

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® IP4

Registration number

Synonyms Issue

None.

date Version

04-April-2017

number Revision date Supersedes

01

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.

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1.4. Emergency telephone

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number

Purolite® IP4

+1 760 602 8703

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

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

2.2. Label elements

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

None. Hazard pictograms Signal word None.

The mixture does not meet the criteria for classification. Hazard statements

Precautionary statements

Prevention

Use personal protective equipment as required. P281

Response

Get medical advice/attention if you feel unwell. P314

Storage Store away from incompatible materials.

Disposal

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

None. Supplemental label information

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

CAS-No. / EC No. REACH Registration No. Chemical name % INDEX No. Notes 100 9010-79-1 Polypropylene copolymer

Classification:

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in Composition comments

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.

4.1. Description of first aid measures

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

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.

Rinse mouth thoroughly. Never give liquid to an unconscious person. Do not induce vomiting. If Ingestion

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

Dusts may irritate the respiratory tract, skin and eyes.

4.3. Indication of any

immediate medical attention and special treatment needed Treat symptomatically.

SECTION 5: Firefighting measures

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

and other toxic gases or vapours.

5.1. Extinguishing media

Suitable extinguishing

media

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

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.

Purolite® IP4 SDS UK 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

Wear appropriate protective equipment and clothing during clean-up. 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

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

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 of the SDS).

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

No exposure limits noted for ingredient(s)

Follow standard monitoring procedures.

Biological limit values

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

Recommended monitoring

procedures

Not available

Derived no effect levels

(DNELs)

Not available.

Predicted no effect

concentrations (PNECs)

This material does not have established exposure limits.

Exposure guidelines 8.2. Exposure controls

Appropriate engineering

controls

Provide adequate ventilation. Provide eyewash station.

Individual protection measures, such as personal protective equipment

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

discussion with the supplier of the personal protective equipment.

If contact is likely, safety glasses with side shields are recommended. 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.

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

No personal respiratory protective equipment normally required. Respiratory protection

None known. Thermal hazards

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.

Purolite® IP4 SDS UK Environmental exposure

Environmental manager must be informed of all major spillages.

controls

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state Solid.

Form Small cylinders.
Colour Colourless.
Odour Odourless.
Odour threshold Not available.
pH Neutral.
Melting point/freezing point Not available.

Initial boiling point and boiling

g Not available.

range

Flash point Not applicable.

Evaporation rate Not applicable.

Flammability (solid, gas) Non flammable.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

(%)

Vapour pressure Not available.

Vapour density Not applicable.

Relative density 0.84 - 0.86

Solubility(ies) Insoluble.

Partition coefficient No data available.

(n-octanol/water)

Auto-ignition temperature

Decomposition temperature

Viscosity

Explosive properties

Oxidising properties

Not applicable.

Not available.

Not available.

Not available.

9.2. Other information No relevant additional information available.

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 No.

10.4. Conditions to avoid

reactions

No dangerous reaction known under conditions of normal use.

Contact with incompatible materials. Heat, sparks, flames, elevated temperatures.

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

decomposition products vapours.

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.

Skin contact May cause mild skin irritation.

Eye contact May cause eye irritation on direct contact.

Ingestion May cause discomfort if swallowed.

Symptoms Dusts may irritate the respiratory tract, skin and eyes.

11.1. Information on toxicological effects

Acute toxicity May cause discomfort if swallowed.

Purolite® IP4 SDS UK

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

Serious eye damage/eye

irritation

May cause eye irritation on direct contact.

Respiratory sensitisation Due to partial or complete lack of data the classification is not possible.

Skin sensitisation Due to partial or complete lack of data the classification is not possible.

Carcinogenicity Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity -

single exposure

Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity -

repeated exposure

Due to partial or complete lack of data the classification is not possible.

Aspiration hazard Not relevant, due to the form of the product.

Mixture versus substance

information

Not available.

Other information Not available

SECTION 12: Ecological information

12.1. Toxicity The product components are 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.

12.2. Persistence and

degradability

The product is not expected to be biodegradable.

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

Partition coefficient n-octanol/water (log Kow)

Bioconcentration factor (BCF)

Not available.

12.4. Mobility in soil The product is insoluble in water.

Mobility in general No data available.

12.5. Results of PBT

and vPvB assessment

Not a PBT or vPvB substance or mixture.

12.6. Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Dispose of in accordance with local regulations.

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

EU waste code Waste 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.

Revision date: -

14.7. Transport in bulk Not applicable.

according to Annex II of Marpol

and the IBC Code

932736 Version #: 01

Purolite® IP4 SDS UK

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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 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

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 15.2. Chemical safety Follow national regulation for work with chemical agents. No Chemical Safety Assessment has been carried out.

assessment

SECTION 16: Other information

List of abbreviations

DNEL: Derived No-Effect Level.

PNEC: Predicted No-Effect Concentration. PBT: Persistent, bioaccumulative and toxic, vPvB: Verv

Persistent and very Bioaccumulative.

ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways.

ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road.

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.

IATA: International Air Transport Association.

IMDG Code: International Maritime Dangerous Goods Code.

MARPOL: International Convention for the Prevention of Pollution from Ships.

References Not available.

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. 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 None.

not written out in full under

Sections 2 to 15

Training information Follow training instructions when handling this material.

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Further information

Disclaimer

This mixture is exempted from Registration according to the provisions of Title II and VI and Article 2(9) of REACH.

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.



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