

Section: 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Purolite® MB378
 Purolite® MB378

Other means of identification : Not applicable.

Recommended use : Ion Exchange, Absorbent and/or Catalyst

Restrictions on use : Reserved for industrial and professional use.

Company : Purolite K.K.
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Section: 2. HAZARDS IDENTIFICATION
GHS Classification

Serious eye damage/eye irritation : Category 2A

GHS Label element

Hazard pictograms :



Signal Word : Warning

Hazard Statements : Causes serious eye irritation.

Precautionary Statements : **Prevention:**
 Wash skin 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.

Other hazards : None known.

Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Mixture

Chemical Name	CAS-No.	Concentration: (%)
Polymer	Proprietary Ingredient	10 - 30
Polymer	Proprietary Ingredient	10 - 30

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Section: 4. FIRST AID MEASURES

If inhaled	: Get medical attention if symptoms occur.
In case of skin contact	: Rinse with plenty of water.
In case of eye contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.
If swallowed	: Rinse mouth. Get medical attention if symptoms occur.
Protection of first-aiders	: If potential for exposure exists refer to Section 8 for specific personal protective equipment.
Notes to physician	: Treat symptomatically.
Most important symptoms and effects, both acute and delayed	: See Section 11 for more detailed information on health effects and symptoms.

Section: 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	: None known.
Specific hazards during firefighting	: Not flammable or combustible.
Hazardous combustion products	: Decomposition products may include the following materials: Carbon oxides nitrogen oxides (NOx) Sulphur oxides
Special protective equipment for firefighters	: Use personal protective equipment.
Specific extinguishing methods	: Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

Section: 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.
Environmental precautions	: Do not allow contact with soil, surface or ground water.
Methods and materials for containment and cleaning up	: Sweep up and shovel into suitable containers for disposal.

Section: 7. HANDLING AND STORAGE

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Advice on safe handling	: Avoid contact with skin and eyes. Wash hands thoroughly after handling. In case of mechanical malfunction, or if in contact with unknown dilution of product, wear full Personal Protective Equipment (PPE).
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice. Wash face, hands and any exposed skin thoroughly after handling.
Conditions for safe storage	: Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.

Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Threshold limit value and permissible exposure limits for each component in the work environment

Contains no substances with occupational exposure limit values.

Engineering measures

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal protective equipment

Eye protection	: Safety glasses with side-shields
Hand protection	: No special protective equipment required.
Skin protection	: No special protective equipment required.
Respiratory protection	: No personal respiratory protective equipment normally required.

Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Beads
Colour	: white, off-white, amber, brown
Odour	: odourless
Melting point/freezing point	: no data available
Initial boiling point and boiling range	: no data available
Flammability	: (solid, gas): no data available (liquid): Not applicable.
Lower and upper explosion limit/flammability limit	: no data available
Flash point	: Not applicable.
Auto-ignition temperature	: no data available
Thermal decomposition	: no data available
pH	: Not applicable.
Viscosity	: no data available
Solubility	: insoluble (water)

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Partition coefficient: n-octanol/water	: no data available
Vapour pressure	: no data available
Relative density	: 1.05 - 1.28
Relative vapour density	: no data available
Particle characteristics	: no data available

Section: 10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reaction known under conditions of normal use.
Conditions to avoid	: None known.
Incompatible materials	: None known.
Hazardous decomposition products	: In the event of fire, see Section 5

Section: 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	: Eye contact, Skin contact
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Potential Health Effects

Eyes	: Causes serious eye irritation.
Skin	: Health injuries are not known or expected under normal use.
Ingestion	: Health injuries are not known or expected under normal use.
Inhalation	: Health injuries are not known or expected under normal use.
Chronic Exposure	: Health injuries are not known or expected under normal use.

Experience with human exposure

Eye contact	: Redness, Pain, Irritation
Skin contact	: No symptoms known or expected.
Ingestion	: No symptoms known or expected.
Inhalation	: No symptoms known or expected.

Toxicity

Product

Acute oral toxicity	: no data available
Acute inhalation toxicity	: no data available

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Acute dermal toxicity : no data available
Skin corrosion/irritation : no data available
Serious eye damage/eye irritation : no data available
Respiratory or skin sensitization : no data available
Carcinogenicity : no data available
Reproductive effects : no data available
Germ cell mutagenicity : no data available
STOT - single exposure : no data available
STOT - repeated exposure : no data available
Aspiration toxicity : no data available

Components

Acute oral toxicity : Polymer
LD50 rat: > 5,000 mg/kg

Components

Serious eye damage/eye irritation : Polymer
Serious eye damage/eye irritation - Category 2A
Polymer
Eye irritation - Category 2

Section: 12. ECOLOGICAL INFORMATION

Toxicity

Environmental Effects : This product has no known ecotoxicological effects.

Product

Toxicity to fish : no data available
Toxicity to daphnia and other aquatic invertebrates : no data available
Toxicity to algae : no data available

Persistence and degradability

no data available

Bioaccumulative potential

no data available

Mobility in soil

no data available

Hazard to the ozone layer

no data available

Other adverse effects

no data available

Section: 13. DISPOSAL CONSIDERATIONS

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Information on safe and environmentally desirable disposal or recycling of the chemical (waste from residues), contaminated containers and packaging to which the chemicals are attached

Disposal considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers. Dispose of in accordance with local, state, and federal regulations.

Section: 14. TRANSPORT INFORMATION

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport

Not dangerous goods

Sea transport (IMDG/IMO)

Not dangerous goods

Regulatory information in case there are domestic regulations:

Land transportation: Follow the transportation methods stipulated in the Fire Service Law, Poisonous and Deleterious Substances Control Law, Industrial Safety and Health Law, etc.

Sea transportation: Follow the transportation method stipulated in the Ship Safety Law.

Air transportation: Follow the transportation method stipulated in the Aviation Law.

Section: 15. REGULATORY INFORMATION

National regulatory information

Industrial Safety and Health Law

Publication of Technical Guidelines Article 28 (3)

Not applicable.

Carcinogenic Substances (Article 577-2 of the Occupational Health and Safety Regulations)

Not applicable.

Mutagenic existing chemical substances

Not applicable.

Mutagenic new chemical substances

Not applicable.

Hazardous Substances Requiring Notification SDS Table 9

Not applicable.

Hazardous Substances Subject to Labeling Requirements

Not applicable.

Skin and Eye Damage Substances for PPE Requirements (ISHL MO Art. 594-2)

Not applicable.

Ordinance on Prevention of Specified Chemical Substances Hazards

Not applicable.

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Ordinance on Prevention of Organic Solvent Poisoning

Not applicable.

Enforcement Order of the Industrial Safety and Health Law: Dangerous Substances

Not applicable.

Poisonous and Deleterious Substances Control Law

Not applicable.

Law concerning Pollutant Release and Transfer Register (PRTR Law)

Not applicable.

Information of the other applicable regulations name and regulations based on its regulation.

Fire Service Law

Not applicable to dangerous materials / designated flammables.

Water Pollution Control Law

Not applicable.

Section: 16. OTHER INFORMATION

Sources of key data used to compile the Safety Data Sheet
Globally Harmonized System of Classification and Labelling of Chemicals (GHS)
IARC: (International Agency for Research on Cancer)
US. National Toxicology Program (NTP) Report on Carcinogens
ECHA List of Publishable Substances Registered
EU HPVCs (High Production Volume Chemicals)

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