazards which do not result in classification**

AUH066 Repeated exposure may cause skin dryness or cracking.

## Section 4 – First-Aid Measures

### 4.1. Description of first aid measures

**Skin contact**

If skin contact occurs, remove contaminated clothing and wash skin with running water. If irritation occurs seek medical advice.

**Eye contact**

If in eyes, wash out immediately with water. In all cases of eye contamination it is a sensible precaution to seek medical advice.

**Inhalation**

Remove victim from area of exposure - avoid becoming a casualty. Seek medical advice if effects persist.

**Ingestion**

Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water. Seek medical advice.

**Note to physicians**

Treat symptomatically.

### 4.2. Most important symptoms and effects, both acute and delayed

N.A.

### 4.3. Indication of any immediate medical attention and special treatment needed

N.A.

## Section 5 – Fire Fighting Measures

### 5.1. Suitable Extinguishing media

Not combustible, however, if material is involved in a fire use: Alcohol resistant foam is the preferred firefighting medium but, if it is not available, normal protein foam can be used.

### 5.2. Specific hazards arising from the chemical

Non-combustible material. Decomposes on heating emitting toxic fumes including those of hydrogen chloride, chlorine, oxides of carbon and other compounds of chlorine. Environmentally hazardous.

### 5.3. Special protective actions for fire-fighters

Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition. Decomposes on heating emitting toxic fumes. If safe to do so, remove containers from path of fire.

## Section 6 – Accidental Release Measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contact and breathing in vapours. Work up wind or increase ventilation.

## **6.2. Environmental precautions**

Clear area of all unprotected personnel. Wear protective equipment to prevent skin and eye contact. Avoid breathing in vapours. Work up wind or increase ventilation. Do not allow container or product to get into drains, sewers, streams or ponds. If contamination of sewers or waterways has occurred advise local emergency services.

## **6.3. Methods and material for containment and cleaning up**

### **Land spill)**

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.

### **Spillage into water**

Where possible, remove any intact containers from the water. Advise local water authority that none of the affected water should be used for irrigation or for the abstraction of potable water until natural dilution returns the boron value to its normal environmental background level.

## **Section 7 – Handling and Storage**

### **7.1. Precautions for safe Handling**

Avoid skin and eye contact and breathing in vapour, mists and aerosols.

### **7.2. Conditions for safe storage, including any incompatibilities**

Store in a cool, dry, well ventilated place. Protect from temperatures above 40°C. Store in original container. Store away from incompatible materials described in Section 10. Keep containers closed when not in use - check regularly for leaks.

## **Section 8 – Exposure Controls/Personal Protection**

### **8.1. Control parameters**

No value assigned for this specific material by Safe Work Australia.

### **8.2. Appropriate engineering controls**

Use in well ventilated areas. Keep containers closed when not in use.

### **8.3. Individual protection measures, such as personal protective equipment (PPE)**

Wear overalls, safety glasses and impervious gloves. Always wash hands before smoking, eating, drinking or using the toilet. If determined by a risk assessment an inhalation risk exists, wear an organic vapour respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

## **Section 9 – Physical and Chemical Properties**

### **9.1. Information on basic physical and chemical properties**

Appearance : Clear liquid

Odour : Slight odour

Odour threshold : N.A.

pH @ 20°C : N.A.

Boiling point : >200°C

Flash point : Non flammable

Evaporation rate : N.A.

Flammability : N.A.

Upper/lower flammability or explosive limits : N.A.

Vapour pressure : N.A.

Vapour density : N.A.

Relative density : N.A.

Solubility in water : Insoluble

Partition coefficient: n-octanol/water : N.A

Auto-ignition temperature : N.A.

Decomposition temperature : N.A.

Viscosity : 10-20 Ps @25°C

### **9.2. Other information**

Molecular weight : 411.4 g/mol  
Specific gravity : 1.10-1.45 @ 25°C

## Section 10 – Stability and Reactivity

### 10.1. Reactivity

Non-reactive

### 10.2. Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

### 10.3. Possibility of hazardous reactions

Can react with alkali metals and alkaline earth metals which have a strong affinity for chlorine. Can react with iron, zinc and aluminium at high temperatures leading to decomposition.

### 10.4. Conditions to avoid:

Avoid exposure to heat, sources of ignition, and open flame. Prolonged heating at temperatures in excess of 70°C or heating above 200°C for short periods of time will result in decomposition and liberation of hydrogen chloride. Avoid contact with oxidising agents.

### 10.5. Incompatible materials

Incompatible with strong oxidising agents. Incompatible with alkali metals and alkaline earth metals. Incompatible with heat and hot surfaces.

### 10.6. Hazardous decomposition products

Hydrogen chloride. Oxides of carbon. Chlorine compounds. Chlorine.

## Section 11 – Toxicological Information

### 11.1. Information on toxicological effect

#### 11.1.1. Substances

##### Acute toxicity<sup>(2)</sup>

Oral LD50 (rat): >2000 mg/kg

##### Skin corrosion / irritation

Contact with skin may result in irritation. Repeated exposure may cause skin dryness or cracking.

##### Serious eye damage/ irritation

May be an eye irritant.

##### Respiratory or skin sensitization

Not a skin sensitizer.

##### STOT-single exposure

N.A.

##### STOT-repeated exposure

N.A.

##### Aspiration Hazard

N.A.

## Section 12 – Ecological Information

Ecotoxicity: Avoid contaminating waterways.

Aquatic toxicity: Very toxic to aquatic organisms. May cause long lasting harmful effects to aquatic life.

## Section 13 – Disposal Considerations

### 13.1. Disposal methods

Refer to Waste Management Authority. Dispose of contents and container in accordance with local, regional, national, international regulations.

## Section 14 – Transport Information

### Road and Rail Transport

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by

Road and Rail; DANGEROUS GOODS.

Environmentally Hazardous Substances meeting the descriptions of UN 3077 or 3082 are not subject to the provisions of the Australian Code for the Transport of Dangerous Goods by Road and Rail when transported by road or rail in packagings, IBC's, or any other receptacle not exceeding 500 kg(L).

UN No.: 3082

Transport Hazard Class: 9 Miscellaneous Dangerous Goods

Packing Group III

Proper Shipping Name or Technical Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(ALKANES, C14-17, CHLORO-)

Hazchem or Emergency Action Code: 3Z

## Section 15 – Regulatory Information

### 15.1. Safety, health and environmental regulations

Classification:

This material is hazardous according to Safe Work Australia; HAZARDOUS CHEMICAL.

Classification of the chemical:

Toxic to Reproduction - Effects on or via lactation

Acute Aquatic Toxicity - Category 1

Chronic Aquatic Toxicity - Category 1

Hazard Statement(s):

H362 May cause harm to breast-fed children.

H410 Very toxic to aquatic life with long lasting effects.

Poisons Schedule (SUSMP): None allocated.

## Section 16 : Additional Information

### 16.1. Mainly changes made to the previous version of this Material Safety Data Sheet (MSDS):

- This MSDS complies with ISO 11014; the requirements of UN-GHS

Revision No	Revision content
05	<ul style="list-style-type: none"><li>• This SDS is updated in accordance with the GHS (Rev.6) (2015)-Guidance on the Compilation of Safety data Sheets.</li><li>• This SDS is updated in line with Eti Maden Corporate identity.</li></ul>

### 16.2. List of abbreviation and acronyms used in this MSDS

**SDS** : Safety Data Sheets

**Index N°** : atomic number of the element most characteristic of the properties of the substance

**CAS No** : Chemical Abstracts Service number

**EC No** : EINECS Number : European Inventory of Existing Commercial Substances

**Repr. Cat. 2** : Substance presumed human reproductive toxicant

**Acute Oral Cat. 5** : Substance which is of relatively low acute oral toxicity.

**GHS** : Globally Harmonised System of Classification and Labelling

**LD<sub>50</sub>** : Median Lethal Dose

**LC<sub>50</sub>** : Lethal Concentration, 50%

**N.A.** : Not Applicable

**OSHA** : Occupational Safety & Health Administration

**Cal OSHA** : The State of California Division of Occupational Safety and Health (DOSH)

**PEL** : Permissible Exposure Limits

**ACGIH** : American Conference of Governmental Industrial Hygienists

**TLV** : Threshold Limit Value

**Japanese MITI** : Japanese Ministry of International Trade and Industry

**EC<sub>50</sub>** : Half maximal effective concentration

**UN** : United Nations

**U.S. EPA TSCA Inventory**: Inventory of the chemical substances manufactured or processed in the United States according to Toxic Substances Control Act compiled and published under the authority of the Environmental Protection Agency

**Canadian DSL**: Canadian Domestic Substances List

### **16.3. List of relevant hazard statements and precautionary statements used in this MSDS**

#### **Hazard Statement**

**H361 d**: Suspected of damaging the unborn child

**H319**: Causes serious eye irritation

**H303**: May be harmful if swallowed

#### **Precautionary Statements**

##### **Prevention:**

P201 Obtain special instructions before use.

P260 Do not breathe mist, vapours, spray.

P263 Avoid contact during pregnancy / while nursing.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

##### **Response:**

P308+P313 IF exposed or concerned: Get medical advice/attention.

P391 Collect spillage.

##### **Storage:**

No storage statements.

##### **Disposal:**

P501 Dispose of contents and container in accordance with local, regional, national, international regulations.**16.4.**

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