Purolite

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or designation

of the mixture

Purolite® MB46

Registration number

Synonyms

None.

Issue date

22-December-2011

Version number

Revision date Supersedes date 11-November-2016 10-November-2016

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

Identified uses Ion Exchange, Absorbent and/or Catalyst

Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

Supplier Purolite Ltd.

Llantrisant Business Park

Llantrisant, Wales, UK CF72 8LF

Telephone +44 1443 229334 +44 1443 227073 Fax

Manufacturer

Purolite

150 Monument Road

Bala Cynwyd, PA 19004 USA

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

Purolite S.R.L.

Str. Aleea Uzinei nr.11,

505700 Victoria Judetul Brasov Romania 505 700 +40 26 824 3001

Telephone +40 26 824 3002 Fax

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 5345 Fax

SDS Coordinator **Contact person** e-mail msds@purolite.com

1.4. Emergency telephone

number

+1 866 387 7344

+1 760 602 8703

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Purolite® MB46 SDS UK

Version #: 03 Revision date: 11-November-2016 Issue date: 22-December-2011

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards

Serious eye damage/eye irritation Category 2 H319 - Causes serious eye

irritation.

Hazard summary

Exposure to powder or dusts may be irritating to eyes, nose and throat.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended



Hazard pictograms

Signal word Warning

Hazard statements

Causes serious eye irritation. H319

Precautionary statements

Prevention

P264 Wash thoroughly after handling. Wear eye protection/face protection. P280

Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present P305 + P351 + P338

and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention. P337 + P313

Store away from incompatible materials. Storage

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations. P501

Supplemental label information None.

2.3. Other hazards Not a PBT or vPvB substance or mixture.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Ge

eneral information						
Chemical name		% 20 - 30	CAS-No. / EC No. 69011-20-7	REACH Registration No.	INDEX No.	Notes
Benzene, diethenyl-, polymer with ethenylbenzene and ethenylethylbenzene, sulfonated						
Classification:	Eye Irrit. 2;	H319				
Benzene, diethenyl-, pol ethenylbenzene and ethenylethylbenzene, chloromethylated, trimethylamine-quaterniz hydroxide		20 - 30	69011-18-3 -	-	-	
Classification:	Eye Irrit. 2;H319					

Water 40 - 60 7732-18-5

231-791-2

Classification:

List of abbreviations and symbols that may be used above

CLP: Regulation No. 1272/2008.

The full text for all R- and H-phrases is displayed in section 16. All concentrations are in percent by **Composition comments**

weight unless ingredient is a gas. Gas concentrations are in percent by volume.

SECTION 4: First aid measures

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.

Purolite® MB46 SDS UK 4.1. Description of 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.

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

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.

4.2. Most important symptoms and effects, both acute and delayed Eye contact: Contact may cause irritation with redness, tearing, pain, and/or blurred vision.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

General fire hazards This product is not flammable. Thermal decomposition or combustion may liberate carbon oxides

and other toxic gases or vapours.

5.1. Extinguishing media

Suitable extinguishing

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

media

Unsuitable extinguishing media

None known.

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

Special protective equipment for firefighters

Wear self-contained breathing apparatus and protective clothing.

Special fire fighting procedures

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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

Keep unnecessary personnel away. Avoid contact with skin and eyes.

For emergency responders

Keep unnecessary personnel away. Wear protective clothing as described in Section 8 of this

safety data sheet.

6.2. 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.

6.3. Methods and material 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.

6.4. Reference to other sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. 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.

7.2. 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).

7.3. Specific end use(s) Ion Exchange, Absorbent and/or Catalyst

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits No exposure limits noted for ingredient(s).

Biological limit values No biological exposure limits noted for the ingredient(s).

Purolite® MB46 SDS UK

Recommended monitoring

procedures

Follow standard monitoring procedures.

Derived no effect levels

(DNELs)

Not available.

Predicted no effect

concentrations (PNECs)

Not available.

Exposure guidelines This material does not have established exposure limits.

8.2. Exposure controls

Appropriate engineering

controls

Provide adequate ventilation.

Individual protection measures, such as personal protective equipment

General information Personal protective equipment should be chosen according to the CEN standards and in

discussion with the supplier of the personal protective equipment.

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

Skin protection

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

SPECIFIC RECOMMENDATIONS.

Breakthrough time: > 10 min (EN 374-3 Class 1).

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.

Hygiene measures Avoid contact with eyes. Handle in accordance with good industrial hygiene and safety practices.

> 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.

Environmental exposure

controls

Environmental manager must be informed of all major spillages.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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

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

Odour Odourless. **Odour threshold** Not available. Acidic / Alkaline рΗ Not available Melting point/freezing point Not available. Initial boiling point and boiling

range

Not available. Flash point Not available. **Evaporation rate** Not available. Flammability (solid, gas) Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

(%)

Vapour pressure Not applicable. Vapour density Not available. Relative density 1.05 - 1.28 Solubility(ies) Not available. Partition coefficient No data available.

(n-octanol/water)

Auto-ignition temperature Not available. Not available. **Decomposition temperature** Not available. **Viscosity**

Purolite® MB46 SDS UK

Revision date: 11-November-2016 Issue date: 22-December-2011 Version #: 03

Explosive properties Not available. **Oxidising properties** Not available.

No relevant additional information available. 9.2. Other information

SECTION 10: Stability and reactivity

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

10.2. Chemical stability Material is stable under normal conditions.

10.3. Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

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

10.5. Incompatible materials Strong oxidising agents. Nitric acid.

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

vapours. decomposition products

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

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.

May cause mild skin irritation. Eve Skin contact Causes serious eye irritation. contact May cause discomfort if swallowed. Ingestion

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

11.1. Information on toxicological effects

May cause discomfort if swallowed. Acute toxicity

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

Serious eye damage/eye

irritation

Causes serious eye irritation.

Respiratory sensitisation Not classified. Skin sensitisation Not classified. Germ cell mutagenicity Not classified. Not classified. Carcinogenicity Reproductive toxicity Not classified. Specific target organ toxicity -Not classified.

single exposure

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not classified. Mixture versus substance

information

Not available.

Other information Not available.

SECTION 12: Ecological information

No test data available for the product. 12.1. Toxicity

12.2. Persistence and

degradability

No data available.

12.3. Bioaccumulative potential No data available. No data available. Partition coefficient

n-octanol/water (log Kow)

Not available. **Bioconcentration factor (BCF)** No data available. 12.4. Mobility in soil No data available. Mobility in general

12.5. Results of PBT

Not a PBT or vPvB substance or mixture.

and vPvB assessment

12.6. 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.

Purolite® MB46 SDS UK

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Dispose of in accordance with local regulations.

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

EU waste codeWaste codes should be assigned by the user based on the application for which the product was

used.

Disposal methods/information 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.

SECTION 14: Transport information

ADR

14.1. - 14.6.: Not regulated as dangerous goods.

RID

14.1. - 14.6.: Not regulated as dangerous goods.

ADN

14.1. - 14.6.: Not regulated as dangerous goods.

IATA

14.1. - 14.6.: Not regulated as dangerous goods.

IMDG

14.1. - 14.6.: Not regulated as dangerous goods.

14.7. Transport in bulk

according to Annex II of Marpol

and the IBC Code

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not applicable.

Not listed

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Not listed.

Other regulations This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006. The

product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation)

as amended and respective national laws implementing EC directives.

National regulations Follow national regulation for work with chemical agents.

Purolite® MB46 SDS UK

SECTION 16: Other information

List of abbreviations

DNEL: Derived No-Effect Level.

PNEC: Predicted No-Effect Concentration, PBT: Persistent, bioaccumulative and toxic. vPvB: Very Persistent and very Bioaccumulative.

References

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any H-statements not written out in full under

H319 Causes serious eye irritation.

Sections 2 to 15

Training information

Follow training instructions when handling this material.

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

2(9) of REACH.

Not available.

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 UK

Version #: 03