

# Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006



**ORGANOMETAL sa**

Product name: **ORGANO Ca 4N**

Revision Date:01.02.2015

Edition:05

Print date:20.02.2015

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

### 1.1 Product identifier

Trade name: ORGANO Ca 4N  
REACH Registration No.: 01-2119978297-19-0001, 01-2119458049-33-0001

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use: See Section 7.3  
Uses advised against: None

### 1.3 Details of the supplier of the safety data sheet

Company: ORGANOMETAL SA  
Address: G, Androutsou 5 Koukaki Athens  
Telephone: +30 22620 30982  
Fax: +30 22620 56646  
E-mail: [info@organometal.gr](mailto:info@organometal.gr)  
Information about the MSDS: Kougias Ioannis, [sales@organometal.gr](mailto:sales@organometal.gr)

### 1.4 Emergency telephone number

+30 210 7793777-9

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

*Classification (REGULATION (EC) No 1272/2008)*

Flammable liquids, Category 3 H226: Flammable liquid and vapour.  
Eye Damage 1 H318: Causes serious eye damage.  
Reproductive Toxicity Category 2 H361: Suspected of damaging fertility or the unborn child. (H361d)  
STOT SE 3 H336: May cause drowsiness or dizziness.  
STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.  
Aquatic Chronic 2 H411: Toxic to aquatic life with long lasting effects.  
EUH066 Repeated exposure may cause skin dryness or cracking

### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



GHS02



GHS08



GHS07



GHS05



GHS09

Signal word: Danger

Hazard statements  
H226: Flammable liquid and vapour.  
H318: Causes serious eye damage.  
H336: May cause drowsiness or dizziness  
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## 2. HAZARDS IDENTIFICATION

Precautionary statements: P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ ventilating/lighting/ ... / equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P201: Obtain special instructions before use.

**Response:** P202: Do not handle until all safety precautions have been read and understood.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P310: Immediately call a POISON CENTER or doctor/physician.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308+P313: IF exposed or concerned: Get medical advice/attention.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction

**Storage:** P403 + P235 + P233 Store in a well-ventilated place. Keep container tightly closed. Keep cool.

**Disposal:** P501 Dispose of container to an authorised company for waste treatment.

## 3. COMPOSITION /INFORMATION ON INGREDIENTS

Chemical nature: Solution of calcium carboxylate salt in mineral spirit.

Chemical name	EINECS No.	Cas No.	Classification 1272/2008	Concentration
Calcium bis 2-ethylhexanoate Reg. : 01-2119978297-19-0001	205-249-0	136-51-6	Reproductive Toxicity Category 2 H361 Eye damage 1 H318	35 - 40%
Mineral spirit aliphatic Reg. : 01-2119458049-33-0001	-	Reference Cas No.: 64742-82-1	Flam. Liq. 3; H226 Asp Tox. 1; H304 STOT SE 3; H336 STOT RE 1 H372 Aquatic Chronic 2; H411	60 - 65 %

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

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.

If inhaled : If unconscious place in recovery position and seek medical advice.  
If symptoms persist, call a physician.

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## 4. FIRST AID MEASURES

In case of skin contact :	If skin irritation persists, call a physician. If on skin, rinse well with water and soap. If on clothes, remove clothes.
In case of eye contact :	Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed :	Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Do not induce vomiting
Notes for the doctor:	If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately

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

Symptoms:

Inhalation	Can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.
Skin contact:	Can cause moderate skin irritation, defatting, and dermatitis.
Eye contact:	Eye contact may result in tearing and reddening, but not likely to permanently injure eye tissue. Temporary vision impairment (cloudy or blurred vision) is possible.
Ingestion:	Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea.
Risks:	Aspiration into the lungs can cause fatal chemical pneumonitis

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

Treatment: If nausea or irritation does not appear after ingestion, give 50 ... 100g medicinal carbon in water slurry.

## 5. FIRE FIGHTING MEASURES

### 5.1 Extinguishing media

Suitable extinguishing media:	Dry chemicals, CO <sub>2</sub> , Foam, water fog.
Extinguishing media which must not be used for safety reasons:	High volume water jet.

### 5.2 Special hazards arising from the substance or mixture

Specific hazards arising from the chemical decomposition.	Vapor is flammable and heavier than air. Vapor may travel across the ground and reach remote ignition sources, causing a flashback fire danger.
Hazardous combustion products	Smoke, Fume, Incomplete combustion products, Oxides of carbon.

### 5.3 Advice for fire-fighters

Special protective equipment for fire-fighters:	Wear self-contained breathing apparatus. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Use a water spray to cool fully closed containers.
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## 6. ACCIDENTAL RELEASE MEASURES

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

Personal precautions: Use personal protective equipment (gloves, clothes, mask)  
Ensure adequate ventilation system.  
Keep away from sources of ignition and high temperature.  
Avoid contact with spilled material. Warn or evacuate occupants in surrounding and downwind areas if required, due to toxicity or flammability of the material

### 6.2 Environmental precautions

Environmental precautions: Prevent entry into waterways, sewers, basements or confined areas  
In the event of a spill or accidental release, notify relevant authorities

### 6.3 Methods and materials for containment and cleaning up

Land Spill Eliminate all ignition sources. Stop leak if you can do so without risk. Equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Vapor-suppressing foam may be used to reduce vapor.

Large Spills: Water spray may reduce vapor, but may not prevent ignition in enclosed spaces. Recover by pumping or with suitable absorbent.

Water Spill Stop leak if you can do so without risk. Eliminate sources of ignition. Warn or evacuate occupants in surrounding and downwind areas if required, due to toxicity or flammability of the material. Seek the advice of a specialist before using dispersants.

For containment: Land Spill Use clean non-sparking tools to collect absorbed material. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers

For containment: Water Spill If the Flash Point exceeds the Ambient Temperature by 10 deg C or more, use containment booms and remove from the surface by skimming or with suitable absorbents when conditions permit. If the Flash Point does not exceed the Ambient Air Temperature by at least 10C, use booms as a barrier to protect shorelines and allow material to evaporate.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Advice on safe handling: Avoid contact.  
Keep away from sources of ignition.  
Do not eat, smoke or drink when using.  
When pumping use anti-explosive motors.  
Take precautionary measures against static discharges.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Open drum carefully as content may be under pressure.

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

Advice on safe storage Keep containers up, tightly closed, in dry and well ventilated place and away from heat and sources of ignition.

In case of repackaging use lacquered iron drums.

Advice on safe storage Keep containers up, tightly closed, in dry and well ventilated place and away from heat and sources of ignition.

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## 7. HANDLING AND STORAGE

### 7.3 Specific End Use(s)

Manufacture of calcium bis(2-ethylhexanoate)q

Formulation of coatings containing calcium bis(2-ethylhexanoate)q  
Industrial use of coatings containing calcium bis(2-ethylhexanoate)q  
Professional use of coatings containing calcium bis(2-ethylhexanoate)  
Consumer use of coatings  
Spraying of coatings by consumers  
Formulation of inks containing calcium bis(2-ethylhexanoate)q  
Industrial use of inks containing calcium bis(2-ethylhexanoate)q  
Professional use of inks containing calcium bis(2-ethylhexanoate)ø  
Consumer use of inks containing calcium bis(2-ethylhexanoate)ø

## 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

### 8.1 Control parameters

**Mineral spirit CAS No.: 64742-82-1**

National Limit Values Limit value 8 hrs 575mg/m<sup>3</sup>, 100ppm

National Limit Values Limit value short-term 720mg/m<sup>3</sup>, 125ppm

	<i>Acute Systemic Effects</i>	<i>Long-term Systemic effects</i>
Inhalation - workers	DNEL 570mg/m <sup>3</sup>	330 mg/m <sup>3</sup>
Dermal - workers	-	44 mg/kg bw/day
Inhalation - general population	DNEL 570mg/m <sup>3</sup>	71 mg/m <sup>3</sup>
Dermal - general population	-	26 mg/kg bw/day
Oral - general population	-	26 mg/kg bw/day

**Calcium bis(2-Ethyl hexanoate) CAS No.:136-51-6**

National Limit Values EH40 OES / TWA 8 hrs 5000mg/m<sup>3</sup>

	<i>Acute Systemic Effects</i>	<i>Long-term Systemic effects</i>
Inhalation - workers	-	DNEL 39.98 mg/m <sup>3</sup>
Dermal - workers	-	DNEL 5.67 mg/kg bw/day
Inhalation - general population	-	DNEL 9.86 mg/m <sup>3</sup>
Dermal - general population	-	DNEL 2.83 mg/m <sup>3</sup>
Oral - general population	-	DNEL 2.83 mg/m <sup>3</sup>

### 8.2 Exposure controls

Personal protective equipment

Respiratory protection:



In case of insufficient ventilation wear suitable respiratory equipment.  
Half-face filter respirator: Type filter material.

Skin and body protection:

Hand protection:



Avoid contact with the product. Wear long sleeved clothing.

Suitable gloves. Viton - Break through time: 120 min

Glove Materials: Nitrile, ( standards 420 and 374.

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## 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Eye protection:



Wear tightly fitting goggles.

Have near eyewash bottle with pure water.

Hygiene measures:

Wash hands before breaks and at the end of workday.

Gloves must to be worn on clean hands.

Environmental exposure controls

If the product contaminates rivers and lakes or drains inform respective authorities.

General advice :

Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform respective authorities.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Form:	Liquid
Colour:	Yellow, Gardner 2
Odour:	Characteristic mineral sprit
pH	Not applicable
Melting point:	-15
Boiling point:	140 °C
Ignition temperature:	41 °C
Lower explosion limit:	0.6% v/v
Upper explosion limit:	7% v/v
Vapour pressure:	231 kPa at 20C <sup>o</sup> for white spirit
Density:	0.880 gr./cm <sup>3</sup>
Solubility:	80.37 g/L at 20 °C for Calcium bis(2-ethylhexanoate)
Viscosity:	100 cSt

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

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### 10.2 Chemical stability

No decomposition if stored and applied as directed

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Will not occur.

### 10.4 Conditions to avoid:

Avoid heat, open flames, sparks.

### 10.5 Incompatible materials

Strong oxidizing agents.

### 10.6 Hazardous

#### decomposition products:

Carbon oxides, its metal containing substances.

Thermal decomposition:

Thermal decomposition dose not occur.

Other information:

Polymerization dose not occur.

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## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### *Acute oral toxicity:*

Calcium bis(2-ethylhexanoate)	Low toxicity: LD50 dosage for rat: >2000 mg/kg bw
White Spirit	LD50 > 15,000 mg/kg Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

#### *Repeated dose toxicity:*

Calcium bis(2-ethylhexanoate)	NOAEL of 36 mg/kg bw/day
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#### *Acute dermal toxicity:*

Calcium bis(2-ethylhexanoate)	Low toxicity:LD50 >2000 mg/kg bw
White spirit	LD50 > 4 ml/kg (~ LD50> 3400 mg/kg bw)

#### *Inhalation:*

Calcium bis(2-ethylhexanoate)	Waived - The substance is used and placed on market in non inhalable form
White spirit	LC50 > 13.1 mg/l

#### *Skin irritation:*

Calcium bis(2-ethylhexanoate)	Not irritating
White spirit	Not irritating

#### *Eye irritation:*

Calcium bis(2-ethylhexanoate)	Severely irritating to the eyes
White spirit	Not irritating

#### *Respiratory or skin sensitization*

Calcium bis(2-ethylhexanoate)	No respiratory sensitizer
White spirit	No respiratory sensitizer

#### *Sensitisation:*

Calcium bis(2-ethylhexanoate)	Not sensitizing
White spirit	Not sensitizing

#### *Carcinogenicity*

Calcium bis(2-ethylhexanoate)	Not carcinogenic
White spirit	Not carcinogenic

#### *Germ cell mutagenicity*

Calcium bis(2-ethylhexanoate)	Not mutagenic, non clastogenic
White spirit	Not mutagenic, non clastogenic

#### *Toxicity to reproduction:*

Calcium bis(2-ethylhexanoate)	NOAEL(rat; F1) = 100 mg/kg bw/day
White spirit	NOAEC (rat) 300ppm

#### *Target Organ Systemic Toxicant - Repeated exposure*

Calcium bis(2-ethylhexanoate)	-
White spirit	Danger of serious damage to nervous system by prolonged exposure through inhalation Repeated exposure may cause skin dryness or cracking

#### *Aspiration Hazard:*

Calcium bis(2-ethylhexanoate)	-
White spirit	-

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## 12. ECOLOGICAL INFORMATION

### 12.1 Eco toxicity Effects

*Calcium bis(2-ethylhexanoate)*

Fish toxicity:

LC50 for freshwater fish: 180 mg/L

Aquatic invertebrates

EC50/LC50 for freshwater invertebrates: 85.4 mg/L

Algae

EC50/LC50 for freshwater algae: 49.3 mg/L

Micro-organisms

No information available

*White Spirit*

Fish toxicity:

LL50 = 10-30 mg/L

Aquatic invertebrates

L50 = 10 - 22 mg/L

Algae

4.1 and 4.6 - 10 mg/l (two studies)

Micro-organisms

L50 = 43.98 mg/l

### 12.2 Biodegradability:

Readily biodegradable.

### 12.3 Bioaccumulation:

Bioaccumulative

### 12.4 Mobility:

Floats on water.

### 12.5 Results of PBT and vPvB

Not PBT or vPvB

### 12.5 Additional information

Toxic to aquatic organisms, may cause long-term adverse

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

Product:

Can be incinerated, when in compliance with local regulations.  
Product must not enter drains or contaminate soil.

Unclean Empty Packaging:

Empty containers should be taken for local recycling or waste disposal.

European Disposal code: 080199

Do not re-use empty containers.

Do not burn or use a cutting torch on the empty drum.

## 14. TRANSPORT INFORMATION

### Land transport

ADR/RID:

Class 3

Packaging Group:

UN- No:

3295

Shipping Labels:



### See transport

IMDG:

Class 3

Packaging Group:

UN- No:

3295

EmS

F-E-S-E

Marine pollutant:

Yes

Shipping Labels:





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## 15. REGULATORY INFORMATION

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

<b>EU regulations:</b>	91/155/ , 93/112/ and 99/45/ The components of the product are listed in EINECS inventory.
Major Accident Hazard Legislation	96/82/EC Update: 2003
Other Legislation	96/82/EC Dangerous for the environment. 96/69/EC The benzene content of this product is less than 0,1% Nota P applies. Classification and labelling as carcinogen R45 is not required.
National legislation	.

### 15.2 Chemical Safety Assessment

A Chemical Safety Assessment has been carried out for the substance Calcium bis(2-ethylhexanoate).

## 16. OTHER INFORMATION

Full text of the H-Statements mentioned in Section 3.

H226: Flammable liquid and vapour.

H318: Causes serious eye damage.

H411: Toxic to aquatic life with long lasting effects.

H304: May be fatal if swallowed and enters airways.

H336: May cause drowsiness or dizziness.

H361: Suspected of damaging fertility or the unborn child

Specific effect: H361d - Suspected of damaging the unborn child (developmental toxicity)

H372 Causes damage to organs through prolonged or repeated exposure.

### Additional information

The information in this document should be made available to all who handle the product.

The information given herein is based on our present state of knowledge and concern specifically the described material.

There is no guarantee when used in combination with other materials or to unknown applications.