

according to Regulation (EC) No. 1907/2006

Revision Date 21.11.2019

Version 1.8

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Catalogue No. 635488
Millipore Ref. HAWP02500

Product name MCE .45UM WH PL 25MM 100/PK

REACH Registration

Number

Not applicable

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

Identified uses Reagent for development and research

For additional information on uses please refer to the Merck

Chemicals portal (www.merckgroup.com).

1.3 Details of the supplier of the safety data sheet

Company Merck KGaA * 64271 Darmstadt * Germany * Phone: +49

6151 72-0

Responsible Department LS-QHC * e-mail: prodsafe@merckgroup.com

1.4 Emergency telephone Please contact the regional company representation in

number your country.

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture Classification (REGULATION (EC) No 1272/2008)

Flammable solid, Category 1, H228

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

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word



according to Regulation (EC) No. 1907/2006

Catalogue No. 635488

Product name MCE .45UM WH PL 25MM 100/PK

Danger

Hazard statements
H228 Flammable solid.

Precautionary statements

Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking. Response

P370 + P378 In case of fire: Use powder for extinction.

Reduced labelling (≤125 ml)

Hazard pictograms



Signal word
Danger

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P370 + P378 In case of fire: Use powder for extinction.

2.3 Other hazards

None known.

SECTION 3. Composition/information on ingredients

Chemical nature

Contains nitrocellulose.

3.1 Substance

Not applicable

3.2 Mixture

Hazardous components (REGULATION (EC) No 1272/2008)

Chemical name (Concentration)

CAS-No. Registration Classification

number

Octylphenol polyethoxyethanol (< 0,25 %)

9036-19-5 *)

Acute toxicity, Category 4, H302 Skin irritation, Category 2, H315 Serious eye damage, Category 1, H318 Short-term (acute) aquatic hazard, Category 1, H400

Long-term (acute) aquatic nazard, Category 1, H400

Long-term (chronic) aquatic hazard, Category 1, H410

M-Factor: 10

^{*)} A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.



according to Regulation (EC) No. 1907/2006

Catalogue No. 635488

Product name MCE .45UM WH PL 25MM 100/PK

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

SECTION 4. First aid measures

4.1 Description of first aid measures

After inhalation: fresh air.

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

After eye contact: rinse out with plenty of water. Remove contact lenses.

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

4.2 Most important symptoms and effects, both acute and delayed Risk of methaemoglobin formation.

4.3 Indication of any immediate medical attention and special treatment neededNo information available.

SECTION 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Water, Foam, Carbon dioxide (CO2), Dry powder

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Combustible.

Spontaneous ignition at elevated temperatures.

Development of hazardous combustion gases or vapours possible in the event of

Fire may cause evolution of:

nitrogen oxides, nitrous gases

5.3 Advice for firefighters

Special protective equipment for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

Further information

Suppress (knock down) gases/vapours/mists with a water spray jet. Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert.

Page 3 of 12



according to Regulation (EC) No. 1907/2006

Catalogue No. 635488

Product name MCE .45UM WH PL 25MM 100/PK

Advice for emergency responders:

Protective equipment see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections

Indications about waste treatment see section 13.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling Observe label precautions.

Advice on protection against fire and explosion

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

Hygiene measures

Change contaminated clothing. Wash hands after working with substance.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Tightly closed. Dry. Keep away from heat and sources of ignition. Keep away from direct sunlight.

Performing regular visual inspections of membranes and keeping accurate records of recommended shelf life can reduce the risk of membrane deterioration. Shelf-life limited when kept above +25°C. Recommended storage humidity: 30 - 70 %. Verify on a regular basis housekeeping, temperature and humidity. Designated "Flammable Material" storage areas must be engineered according to local regulations. Rotate stock. Improper storage conditions can accelerate deterioration of the membrane in advance of expiration date. Perform regular visual inspections of stored materials to ensure early stages of deterioration does not advance. Early stages of deterioration: Amber or yellow discoloration. Advanced stages of deterioration: visible liquid or solid brown resin. If membrane shows visual indications of deterioration, safely dispose of product according to local regulations.

Storage under improper conditions could lead to the membrane self-decomposing at ambient temperatures with the formation of nitrous vapors or self ignition.

Recommended storage temperature see product label.

Advice on common storage

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.



according to Regulation (EC) No. 1907/2006

Catalogue No. 635488

Product name MCE .45UM WH PL 25MM 100/PK

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

Individual protection measures

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Eye/face protection Safety glasses

Hand protection

full contact:

Glove material: Nitrile rubber Glove thickness: 0,11 mm 480 min

splash contact:

Glove material: Nitrile rubber Glove thickness: 0,11 mm Break through time: 480 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example KCL 741 Dermatril® L (full contact), KCL 741 Dermatril® L (splash contact).

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Other protective equipment protective clothing

Respiratory protection

required when dusts are generated.

Recommended Filter type: Filter P 1 (acc. to DIN 3181) for solid particles of inert substances

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Merck

according to Regulation (EC) No. 1907/2006

Catalogue No. 635488

Product name MCE .45UM WH PL 25MM 100/PK

Environmental exposure controls

Do not let product enter drains.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form solid

Colour coloured

Odour No strong odour known.

Odour Threshold No information available.

pH No information available.

Melting point No information available.

Boiling point No information available.

Flash point No information available.

Evaporation rate No information available.

Flammability (solid, gas) The substance or mixture is a flammable solid with the

category 1.

The substance or mixture is a flammable solid with the

category 1.

Lower explosion limit No information available.

Vapour pressure No information available.

Relative vapour density No information available.

Density No information available.

Relative density No information available.

Water solubility No information available.

Partition coefficient: n-

octanol/water

No information available.

Auto-ignition temperature No information available.

Decomposition temperature No information available.



according to Regulation (EC) No. 1907/2006

Catalogue No. 635488

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Viscosity, dynamic No information available.

Explosive properties Not classified as explosive.

Not classified as explosive.

Oxidizing properties none

none

9.2 Other data

none

SECTION 10. Stability and reactivity

10.1 Reactivity

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

10.2 Chemical stability

Product is sensitive to light and moisture.

Prolonged exposure to air may cause discolouration.

10.3 Possibility of hazardous reactions

Risk of ignition or formation of inflammable gases or vapours with:

Oxidizing agents, Bases, Strong acids

10.4 Conditions to avoid

Heating (decomposition).

Exposure to sunlight.

10.5 Incompatible materials

no information available

10.6 Hazardous decomposition products

in the event of fire: See section 5.

SECTION 11. Toxicological information

11.1 Information on toxicological effects Mixture

Acute oral toxicity

This information is not available.

Acute inhalation toxicity

This information is not available.

Acute dermal toxicity

This information is not available.

Skin irritation

This information is not available.

Merck

according to Regulation (EC) No. 1907/2006

Catalogue No. 635488

Product name MCE .45UM WH PL 25MM 100/PK

Eye irritation

This information is not available.

Sensitisation

This information is not available.

Germ cell mutagenicity

This information is not available.

Carcinogenicity

This information is not available.

Reproductive toxicity

This information is not available.

Teratogenicity

This information is not available.

Specific target organ toxicity - single exposure

This information is not available.

Specific target organ toxicity - repeated exposure

This information is not available.

Aspiration hazard

This information is not available.

11.2 Further information

After uptake:

Risk of methaemoglobin formation.

However, when the product is handled appropriately, hazardous effects are unlikely to occur.

Handle in accordance with good industrial hygiene and safety practice.

Components

Octylphenol polyethoxyethanol

Acute oral toxicity

LD50 Rat: 1.900 - 5.000 mg/kg

(External MSDS)

Acute dermal toxicity

LD50 Rabbit: > 3.000 mg/kg

(External MSDS)

Skin irritation

Rabbit

Result: irritating

OECD Test Guideline 404

The value is given in analogy to the following substances: 4-(1,1,3,3-tetramethylbutyl)phenol

Sensitisation

Sensitisation test: human

Result: negative

(External MSDS)

SECTION 12. Ecological information

Mixture

Page 8 of 12



according to Regulation (EC) No. 1907/2006

Catalogue No. 635488

Product name MCE .45UM WH PL 25MM 100/PK

12.1 Toxicity

No information available.

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Substance(s) in the mixture do(es) not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII, or a PBT/vPvB assessment was not conducted.

12.6 Other adverse effects

Additional ecological information

Discharge into the environment must be avoided.

Components

Octylphenol polyethoxyethanol

Toxicity to fish

semi-static test LC50 Leuciscus idus (Golden orfe): 0,26 mg/l; 96 h

Analytical monitoring: yes OECD Test Guideline 203

The value is given in analogy to the following substances: 4-(1,1,3,3-tetramethylbutyl)phenol

Toxicity to daphnia and other aquatic invertebrates

static test EC50 Daphnia magna (Water flea): 0,011 mg/l; 48 h

(ECOTOX Database) The value is given in analogy to the following substances: 4-(1,1,3,3-

tetramethylbutyl)phenol

Toxicity to algae

static test EC50 Pseudokirchneriella subcapitata (green algae): 1,9 mg/l; 96 h

(ECHA) The value is given in analogy to the following substances: 4-(1,1,3,3-

tetramethylbutyl)phenol

Toxicity to fish (Chronic toxicity)

flow-through test Danio rerio (zebra fish): 0,012 mg/l

Analytical monitoring: yes OECD Test Guideline 210

The value is given in analogy to the following substances: 4-(1,1,3,3-tetramethylbutyl)phenol

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) semi-static test NOEC Daphnia magna (Water flea): 0,03 mg/l; 21 d

Analytical monitoring: yes

OECD Test Guideline 202

The value is given in analogy to the following substances: 4-(1,1,3,3-tetramethylbutyl)phenol

Biodegradability 22 %; 28 d; aerobic OECD Test Guideline 301C

OLCD Test Guideline 301C

Not readily biodegradable.



according to Regulation (EC) No. 1907/2006

Catalogue No. 635488

Product name MCE .45UM WH PL 25MM 100/PK

M-Factor 10

SECTION 13. Disposal considerations

Waste treatment methods

See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

SECTION 14. Transport information

Land transport (ADR/RID)

14.1 UN number UN 3270

14.2 Proper shipping NITROCELLULOSE MEMBRANE FILTERS

name

14.3 Class 4.1 **14.4 Packing group** II **14.5 Environmentally** --

hazardous

14.6 Special precautions yes

for user

Tunnel restriction code E

Inland waterway transport (ADN)

Not relevant

Air transport (IATA)

14.1 UN number UN 3270

14.2 Proper shipping NITROCELLULOSE MEMBRANE FILTERS

name

14.3 Class 4.1 **14.4 Packing group** II **14.5 Environmentally** --

hazardous

14.6 Special precautions no

for user

Sea transport (IMDG)

14.1 UN number UN 3270

14.2 Proper shipping NITROCELLULOSE MEMBRANE FILTERS

name

14.3 Class 4.1 14.4 Packing group II 14.5 Environmentally --

hazardous

14.6 Special precautions yes

for user

MERCK

according to Regulation (EC) No. 1907/2006

Catalogue No. 635488

Product name MCE .45UM WH PL 25MM 100/PK

EmS F-A S-I

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not relevant

SECTION 15. Regulatory information

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

EU regulations

Major Accident Hazard SEVESO III Legislation Not applicable

Occupational restrictions Take note of Dir 94/33/EC on the protection of young

people at work.

Regulation (EC) No 1005/2009 on substances not regulated

that deplete the ozone layer

Regulation (EC) No 850/2004 of the not regulated

European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC

Substances of very high concern (SVHC)

This product does contain substances

of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 59 above the respective regulatory concentration

limit of > 0.1 % (w/w).

Contains: Octylphenol polyethoxyethanol

This product contains a substance listed on Annex XIV of the REACH Regulation (EC) Nr.

1907/2006.

Listed substance / Sunset Date: Octylphenol

polyethoxyethanol /

04.01.2021

After the sunset date the use of this substance requires either an authorization or can only be used for exempted uses, e.g. use in scientific research and development which includes routine analytics or use as intermediate.

National legislation

Storage class 4.1B

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.



according to Regulation (EC) No. 1907/2006

Catalogue No. 635488

Product name MCE .45UM WH PL 25MM 100/PK

SECTION 16. Other information

Full text of H-Statements referred to under sections 2 and 3.

H228	Flammable solid.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Training advice

Provide adequate information, instruction and training for operators.

Labelling

Hazard pictograms



Signal word Danger

Hazard statements H228 Flammable solid.

Precautionary statements Prevention

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Response

P370 + P378 In case of fire: Use powder for extinction.

Key or legend to abbreviations and acronyms used in the safety data sheet

Used abbreviations and acronyms can be looked up at www.wikipedia.org.

Regional representation

This information is given on the authorised Safety Data Sheet for your country.

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

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Page 12 of 12

