# Purolite

# SAFETY DATA SHEET

## 1. Identification

Product identifier Purolite® MB46

Other means of identification None.

**Recommended use** Ion Exchange, Absorbent and/or Catalyst

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

**Supplier** Purolite

150 Monument Road

Bala Cynwyd, PA 19004 USA

**Telephone** +1 610 668 9090 **Fax** +1 610 668 8139

Manufacturer Purolite S.R.L.

Str. Aleea Uzinei nr.11,

505700 Victoria Judetul Brasov Romania

**Telephone** +40 26 824 3001 **Fax** +40 26 824 3002

Manufacturer Purolite

150 Monument Road

Bala Cynwyd, PA 19004 USA

**Telephone** +1 610 668 9090 **Fax** +1 610 668 8139

Manufacturer Purolite (China) Co. Limited,

Qianlong Economic Development Zone, Qianyuan Town, Deqing County, Huzhou City, Zhejiang, China 313216

+86 572 842 2908

 Telephone
 +86 572 842 2908

 Fax
 +86 572 842 5345

 Contact person
 SDS Coordinator

 E-mail
 msds@purolite.com

 1.4. Emergency telephone
 +1 866 387 7344

number

+1 760 602 8703

# 2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Serious eye damage/eye irritation Category 2A

OSHA defined hazards Not classified.

Label elements



Signal word Warning

**Hazard statement** Causes serious eye irritation.

Purolite® MB46 SDS US

**Precautionary statement** 

Prevention Wash thoroughly after handling. Wear eye protection/face protection.

Response If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Store away from incompatible materials. Storage

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

None known.

**Supplemental information** None.

# 3. Composition/information on ingredients

lixtures		
Chemical name	CAS number	%
Benzene, diethenyl-, polymer with ethenylbenzene and ethenylethylbenzene, sulfonated	69011-20-7	20 - 30
Benzene, diethenyl-, polymer with ethenylbenzene and ethenylethylbenzene, chloromethylated, trimethylamine-quaternized, hydroxide	69011-18-3	20 - 30
Water	7732-18-5	40 - 60

## 4. First-aid measures

Inhalation Move into fresh air and keep at rest. Get medical attention if any discomfort continues.

Skin contact Wash off immediately with soap and plenty of water. If irritation persists get medical attention.

Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Eye contact

If eye irritation persists, get medical advice/attention.

Ingestion Rinse mouth thoroughly. Never give liquid to an unconscious person. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Get

medical attention if any discomfort continues.

Eye contact: Contact may cause irritation with redness, tearing, pain, and/or blurred vision.

Most important symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

Treat symptomatically.

**General information** If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

## 5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing

Extinguish with foam, carbon dioxide, dry powder or water fog.

None known.

Specific hazards arising from the chemical

By heating and fire, harmful vapors/gases may be formed.

Special protective equipment and precautions for firefighters

Wear self-contained breathing apparatus and protective clothing.

Fire fighting equipment/instructions

media

In the event of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Prevent runoff from fire control or dilution from entering streams, sewers, or

drinking water supply. Wear self-contained breathing apparatus and protective clothing.

General fire hazards This product is not flammable. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

Purolite® MB46 SDS US

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Avoid contact with skin and eyes. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Avoid the generation of dusts during clean-up.

Large Spills: Dike the spilled material, where this is possible. Sweep or shovel up material and place in a clearly labeled container for waste. For waste disposal, see Section 13 of the SDS.

Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal.

Never return spills to original containers for re-use.

**Environmental precautions** 

Prevent further leakage or spillage if safe to do so. Cover with plastic sheet to prevent spreading.

Do not allow to enter drains, sewers or watercourses.

## 7. Handling and storage

Precautions for safe handling

Use with adequate ventilation. Wear protective clothing as described in Section 8 of this safety data sheet. Observe good industrial hygiene practices. Wash thoroughly after handling. Avoid

release to the environment.

Conditions for safe storage, including any incompatibilities Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from

incompatible materials (See Section 10).

## 8. Exposure controls/personal protection

Occupational exposure limits

No exposure limits noted for ingredient(s).

**Biological limit values Exposure guidelines** 

No biological exposure limits noted for the ingredient(s). This material does not have established exposure limits.

Provide adequate ventilation.

Appropriate engineering

controls

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Protective gloves should be worn to prevent skin contact.

Breakthrough time:

SPECIFIC RECOMMENDATIONS. > 10 minutes.

Suitable gloves can be recommended by the glove supplier.

Other Wear appropriate clothing to prevent repeated or prolonged skin contact.

Respiratory protection No personal respiratory protective equipment normally required.

Thermal hazards None known.

General hygiene considerations

Avoid contact with eyes. Handle in accordance with good industrial hygiene and safety practice. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

## 9. Physical and chemical properties

**Appearance** Beads. **Physical state** Solid. **Form** Beads.

> Color Mixture of white, cream, amber and brown beads

Odorless Odor Not available. **Odor threshold** Acidic / Alkaline Not available. Melting point/freezing point Initial boiling point and boiling Not available.

range

Not available. Flash point Not available. **Evaporation rate** Flammability (solid, gas) Not available.

Purolite® MB46

905391 Version #: 03 Revision date: 11-November-2016 Issue date: 24-April-2015 Upper/lower flammability or explosive limits

Flammability limit - lower Not available.

(%)

Flammability limit - upper

(%)

Not available.

Vapor pressureNot applicable.Vapor densityNot available.Relative density1.05 - 1.28

Solubility(ies)

Solubility (water) Not available.

Partition coefficient No data available.

(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

# 10. Stability and reactivity

**Reactivity Chemical**The product is stable and non-reactive under normal conditions of use, storage and transport.

**stability Possibility of**Material is stable under normal conditions.

hazardous No dangerous reaction known under conditions of normal use.

reactions

**Conditions to avoid** Heat, sparks, flames, elevated temperatures. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents. Nitric acid.

**Hazardous decomposition** 

products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

## 11. Toxicological information

## Information on likely routes of exposure

**Inhalation** Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

Inhalation of dusts may cause respiratory irritation.

Skin contact May cause mild skin irritation. Eye contact Causes serious eye irritation.

**Ingestion** May cause discomfort if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: Contact may cause irritation with redness, tearing, pain, and/or blurred vision.

Information on toxicological effects

Acute toxicity May cause discomfort if swallowed.

**Skin corrosion/irritation** Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Respiratory sensitization Not classified.
Skin sensitization Not classified.
Germ cell mutagenicity Not classified.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Not

classified.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

**NTP Report on Carcinogens** 

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Reproductive toxicity Not classified.

Purolite® MB46 SDS US

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** Not classified.

**Chronic effects** Chronic effects are not expected when this product is used as intended.

**Further information** No other specific acute or chronic health impact noted.

## 12. Ecological information

No test data available for the product. **Ecotoxicity** 

Persistence and degradability No data available. Bioaccumulative potential No data available. No data available. Mobility in soil Mobility in general No data available.

Other adverse effects The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

## 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

contents/container in accordance with local/regional/national/international regulations.

Hazardous waste code Not regulated.

Waste from residues / unused

products

Dispose of in accordance with local regulations.

Empty containers should be taken to an approved waste handling site for recycling or disposal. Contaminated packaging

## 14. Transport information

#### DOT

Not regulated as dangerous goods.

#### IATA

Not regulated as dangerous goods.

#### **IMDG**

Not regulated as dangerous goods.

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and

the IBC Code

## 15. Regulatory information

**US** federal regulations This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

This solution may be subject to SARA 311/312 and CERCLA based on the threshold quantities of

individual components.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

Purolite® MB46 SDS US SARA 311/312 Hazardous

chemical

## SARA 313 (TRI reporting)

Not regulated.

## Other federal regulations

## Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Yes

Not regulated.

## Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

(SDWA)

Not regulated.

**US** state regulations This product does not contain a chemical known to the State of California to cause cancer, birth

defects or other reproductive harm.

## **US. Massachusetts RTK - Substance List**

Not regulated.

## US. New Jersey Worker and Community Right-to-Know Act

## US. Pennsylvania Worker and Community Right-to-Know Law

Not listed.

#### **US. Rhode Island RTK**

Not regulated.

#### **US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

<sup>\*</sup>A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

# 16. Other information, including date of preparation or last revision

Issue date 24-April-2015 11-November-2016 **Revision date** 

Version # 03

This mixture is exempted from Registration according to the provisions of Title II and VI and Article **Further information** 

2(9) of REACH.

Health: 1 **HMIS®** ratings

> Flammability: 1 Physical hazard: 0

Purolite® MB46 SDS US

905391 Version #: 03 Revision date: 11-November-2016 Issue date: 24-April-2015

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## **NFPA** ratings



## List of abbreviations

References ACGIH

EPA: AQUIRE database

NLM: Hazardous Substances Data Base

US. IARC Monographs on Occupational Exposures to Chemical Agents

HSDB® - Hazardous Substances Data Bank

IARC Monographs. Overall Evaluation of Carcinogenicity National Toxicology Program (NTP) Report on Carcinogens

ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices

**Disclaimer** The information provided in this safety data sheet is based on current knowledge about the

product and current legal requirements and standards. It relates specifically to health, safety and environmental requirements and standards, may not identify all hazards associated with the product or its uses or misuses, does not signify any warranty with regard to the properties of the product, and only applies when the product is used for the purposes indicated in section 1. This product is not sold as suitable for other purposes and such other usage may cause risks not

mentioned in this safety data sheet.

Purolite® MB46 SDS US