

# SAFETY DATA SHEET

according to the Global Harmonized System and GB standard

# 2HP

Date: 8/02/2018 Version 1

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**Product Information** 

Trade name : PALM SECONDARY AMINE

Use of the : Specific use(s): Fuel additive Substance/Mixture

Surfactant

Company : Chem International, Inc.

> 6099 Ponders Court Greenville, SC 29615

Telephone : +1 864-458-7868 Telefax +1 864-458-7783

Emergency telephone

number

: CHEMTREC: 800-424-9300 (inside U.S. and Canada)

# 2. HAZARDS IDENTIFICATION

**GHS Classification** 

Acute aquatic toxicity : Category 1 Chronic aquatic toxicity Category 1

**GHS** Label element

Hazard pictograms

Signal word : Warning

: H410 Very toxic to aquatic life with long lasting effects. Hazard statements

Precautionary statements : Prevention:

P273 Avoid release to the environment.

Response:

P391 Collect spillage.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.



# Other hazards which do not result in classification

No further data available.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Substance

### Hazardous substance

Chemical Name	CAS-No.	Classification	Concentration [%]
Di C14-18 alkylamines	68037-98-9	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute): 1 M-Factor (Chronic): 10	<= 100

For the full text of the H-Statements mentioned in this Section, see Section 16.

## 4. FIRST AID MEASURES

General advice : No hazards which require special first aid measures.

Inhalation : Obtain medical attention immediately.

Skin contact : Remove contaminated clothing.

Carefully remove paste or solidified product.

Wash skin immediately with 0,5 % acetic acid in water, and

then with soap and water.

Skin irritation, if untreated may be prolonged and serious (eg necrosis). This may be prevented by early treatment with

medium strength corticosteroids.

Eye contact : In case of contact with eyes, rinse immediately with 0.5%

acetic acid in water for a few minutes, followed by rinsing with plenty of water for as long as possible. Eyelids should be held

away from the eyeball to ensure thorough rinsing.

Get medical attention immediately. Continue to rinse during

transport.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

Ingestion : Clean mouth with water and drink afterwards plenty of water.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

Notes to physician

Symptoms : No information available.

Risks : No information available.

Treatment : No information available.

## 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Date: 8/02/2018 Version 1

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during

firefighting / Specific hazards arising from the chemical

Treat as oil fire.

Do not use a solid water stream as it may scatter and spread

Water spray may be ineffective unless used by experienced

firefighters.

Do not allow run-off from fire fighting to enter drains or water

courses.

Combustion products : Carbon oxides

nitrogen oxides (NOx)

Special protective equipment

for firefighters

: In the event of fire, wear self-contained breathing apparatus.

Further information Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Ensure adequate ventilation.

Environmental precautions Do not flush into surface water or sanitary sewer system.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods for cleaning up /

Methods for containment

: Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

Additional advice : For personal protection see section 8.

### 7. HANDLING AND STORAGE

Handling

Advice on safe handling For personal protection see section 8.

Dispose of rinse water in accordance with local and national

regulations.

Advice on protection against

fire and explosion

Provide appropriate exhaust ventilation at places where dust

is formed.

Storage

Requirements for storage areas and containers

Keep container tightly closed in a dry and well-ventilated

place.

Avoid elevated temperatures

Reacts with copper, aluminium, zinc and their alloys.

Other data : No decomposition if stored and applied as directed.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Components with workplace control parameters

Contains no substances with occupational exposure limit values.

### Appropriate engineering controls

Provide eyewash station and safety shower. Keep solutions of 0.5% acetic acid in water close at hand.

Personal protective equipment

Hand protection : Nitrile rubber

butyl-rubber

Eye/face protection : Tightly fitting safety goggles

Skin and body protection : Protective suit

Hygiene measures : Avoid contact with skin, eyes and clothing.

Dry-clean contaminated clothes before reuse.

**Environmental exposure controls** 

General advice : Do not flush into surface water or sanitary sewer system.

If the product contaminates rivers and lakes or drains inform

respective authorities.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** 

Form : solid

Colour : white

Odour : ammoniacal

Odour Threshold : no data available

Safety data

pH : not applicable

Melting point/range : 60 - 64 °C

Boiling point/boiling range : > 300 °C

Flash point : > 200 °C

Evaporation rate : not applicable

Flammability (solid, gas) : The product is not flammable.

Lower explosion limit : not applicable

Upper explosion limit : not applicable

Vapour pressure : < 0.1 hPa at 20 °C

Relative vapour density : not applicable

Relative density : 0.81 at 20 °C

Water solubility : insoluble

Solubility in other solvents : no data available

Partition coefficient: n-

octanol/water

: no data available

Auto-ignition temperature : no data available

Decomposition temperature : no data available

Viscosity, dynamic : at 20 °C

not applicable

Viscosity, kinematic : at 20 °C

not applicable

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

### 10. STABILITY AND REACTIVITY

Conditions to avoid : None known.

Materials to avoid : Reacts with copper, aluminium, zinc and their alloys.

Hazardous decomposition

products

: No hazardous decomposition products are known.

Thermal decomposition : no data available

Reactivity : Stable under normal conditions.

Chemical stability : Stable under recommended storage conditions.

Hazardous reactions : No dangerous reaction known under conditions of normal use.

### 11. TOXICOLOGICAL INFORMATION

## PRODUCT INFORMATION:

**Hazard Summary** 

Inhalation : Not expected to be irritating.

Skin : The product may be absorbed through the skin.

Eyes : Vapour in the eyes may cause irritation and pain.

Ingestion : Not expected to be irritating.

**Toxicology Assessment** 

Further information : No further data available.

### TOXICOLOGY DATA FOR THE COMPONENTS:

### Test result

Component: Di C14-18 alkylamines

Acute oral toxicity : LD50: > 5,000 mg/kg

Species: rat

Read-across (Analogy)

Skin irritation : Species: rabbit

Result: No skin irritation Read-across (Analogy)

Eye irritation : Species: rabbit

Result: No eye irritation Read-across (Analogy)

## 12. ECOLOGICAL INFORMATION

# PRODUCT INFORMATION:

**Ecotoxicology Assessment** 

Results of PBT assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher.

Additional ecological

information

An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Very toxic to aquatic life with long lasting effects.

### **COMPONENTS:**

## **Ecotoxicology Assessment**

## Component: Di C14-18 alkylamines

Results of PBT assessment : This substance is not considered to be a PBT (Persistent,

Bioaccumulation, Toxic)

This substance is not considered to be vPvB (very Persistent

nor very Bioaccumulating)

### Test result

### Component: Di C14-18 alkylamines

**Ecotoxicity effects** 

Toxicity to fish : LC50: > 0.1 - 1 mg/l

Exposure time: 96 h Species: Fish

Read-across (Analogy)

Toxicity to daphnia and other

aquatic invertebrates

: EC50: > 0.1 - 1 mg/l Exposure time: 48 h

Species: Daphnia magna (Water flea)

Read-across (Analogy)

Toxicity to algae : IC50: > 0.1 - 1 mg/l

Exposure time: 72 h Species: algae

Read-across (Analogy)

EC10: > 0.0001 - 0.001 mg/l

Exposure time: 72 h

Species: Pseudokirchneriella subcapitata (green algae)

Read-across (Analogy)

M-Factor : 1

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: NOEC: > 0.001 - 0.01 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

Read-across (Analogy)

Elimination information (persistence and degradability)

Bioaccumulation : Bioaccumulation is unlikely.

Mobility : immobile

Biodegradability : Result: Not readily biodegradable.

Read-across (Analogy)

Further information on ecology

Biochemical Oxygen

Demand (BOD)

: no data available

13. DISPOSAL CONSIDERATIONS

Product : The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Hazardous waste

Dispose of contents/container in accordance with local

regulation.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product.

### 14. TRANSPORT INFORMATION

## International regulation

**IATA-DGR** 

UN/ID No. : UN 3077

Proper shipping name : Environmentally hazardous substance, solid, n.o.s.

(Alkylamine)

Class : 9
Packing group : III
Labels : 9
Packing instruction (cargo : 956

aircraft)

Packing instruction : 956

(passenger aircraft)

Packing instruction (LQ) : Y956 Environmentally hazardous : yes

IMDG-Code

UN number : UN 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(Alkylamine)

Class : 9
Packing group : III
Labels : 9
EmS Code

EmS Code : F-A, S-F Marine pollutant : yes

(Alkylamine)

## Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

# **National Regulations**

GB 12268

UN number : UN 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(Alkylamine)

Class : 9
Packing group : III
Labels : 9
Environmentally hazardous : yes

## 15. REGULATORY INFORMATION

### **Notification status**

CH INV : YES. On the inventory, or in compliance with the inventory

TSCA : YES. All chemical substances in this product are either listed on the

TSCA Inventory or in compliance with a TSCA Inventory exemption.

DSL : YES. All components of this product are on the Canadian DSL. AICS : YES. On the inventory, or in compliance with the inventory

NZIoC : NO. Not in compliance with the inventory

ENCS : YES. On the inventory, or in compliance with the inventory ISHL : YES. On the inventory, or in compliance with the inventory

KECI : NO. Not in compliance with the inventory PICCS : NO. Not in compliance with the inventory

IECSC : YES. On the inventory, or in compliance with the inventory

For explanation of abbreviation see section 16.

### **Further information**

Law on Prevention and Control of Environment Pollution by Solid Waste

Regulation on the Safety Management of Hazardous Chemicals

Provisions on the Safe Use of Chemicals at Workplace

GB13690: General rule for classification and hazard communication of chemicals

## National regulatory information

### **Further information**

: In case of contact with eyes, rinse immediately with 0.5% acetic acid in water for a few minutes, followed by rinsing with plenty of water for as long as possible. Eyelids should be held

away from the eyeball to ensure thorough rinsing.

Wash skin immediately with 0,5 % acetic acid in water, and

then with soap and water.

### 16. OTHER INFORMATION

### **Full text of H-Statements**

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

### Notification status explanation

CH INV Switzerland. New notified substances and declared preparations

TSCA United States TSCA Inventory

DSL Canadian Domestic Substances List (DSL)

AICS Australia Inventory of Chemical Substances (AICS)
NZIOC New Zealand. Inventory of Chemical Substances

ENCS Japan. ENCS - Existing and New Chemical Substances Inventory

ISHL Japan. ISHL - Inventory of Chemical Substances (METI)
KECI Korea. Korean Existing Chemicals Inventory (KECI)

PICCS Philippines Inventory of Chemicals and Chemical Substances

(PICCS)

IECSC China. Inventory of Existing Chemical Substances in China (IECSC)

### **Further information**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.