

Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006



ORGANOMETAL sa

Product name: **ORGANO Pb 33**

Revision Date:10.01.2015

Edition:05

Print date:20.01.2015

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

1.1 Product identifier

Trade name: ORGANO Pb 33
REACH Registration No.: The registration numbers are not available for all the substances of this preparation as the annual production quantities of these substances do not require immediate registration.

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
Information about the MSDS: Kougias Ioannis, sales@organometa.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.
Acute Tox. 4 (oral) (inhalation) H302+H332: Harmful if swallowed or if inhaled.
Aquatic Chronic 2 H410: Very toxic to aquatic life with long lasting effects.
Reproductive Toxicity Category 1 H360(f,d): May damage fertility. May damage the unborn child.
STOT Rep. Exp. 1 H371: Cause damage to organs through prolonged or repeated exposure
STOT SE 3 H336: May cause drowsiness or dizziness.
EUH066 Repeated exposure may cause skin dryness or cracking

Classification according to Directive 67/548/EEC

Indication(s) of danger Risk phrases
Flamable F R10 Flammable
R20/22 Harmful by inhalation and if swallowed
Harmful: Xn R33 Danger of cumulative effects
R 48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation
Repr. Cat. 1 R61 May cause harm to the unborn child.
Repr. Cat. 2 R62 Possible risk of impaired fertility
Irritant: Xi R66 Repeated exposure may cause skin dryness or cracking
R67 Vapours may cause drowsiness and dizziness
Dangerous for the environment N R50/53 Very toxic to aquatic organisms, may cause long-term adverse

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2. HAZARDS IDENTIFICATION

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



GHS02



GHS08



GHS07



GHS09

Signal word:

DANGER

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.

P281: Use personal protective equipment as required.

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 lead carboxylate salt in mineral spirit

Chemical name	EINECS No. CAS No.	Classification 167/548/EEC	Classification 1272/2008	Concentration [%]
Lead bis 2-ethylhexanoate	206 -107-0 301-08-6	Xn ;20/22, 33, Repr. Cat. 1,2 ;R61,R62 ;50/53,	Rep. Tox. Cat.1 H360 f d H410 H332 H302 H372	80
Mineral spirit aliphatic REACH Reg. : 01-2119458049-33-0001	- Reference No.:64742-82-1	F ; R10 Xn ;R48/20, R65,67 Xi ;R66 ;51/53,	Flam. Liq. 3; H226 Asp Tox. 1; H304 STOT SE 3; H336 STOT RE 1; H372 Aquatic Chronic 2; H411	20

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

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4. FIRST AID MEASURES

4.1 Description of first aid measures

	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.
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

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.
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5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media:	Dry chemicals, CO ₂ , 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	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.

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5. FIRE FIGHTING MEASURES

5.3 Advice for fire-fighters

Special protective 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.

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.

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7. HANDLING AND STORAGE

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.

7.3 Specific End Use(s)

Formulation of coatings containing \pm lead bis(2-ethylhexanoate)q
Industrial use of coatings containing \pm lead bis(2-ethylhexanoate)q
Professional use of coatings containing Lead bis(2-ethylhexanoate)

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1 Control parameters

Mineral spirit Reference No.:64742-82-1

National Limit Values Limit value 8 hrs 575mg/m³, 100ppm

National Limit Values Limit value short-term 720mg/m³, 125ppm

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

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

National Limit Values EH40 OES / TWA 8 hrs 0,15mg/m³

	<i>Acute Systemic Effects</i>	<i>Long-term Systemic effects</i>
Inhalation - workers	-	NOAEL = 40 g/dL
Dermal - workers		
Inhalation - general population		NOAEL = 10 g/dL
Dermal - general population		
Oral - general population		

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 2-4
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° for white spirit
Density:	1.260 gr./cm ³
Solubility:	Not available
Viscosity:	300 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:

Lead bis(2-ethylhexanoate) Low toxicity: LD50 dosage for rat: >2000 mg/kg bw
White Spirit LD50 > 15,000 mg/kg

Repeated dose toxicity:

Lead bis(2-ethylhexanoate) NOAEL = 40 g/dL

Acute dermal toxicity:

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

Inhalation:

Lead bis(2-ethylhexanoate) LC50 (4 h inhalation, rat) > 5mg/L
White spirit LC50 > 13.1 mg/l

Skin irritation:

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

Eye irritation:

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

Respiratory or skin sensitization

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

Sensitisation:

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

Carcinogenicity

Lead bis(2-ethylhexanoate) Epidemiology studies of workers exposed to inorganic lead compounds have found a limited association with stomach cancer.
White spirit Not carcinogenic

Germ cell mutagenicity

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

Toxicity to reproduction:

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

Target Organ Systemic Toxicant - Repeated exposure

Lead bis(2-ethylhexanoate) Toxicity in multiple organ systems and body function including the haemopoetic (blood) system, kidney function, reproductive function and the central nervous system.
White spirit Toxicity to nervous system

Aspiration Hazard:

Lead bis(2-ethylhexanoate) -
White spirit Harmful: may cause lung damage if swallowed

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12. ECOLOGICAL INFORMATION

12.1 Eco toxicity Effects

Lead bis(2-ethylhexanoate)

Fish toxicity:

LC50 for freshwater fish: 8.2 g Pb/L (dissolved lead)

Aquatic invertebrates Daphnia

EC50/LC50 for freshwater invertebrates:107.5 g Pb/L

Algae Pseudokirchneriella

EC50/LC50 for freshwater algae: 52.0 g Pb/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

PBT & vPvB

12.5 Additional information

Toxic to aquatic organisms, may cause long-term adverse effects.

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
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:

1300

Shipping Labels:



See transport

IMDG:

Class 3

Packaging Group:

UN- No:

1300

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

EU regulations:	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 not been carried out for the substance Lead bis(2-ethylhexanoate).

16. OTHER INFORMATION

R Phrases and H Statements used in Section 2
R20/22 Harmful by inhalation and if swallowed.
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation
R33 Danger of cumulative effects.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R61 May cause harm to the unborn child.
R62 Possible risk of impaired fertility.
H302 Harmful if swallowed.
H332 Harmful if inhaled.
H360Df May damage the unborn child. Suspected of damaging fertility.
H371: Cause damage to organs through prolonged or repeated exposure
H373 May cause damage to organs through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.
H400 Very toxic to aquatic life.

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.