

Material Safety Datasheet

CAS No
Date Issued: 2015/10/19
Empigen OB/AF

Company Details

Name **Kayo Fine Chemicals**
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 Tel. No: 0118933876
 Plot 24 Pulp Road
 Klippoortjie Agricultural Lots
 Germiston

1. Product and Company Identification
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Trade / Commercial Name **Empigen OB/AF**
Chemical Name Alkyl Dimethyl Amine 30% solution
Formula
Chemical Family
Synonyms

<u>Un No</u>	3082	<u>Hazchem Code</u>	3xc
<u>ERG No</u>	171	<u>EAC</u>	31

2. Hazards Identification

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Directive 1999/45/EC [DPD]

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification :Xi; R41, R38

N; R50

Human health hazards : Risk of serious damage to eyes. Irritating to skin.

Environmental hazards : Very toxic to aquatic organisms.

See Section 16 for the full text of the R phrases or H statements declared above

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard symbol or symbols

Indication of danger : Irritant, Dangerous for the environment

Risk phrases : R41- Risk of serious damage to eyes.

R38- Irritating to skin.

R50- Very toxic to aquatic organisms

Safety phrases : S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S39- Wear eye/face protection.

S61- Avoid release to the environment. Refer to special instructions/safety sheet.

Hazardous ingredients : Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides

Supplemental label : Not applicable.

elements

Supplemental label :None.

elements

Special packaging requirementsContainers to be fitted :Not applicable.

with child-resistant

fastenings

Tactile warning of danger :Not applicable.

2.3 Other hazards

Other hazards which do :Not available
not result in classification

3. Composition

Hazardous Components

environmentally hazardous substance, liq, NOS
Product/ingredient Identifiers % Classification Type
67/548/EEC Regulation (EC) No.1272/2008 [CLP]
Amines, C12-14 (even CAS: Not available. Xn; R22 Acute Tox. 4, H302 [1]
numbered)- EC: Not available. Xi; R41, R38 Skin Irrit. 2, H315
alkyldimethyl, N-oxides RRN: N; R50 Eye Dam. 1, H318
Aquatic Acute 1, H400
01-2119490061-47 Aquatic Chronic 2, H411
See Section 16 for See Section 16 for the
the full text of the Rphrases full text of the H
statements declared
above.
declared above

There are no additional ingredients present which, within the current knowledge of the
supplier and in the
concentrations applicable, are classified as hazardous to health or the environment and
hence require reporting in this
section.

3. Composition/information on ingredients

[1] Substance classified with a health or environmental hazard
[2] Substance with a workplace exposure limit
[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006,
Annex XIII
[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006,
Annex XIII
Occupational exposure limits, if available, are listed in Section 8.

Other means of identification

REACH Product name CAS no. Other CAS no.

Amines, C12-14 (even numbered)- N/A Amines, C12-16-alkyldimethyl, N-oxides
85408-49-7
alkyldimethyl, N-oxides

4. First Aid Measures

First Aid Skin

Remove & isolate contaminated clothing, including shoes.
Flush skin with running water for 20 minutes.

First Aid Eyes

Flush eyes with water for 20 minutes.
Hold eyelids open while washing.

First Aid Ingested

Seek medical treatment.

First Aid Inhalation

Move victim to fresh air.
If not breathing give artificial respiration.
If breathing of victim is difficult administer oxygen for a maximum period of one hour.

5. Fire Fighting Measures

Small Fires: Dry chemical, CO2, water spray or regular foam.
Large Fires: Water spray, fog or regular foam.
Move containers from fire area if you can do it without risk.
Do not scatter spilled material with high pressure water streams.

Dike fire-control water for later disposal.

Fire involving Tanks: Cool containers with flooding quantities of water until well after fire is out.

Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.

ALWAYS stay away from the ends of tanks.

Isolate spill or leak area immediately for at least 10 to 25 metres (30 to 80 feet) in all directions.

Keep unauthorized personnel away. Stay upwind.

Wear positive pressure self-contained breathing apparatus (SCBA).

Structural firefighters' protective clothing will only provide limited protection.

If ROAD OR RAIL TANKER is involved in a fire, ISOLATE for 800 metres (1/2 mile) in all directions;

also, consider initial evacuation for 800 metres (1/2 mile) in all directions.

6. Accidental Release Measures

Full protective clothing including breathing apparatus

Contain (avoid spillage from entering drains or water courses)

PRECAUTIONS:

Restrict access to area.

Provide adequate protective equipment and ventilation.

Remove sources of heat and flame.

Notify occupational and environmental authorities.

SPILL OR LEAK:

Do not touch or walk through spilled material.

Stop leak if you can do it without risk.

Small Spills

Take up with sand or other noncombustible absorbent material and place into containers for later disposal.

Large Spills

Dike far ahead of liquid spill for later disposal.

Prevent entry into waterways, sewers, basements or confined areas.

7. Handling And Storage

7.1 Precautions for safe handling

Protective measures: Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. Refer to special instructions/safety data sheet. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general

occupational hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures

7.2 Conditions for safe

storage, including any

incompatibilities : Store between the following temperatures: 5 to 40°C (41 to 104°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

7.3 Specific end use(s)

Recommendations : Not available

Industrial sector specific : Not available solutions

8. Exposure Controls/Personal Protection

Occupational Exposure Limits

No exposure limit value known.

Recommended monitoring :If this product contains ingredients with exposure limits, procedures personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory

protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

Derived effect levels:

Product/ingredient name Type Exposure Value Population Effects

Amines, C12-14 DNEL Long term 3.825 mg/ Consumers ----

(even numbered)- Inhalation m³

alkyldimethyl, N-oxides

DNEL Long term 0.44 mg/ Consumers Systemic

Oral kg bw/day

DNEL Long term 11 mg/kg Workers Systemic

Dermal bw/day

DNEL Long term 15.5 mg/m³ Workers Systemic

Inhalation

DNEL Long term 5.5 mg/kg Consumers Systemic

bw/day

Dermal

Predicted effect concentrations:

Product/ingredient name Type Compartment Detail Value Method Detail

Amines, C12-14 PNEC Secondary Poisoning 11.1 mg/kg Assessment (even numbered)-

Factors

alkyldimethyl, N-oxides PNEC Fresh water sediment 5.24 mg/kg Equilibrium

Partitioning

PNEC Fresh water 0.0335 mg/l Assessment Factors

PNEC Sewage Treatment 24 mg/l Assessment

Plant Factors

PNEC Marine water sediment 0.524 mg/kg Equilibrium

Partitioning

PNEC Marine 0.00335 mg/l Assessment

Factors

PNEC Soil 1.02 mg/kg Equilibrium

Partitioning

Controls

The control measures appropriate for a particular worksite depend on how this material is used and on the extent of exposure.

The best protection is to enclose operations and/or provide local exhaust ventilation at the site of chemical release.

Use a non-sparking, grounded ventilation system separate from other exhaust ventilation systems. Exhaust directly to the outside.

Supply sufficient replacement air to make up for air removed.

Have a safety shower/eye wash fountain readily available in the immediate work area

Personal Protection

If engineering controls and work practices are not effective in controlling this material, then wear suitable personal protection

equipment, including chemical safety goggles & face shield, boots, imperious gloves, coveralls, & respiratory protection.

Have appropriate equipment available for use in emergencies.

9. Physical & Chemical Properties

Liquid.

Colour : Colourless.

Odour :Characteristic.

pH :7 to 9 [Conc. (% w/w): 1%]

Odour threshold:Not available :<0°C

Melting point/freezing point :Not available.

Initial boiling point and boiling range

Evaporation rate :Not available.
 Flash point :Evaporation rate Not available.
 Flammability (solid, gas) : Not applicable.
 Burning time : Not applicable.
 Burning rate : Not applicable.
 Viscosity : Dynamic (20°C): <150 mPa·s
 Kinematic: Not available.
 Kinematic (40°C): Not available
 Density :0.97 g/cm³ [20°C (68°F)]

Upper/lower flammability or : Not applicable.
 explosive limits
 Vapour pressure : Not applicable.
 Relative density : Not applicable.
 Vapour density :
 Relative density :0.97
 Solubility(ies)
 Water solubility :409.5 g/l
 20 deg C
 Other :Easily soluble in the following materials: cold water and hot water

10. Stability And Reactivity

<u>Conditions to Avoid</u>	Stable.
<u>Incompatible Materials</u>	Non-reactive or compatible with the following materials: oxidizing materials, acids, Non-reactive or compatible with the following materials: oxidizing materials, acids, alkalis and moisture carbon monoxide, carbon dioxide, Nitrogen oxides
<u>Other</u>	None.

11. Toxicological Information

Inhalation of material may be harmful.
 Contact may cause burns to skin and eyes.

12. Ecological Information

Ecotoxicological data have not been determined specifically for this product.

13. Disposal Considerations

<u>Disposal Method Product</u>	There are no uniform EC regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding laws and regulations. We recommend that you contact the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste.
<u>Disposal Method Packaging</u>	Disposal in accordance with local legal provisions.

14. Transport Information

<u>UN No</u>	3082	<u>Hazchem Code</u>	3xe
<u>ERG No</u>	171	<u>EAC</u>	31
<u>IMDG-Shipping Name</u>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.		
<u>IMDG Code</u>	9	<u>IMDG-Packaging Group</u>	III
<u>Marine Pollutant</u>	Yes		
<u>Class</u>	Class: 9 Miscellaneous Group: III		
<u>Subsidiary Risks</u>	None		

15. Regulatory Information

<u>EEC Hazard Classification</u>	9
<u>Risk Phases</u>	Danger of cumulative effects
<u>Safety Phases</u>	This material and its container must be disposed of in a safe way
<u>National Legislation</u>	

16. Other Information

Reason for Alteration: General update.

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properness of the product.

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LAST PAGE

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