

Safety data sheet Revision JUNE 2015
Revision 4

OSMO-DF-250

Material Safety Data Sheet

1 IDENTIFICATION OF THE PRODUCT AND THE COMPANY

1.1 Identification of the product

Chemical name: Phosphinocarboxylic acid diluted
Commercial name: OSMO-DF-250
Product code: 100496,100497,100498,100499,100500,100501,
100502,100503,101305,101306,101423

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

Identified uses:: Antisclant

1.3 Of the safety data sheet of the supplier information

Company identification: OSMO SISTEMI S.r.l.
Via Toniolo, 8/b
61032 Fano (PU)
Tel. 0721/855023

1.4 Emergency telephone number

telephone number: +44 (0) 1235 239 670 (NCEC) – EU/English Speakers

2 IDENTIFICATION OF DANGERS

2.1 Classification of the substance or mixture

Classification (CE 1272/2008)

Physical and Chemical hazards	Not classified
Health	Not classified
Environment	Not classified

2.2 Label elements

Label complies A (CE) N. 1272/2008
Not pictogram required.

Safety advised

P302+352 IF IN SKIN: Wash with plenty of soap and water
P305+351+338 IF IN EYS: Rinse cautiously with water for several minutes.
Remove contact lenses if easy to do. Continue rinsing.

2.3 Other hazards

3 COMPOSITION/INFORMATION ON THE COMPONENTS

3.2 Mixtures

Composition comments
Fosfinocarbossilico of acid aqueous solution

4 FIRST AID MEASURES

4.1 Description of first aid measures

INHALATION: Fresh air and rest, in a warm and comfortable place, possibly in erect position. See a doctor if disorder don't stop.
INGESTION: DO NOT INDUCE VOMITING.
Rinse well the mouth with fresh water.
SKIN: Take off contaminated clothes and rinse the skin with fresh water. Keep washing for at least 15 min
If symptom persist seek for medical advice promptly.
EYES: Wash immediately and abundantly with water for at least 15 minutes.
Seek medical advice if irritation persist.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation

No specific symptoms

Ingestion

No specific symptoms. If swallowed , can cause discomfort

Skin

No specific symptoms. May cause skin irritation/eczema.

Eyes

No specific symptoms. May cause temporary eye irritation.

4.3 Indication of any immediate medical attention and special treatment

Treat symptomatically

5 FIRE FIGHTING MEASURES

5.1 Suitable extinguishing media

Extinguishing media

The product is not combustible. Use: water spray or mist, foam, carbon dioxide or dry powder.

5.2 Pericoli speciali derivanti dalla sostanza o dalla miscela

Special Fire Fighting Procedures

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.
Oxides of: Phosphorus

Unusual Fire & Explosion

No indicated fire risks or unusual explosion

Specific risks

The product is non-combustible. If heated, irritating vapors may be formed.

5.3 Advice for firefighters**Special Fire Fighting Procedures**

Remove the container from where it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Keep run-off water out of sewers and water sources. Use of suitable containment means.

Protective Measures for fire-fighters

Immediately move out of the danger zone.

6 MEASURES IN CASE OF ACCIDENTAL LEAKAGE**6.1 Personal precautions, protective equipment and procedures in case of emergency**

Follow the instructions for safe handling described in this safety data sheet.

6.2 Environmental precautions

To disperse. To prevent spills, place the container with the damaged part at the top.

6.3 Methods and materials for containment and cleaning

Prevent entry into wastewater. Absorb in vermiculite, dry sand or earth and place into containers. Collect and reclaim or dispose in sealed containers at licensed landfills. Containers with collected spillage must be properly labeled with correct contents and hazard symbol

6.4 Reference to other sections

For waste disposal, see section 13.

7 HANDLING AND STORAGE**7.1 Precautions for safe handling**

Observe the rules for proper handling of chemicals. Avoid spills and contact with eyes and skin.

7.2 Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a cool, dry place. Store at a temperature below 50 ° C. SE CONGEALTO: When completely thawed, vigorously shake the container to ensure that the product is homogeneous. Keep away from: alkanes, oxidizing materials, reducing agents. Keep away from food, feed, fertilizers and other sensitive products.

Storage Class

of Unspecified storage

7.3 Specific end use

The identified uses for this product are detailed in Section 1.2

8 EXPOSURE CONTROL AND PERSONAL PROTECTION

8.1 Control parameters

8.2 Exposure controls

Protection devices



Technical measures

Provide adequate ventilation, including an appropriate local extraction, not to exceed the occupational exposure limit

Respiratory protection

No specific recommendations, but you may need to use respiratory protection in exceptional circumstances when excessive air contamination.

Hand Protection

The choice of a suitable glove depends on the working conditions and if the product is present alone or in combination with other substances. Use protective gloves made of: Neoprene, nitrile, polyethylene or PVC.

Be careful that the liquid may penetrate the gloves. Microsoft recommends that you often change gloves.

Eye protection

Use approved safety goggles.

Other Precautions

Wear appropriate clothing to prevent repeated or prolonged skin contact.

Hygiene measures

No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals.

Skin protection

In case of risk of splashing, wear an apron or protective clothing.

9 PHYSICAL AND CHEMICAL PROPERTIES

STATUS	Liquido
COLOUR	From light yellow to yellow-brown
ODOUR	Typical
SOLUBILITY	Miscible with water
BOILING POINT (°C)	101 – 103 @ 760 mmHg
BOILING RANGE (°C)	
FUSION POINT (°C)	Not available
RELATIVE DENSITY	Not available
VAPOR PRESSURE	Not available
EVAPORATION INDEX	Not available
VALUE Ph, SOLUTION	4.5
CONCENTRATE VISCOSITY	35 – 60 cSt @ 25°C
TEMPERATURE OF DECOMP. (°C)	Not available
LOWER THRESHOLD SMELL	Not available
UPPER THRESHOLD SMELL	Not available
FLASH POINT (°C)	>93 PM closed cup

TEMP. OF AUTOFLAMMABILITY (°C)	Not available
LIMIT INF. FLASH %	Not available
LIMIT SUP. FLASH %	Not available
COEFFICIENT	log Pow <0
PROPERTY 'OXIDANTS	Does not meet the criteria oxidising

9.2 More information

Not available

10 STABILITY AND REACTIVITY

10.1 Reactivity

It reacts with alkanes generating heat.

10.2 Chemical stability

Stable at normal temperatures and if used according to recommendations of use.

10.3 Possibility of hazardous reactions

Dangerous polymerization
not polymerize

10.4 Conditions to avoid

Avoid excessive heat for prolonged periods of time

10.5 Incompatible materials

Materials To Avoid
Alkanes strong. Strong oxidising substances

10.6 Hazardous decomposition products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.
Oxides of: Phosphorus

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity:

Acute toxicity (Oral LD50)
> 5000 mg / kg Rat

Inhalation

No specific health warnings

Ingestion

If swallowed, can cause discomfort. May cause stomach pain or vomiting.

Skin contact

Not irritant Not a skin sensitizer

Eye contact
Non-irritating.

12 **ECOLOGICAL INFORMATION**

Emotossicità

The product components are not classified as dangerous for the environment. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

12.1 Toxicity

Acute toxicity - fish

LC50 96 Ore >1000

Acute toxicity – Aquatic Invertebrates

CE50 48 Ore 320 mg/l Daphnia magna

Acute toxicity – Water plants

CI50 72 Ore 130 mg/l Salt water - algae

12.2 Persistence and Degradation

Degradability

Not readily biodegradable

chemical oxygen demand 370 g O₂/l

12.3 Potential for bioaccumulation

Potential for bioaccumulation

The product does not contain any substances expected to be bioaccumulating

Partition coefficient Log Pow < 0

12.4 Mobility in soil

Mobility

The product is miscible with water. It may spread in water systems.

12.5 Evaluation results PBT e vPvB

Not available PBT/vPvB according to current European standards

12.6 Other adverse effects

Not available

13 **DISPOSAL CONSIDERATIONS**

General informations

When handling waste, it is necessary to consider the safety precautions applying to handling of the product.

13.1 Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

14 **TRANSPORT INFORMATION**

<i>General</i>	The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).
<i>Rail transport</i>	Not classified
<i>Maritime transport</i>	Not classified
<i>Airplane transport</i>	Not classified

14.1 Number ONU**14.2** Shipping name ONU**14.3** Transport hazard classes

Classes ADR/RID/ADN Not classifid

14.4 Packaging**14.5** Environmental hazards*Dangerous substance for the environment / pollution Marino*
No.**14.6** Special precautions for user**14.7** Transport in bulk according to all. II di MARPOL 73/78 ed il cod. IBC**15** **INFORMATION ABOUT REGULATION****15.1** Safety, health and environmental regulations, legislation specific for the substance or mixture

EU legislation

Regulation (EC) n.1907 / 2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Agency for substances chemicals, amending Directive 1999/45 / EC and repealing Regulation (EEC) No. 793/93 and Regulation (EC) No. 1488/94, only to Directive 76/769 / EEC directives and Regulations (EC) No. Of 1272/2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548 / EEC and 1999/45 / EC facing European and of the Council of 16 December 2008, and brings change to Regulation (EC) No. 1907/2006, as amended.

Risk classifications for water

1 Ranked officially

15.2 Chemical Safety Assessment

Polymeric materials are exempt under Article II of REACH (EC No 1907/2006). At present, the chemical safety assessments or exposure scenarios are not required.

16 ALTRE INFORMAZIONI:*General informations*

OSMO-DF-250 is certified by NSF International for use as an antiscalant for reverse osmosis systems.

Note for the user

All information contained in this sheet are based on knowledge available at the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

It should not be construed as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility the laws and regulations on hygiene and safety.

Do not assume responsibility for improper use.

**OSMO SISTEMI s.r.l.**



OSMO SISTEMI s.r.l.