

Safety data sheet Rev. N.2 of 01/06/2015

OSMO-CB-191

Material Safety Data Sheet

1 IDENTIFICATION OF THE PRODUCT AND THE COMPANY:

Identification of the product

Chemical name: Potassium Hydroxide

Commercial name: OSMO-CB-191

Identification of the company: OSMO SISTEMI S.r.l.
Via Toniolo, 8/b
61032 Fano (PU)
Tel. 0721/855023

Tel.: +49 (0) 6203 / 77-112

2 IDENTIFICATION OF DANGERS:

CLASSIFICATION OF THE SUBSTANCE OR PREPARATION:

The product is classified as dangerous according to the provisions set forth in Directives 67/548/CEE relative to dangerous substances and directives and 1999/45/EC relative to dangerous prepared and following amendments and adjustments. Therefore, this product requires a safety data sheet complies with the Regulation (CE) no.1272/2008 on classification, labeling and packaging of substances and mixtures (CLP). Any additional information concerning the risks for health and/or the environment are given in sections. 11 and 12 of this sheet

PHRASES H: H302 Harmful by ingestion
H314 Causes severe burnsLABEL OF DANGERS:

GHS05

Warning

Danger

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www.osmosistemi.itRepertorio Economico Amministrativo n. 152049
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Codice Fiscale e Partita I.V.A. n. IT 02073060416
Capitale Sociale € 1.275.000 i.v.

Hazards

H302 Harmful by ingestion
H314 Causes severe burns

Safety advice

P260 Do not breathe
P280 Wear protective gloves / protective clothing / eye protection / face
P303+P361+P353 In case of contact with skin or hair: take off immediately all contaminated clothing. Rinse skin with water / shower.
P305+P351+P338 In case of contact with eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 Immediately call a doctor.
P301+P330+P331 In case of ingestion: rinse mouth. Do not induce vomiting

OTHER AZARDS:

PBT: N.A.
vPvB: N.A.

3 COMPOSITION/INFORMATION ON INGREDIENTS:ANALYSIS: MIXTURESDescription:

Mixture consisting of the following substances:
tetrasodium ethylenediaminetetraacetate
alkali
mixture of surfactants
phosphonates
solution in water

Dangerous components:

CAS: 1310-58-3 EINECS:215-181-3 Number index: 019-002-00-8 Reg.nr.: 01-2119487136-33-0009	Potassium Hydroxide H302; H314 skin corr. 1°, H314, Acute tox. 4, H302	25-50%
CAS: 64-02-8 EINECS:200-573-9 Number index: 607-428-00-2 Reg.nr.: 01-2119486762-27-xxxx	tetrasodium ethylenediaminetetraacetate H302; H314 Eye Dam. 1, H318, Acute tox. 4, H302 Acute tox. 4, H332	2,5-10%

Additional information:

The wording of the listed risk phrases refer to understand 16

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4 FIRST AID MEASURES:

INDICAZIONI GENERALI:

Immediately remove any clothing soiled by the product.

INHALATION: Bring the injured person to fresh air; if breathing stops or is difficult, practice artificial respiration. Call immediately a Doctor.

INGESTION: Do not induce vomiting. Call immediately a Doctor.

SKIN: Take off contaminated clothes and take a shower.
Call immediately a Doctor.

EYES: Wash separately the contaminated clothes before using them again.

Wash immediately and abundantly with water for at least 15 minutes.
Call immediately a Doctor.

IMPORTANT SYMPTOMS AND EFFECTS: Risk of gastric perforation.

5 FIRE FIGHTING MEASURES:

EXTINGUISHING MEDIA: Fire-fighting measures that around the affected area. Fight larger fires with water spray.

HAZARDS: In case of fire, the following can be released:
Carbon monoxide (CO)
Nitrogen oxides (NO₂)
In certain fire conditions, can not be excluded traces of other toxic gases.

EQUIPMENT: Wear self-contained breathing SCBA.
Wear fully protective suit.

6 MEASURES IN CASE OF ACCIDENTAL LEAKAGE:

PRECAUTIONS: Wear protective clothing

PRECAUTIONS: Not allow to enter sewers / surface water / ground water.

METHODS AND MATERIALS FOR THE CONTAINMENT AND CLEANING UP: Absorb with materials suitable for liquids (eg sand, diatomaceous earth, acid absorbent and universal).
Use neutralizing agent.
Wash away remainder with plenty of water.

7 HANDLING AND STORAGE:

HANDLING PRECAUTIONS: Ventilation

STOCKING PRECAUTIONS: acid resistant flooring
Keep container tightly closed.
Protect from frost.
Class of stocking: 8B

8 EXPOSURE CONTROL AND PERSONAL PROTECTION:

POTASSIUM HYDROXIDE

- TLV TWA Valore a breve termine: C 2 mg/m³

PROTECTION DEVICES

TECHNICAL MEASURE:

It's necessary to use appropriate personal protective measures against the corrosive properties of the product and according to the kind of work, such as: full facial visior and head-neck protection, waterproof and product-resistant gloves and overall.

Do not eat, drink or smoke during use

Wash carefully with water and soap beafore meals and after the work shift.

HAND:

Protective gloves.

EYES: Approved safety glasses (DIN 58211, EN 166)

9 PHYSICAL AND CHEMICAL PROPERTIES:

PHYSICAL STATE:

Liquid

COLOUR:

Beige

SMELL:

Characteristic

BOILING POINT(°C):

N.A.

INFIAMMABILITY POINT:

N.A.

EXPLOSIVE PROPERTIES:

Product is not explosive

VAPOUR TENSION:

N.A.

Ph:

ca. 14

VISCOSITY':

N.A.

SOLUBILITY:

Complete in water

SPECIFIC WEIGHT:

1,350 – 1,400 kg/l

10 STABILITY AND REACTIVITY:

STABILITY:

This product is stable at normal conditions of use and storage.

HAZARDOUS REACTIONS:

In case of thermal decomposition or fire, it can liberate fume potentially harmful for health.

CONDITION TO BE AVOIDED:

In order to avoid the romation of corrosive sprinkligs when preparing solutions, always remember to add the substance to the water, and not vice versa. This substance attacks aluminium, tin, lead and zinc. It reacts violently whit acids.

11 TOXICOLOGICAL INFORMATION:

ACUTE EFFETS

LD/LC50

INGESTION:

This product is noxious if ingested, and even small quantities, when ingested, can cause serious troubles to one's health (abdominal ache, nausea, emesis, diarrhoea, etc..)

INHALATION:

This product can cause slight irritation of the mucosae and the upper respiratory tract, as well as eyes and cutis. Exposure symptoms can include: burning sensation, cough, asthmatic respiration, laryngitis, short breath, cephalalgia, nausea, emesis.

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SKIN: This product is corrosive and it causes serious burns and blisters on skin that can appear even afterwards. The burns cause bad burning and pain.
EYES: At contact with eyes, it causes serious injuries and may bring about opacity of the cornea, lesions of the iris, irreversible colouring of the eye.

12 ECOLOGICAL INFORMATION:

Use this product accordingly to good work practice, do not waste this product in the environment. Notify the competent authorities if this product reaches watercourses or sewerage, or if it has contaminated the ground or vegetation.

13 CONSIDERATIONS ABOUT DISPOSAL:

DISPOSAL: Must not be disposed together with household garbage.
Do not empty into drains.
The product must be subjected to special treatment in accordance with official regulations.

CER: 16 03 05

PACKAGING: Contaminated packaging should be emptied as well, can be recycled after thorough and proper cleaning.
Packagings that may not be cleaning should be disposed of in the same manner as the product.

CLEANIGN: Water, if necessary with cleaning agent.

14 INFORMATION ABOUT TRANSPORT:

The transport must be done by vehicle authorised to transport dangerous goods accordingly to the regulations of the A.D.R. Agreement and local laws.
The transport must be done using the original packaging and, in any case, using containers made in material unassailable by the content and that cannot generate dangerous reactions.
The persons in charge of loading/unloading these goods must have been well instructed about risks and eventual practice in case of emergency.

ADR: 1814 POTASSIUM HYDROXIDE SOLUTION
IMDG, IATA: POTASSIUM HYDROXIDE SOLUTION



GHS05

ROAD AND RAILWAY TRANSPORT:

CLASS: 8
LABEL: 8

SEA AND AIR TRANSPORT:

CLASS: 8
LABEL: 8
PACKING GROUP: II
KEMLER NUMBER: 80
EMS NUMBER: F-A, S-B
SEPARATION GROUP: Alkalis

QUANTITY LIMITED: 1L
CATEGORY OF TRANSPORT: 2
COD.RESTRICTION GALERY: E
UN "MODEL REGULATIONE: UN1814, POTASSIUM HYDROXIDE SOLUTION
8, II

15 INFORMATION ABOUT REGULATION:

The product is classified and labeled according to the CLP regulation.

Symbol of danger:



GHS05

WARNINGS: Danger

Hazard

H302 Harmful by ingestion
H314 Causes severe burns

Safety advice

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Ordinance concerning assistance in case of failure:

D.Lgs 334 of 17/08/99 major accident hazards (Dir. Seveso Bis)

Other regulations, limitations and prohibitive regulations:

DM 07/09/2002 (the information on safety for substances and preparations).
DM Lav. 26/02/2004 (Occupational Exposure Limits).
Ministerial circulars n. 46/79 e 61/81 (aromatic amines)
Reg. n. 648/2004 CE (Regulation detergents)

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Dir. 64/548/CEE and subsequent amendments to the XXIX included (dir. 2004/73/CE).
D.Lgs n. 65 of 14/03/03. Classification, packaging and labeling of dangerous preparations.
D.Lgs n. 52 of 03/02/97. Classification, packaging and labeling of dangerous substances.
DPR n. 22 of 05/02/97 waste.
D.Lgs n. 25 of 02/02/2002. Chemical risk assessment.
D.Lgs n. 626 of 19/09/94. Safety and health of workers.
DPR n. 203 of 24/05/88. Emissions into the atmosphere.
D.Lgs n. 152 of 11/05/99. Effluents.
DPR n. 303 of 19/03/56. Health checks.

16 OTHER INFORMATION:

The information contained in this safety data sheet is based on the knowledge available on the date of the last version.

The User must make sure about the fitness and entirety of information with regard to the specific usage of the product.

This document must not be considered as guarantee of any property of this product.

As the use of this product is not practiced under our direct control, it's a User's duty to observe under his own responsibility the laws and local regulation about hygiene and safety matter.

We do not to assume responsibility for illegitimate use.

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