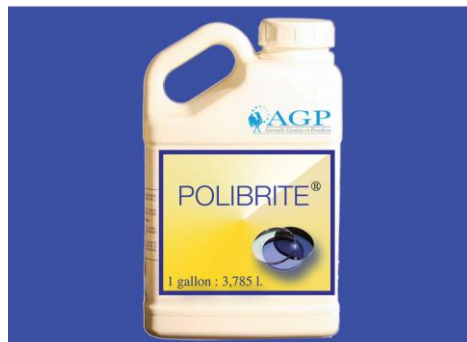


Polibrite



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1 – Product and Company Identification

Product Name: Polibrite
Product Code: 6900205
Pure substance/preparation: Preparation
Relevant identified uses of the substance or mixture and uses advised against
Recommended Use Industrial use only

2 – Hazards Identification

Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 1999/45/EC.

Hazard Symbols

This preparation is not classified as dangerous according to Directive 1999/45/EC.

Most important hazards

Not applicable.

Contains: 1,2 Ethanediamine, polymer with 2-methyloxirane and oxirane
 May produce an allergic reaction.

3 – Composition/Information on Ingredients

Components	CAS-no.	REACH-no.	EC-no	Weight	Classification 67/548/EC	CLP Classification
Aluminium oxyde	1344-28-1	No data available	215-691-6	10 - 20 %	Not classified	Not classified
Aluminium trinitrate nonahydrate	7784-27-2	No data available	-	1 - 5 %	Xi; R36/38 O; R8	Ox. Sol. 2 (H272) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)

For the full text of the R-phrases mentioned in this Section, see Section 16.

4 – First Aid Measures

Description of first-aid measures

Eye contact:	Rinse immediately with plenty of water, also under the eyelids. Get medical attention if irritation develops.
Skin contact:	Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use. If symptoms persist, call a physician.
Inhalation:	Move to fresh air in case of accidental inhalation of vapors or decomposition products. Get medical attention if symptoms occur.
Ingestion:	Drink plenty of water. Do not induce vomiting. Consult a physician.

Notes to doctor: Treat symptomatically.

Most important symptoms and effects, both acute and delayed

No information available.

Indication of immediate medical attention and special treatment needed

Protection of first-aiders: Treat symptomatically.

5 – Fire Fighting Measures

Extinguishing media

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
No information available

Extinguishing media which must not be used for safety reasons:

Special hazards arising from the substance or mixture: None in particular
Special exposure hazards arising from the substance or Preparation itself, combustion products, resulting gases

Advice for emergency responders:

Special protective equipment for fire-fighters As in any fire, wear self-contained breathing apparatus and full protective gear.

6 – Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal precautions: Remove all non-essential people from the affected area. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes and clothing. Wear personal protective equipment.

Other information See section 8 for additional information.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system.

Methods and materials for containment and cleaning up:

Dike to collect large liquid spills. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Wear personal protective equipment. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Clean contaminated surface thoroughly. Dispose of promptly.

Reference to other sections

See Section 13 for additional information.

7- Handling and Storage

Precautions for Safe Handling

Handling:

Handle in accordance with good industrial hygiene and safety practice. Use only in area provided with appropriate exhaust ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes and clothing. Wear personal protective equipment.

Hygiene measures:

Avoid contact with skin and eyes. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Keep tightly closed in a dry, cool and well-ventilated place.

Specific End Uses

Exposure Scenario

No information available

Other Guidelines

No information available

8 – Exposure Controls / Personal Protection

Control parameters

Exposure Limits

Components	EU	UK OEL:	France	Spain	German mak:
Aluminum Oxide 1344-28-1			10 mg/m ³ TWA VME	10 mg/m ³ TWA VLA-ED	4 mg/m ³ 1.5 mg/m ³

Components	Italy	Netherlands	Portugal	Finland	Denmark
Aluminum Oxide 1344-28-1			10 mg/m ³ TWA VLE-MP Particle matter containing no Asbestos and & lt; 1% Crystalline silica		5 mg/m ³ TWA 2 mg/m ³ TWA

Components	Ireland	Austria	Switzerland	Poland	Norway
Aluminum Oxide 1344-28-1		10 mg/m ³ STEL KZW alveolar dust, respirable fraction smoke 2 X 60 min 5 mg/m ³ TWA TMW alveolar dust, respirable fraction, smoke	24 mg/m ³ STEL KZW respirable, smoke 3 mg/m ³ TWA MAK Respirable, smoke	2.5 mg/m ³ TWA NDS 1.2 mg/m ³ TWA NDS	10 mg/m ³ TWA

Components	Turkey	Hungary	Russia	New Zealand
Aluminum Oxide 1344-28-1		6 mg/m ³ TWA	6 mg/m ³ TWA	10 mg/m ³ TWA

Derivation of DNEL(s)

No information available

Derivation of the PNEC

No information available

Exposure controls

Engineering measures:

Provide for appropriate exhaust ventilation and dust collection at machinery. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal protective equipment

- ✓ **Eye protection:** Safety glasses with side-shields.
- ✓ **Hand protection:** Impervious gloves.
- ✓ **Skin and body protection:** Lightweight protective clothing. Keep work clothes separately. Remove and wash contaminated clothing before re-use
- ✓ **Respiratory protection:** In case of insufficient ventilation, wear suitable respiratory equipment.

Hygiene measures	Avoid contact with skin and eyes. Wash thoroughly after handling. Do not eat or smoke when using this product.
Environmental Exposure Controls	Prevent product from entering drains. Do not allow material to contaminate ground water system.

9 – Physical and Chemical Properties

General Information

Physical state:	Liquid
Color:	White
Odor:	None

Important health safety and environment information

Flash Point:	Not combustible
Flammability (solid, gas):	No information available
Boiling point/Boiling range:	No information available
pH:	3.5
Vapor pressure:	No information available
Viscosity:	No information available
Partition coefficient (n-octanol/water):	No information available
Specific gravity (Water=1):	1.2
Evaporation Rate (Water=1)	No information available
Relative density:	No information available
Vapor density:	No information available
Decomposition Temperature:	No information available
Flammable limits in air – upper (%):	No information available
Flammable limits in air – lower (%):	No information available

Other information

Refractive index:	No information available
Surface tension:	No information available
Melting Point/Range:	No information available
Freezing Point:	No information available
Explosive properties:	No information available
Oxidizing properties:	No information available

10 – Stability and Reactivity

Reactivity

No data available.

Chemical Stability

Stable under normal conditions.

Possibility of Hazardous Reactions

Hazardous Polymerization None under normal processing.

Conditions to avoid

To avoid thermal decomposition, do not overheat.

Incompatible materials

Strong oxidizing agents.

Hazardous Decomposition Products

None under normal processing.

11 – Toxicological Information

Information on toxicological effects

Acute toxicity

Product information

Product does not present an acute toxicity hazard based on known or supplied information.

Inhalation

Avoid breathing vapors or mists. May cause irritation of respiratory tract.

Eye contact

Contact with eyes may cause irritation

Skin contact

Prolonged skin contact may cause irritation.

Ingestion

May cause irritation.

Irritation

Moderately irritating to the eyes.

Corrosivity

None

Sensitization

No information available

Mutagenic Effects

None

Components	LD50 Oral	LD50 Dermal	DC50 Inhalation
Aluminum trinitrate nonahydrate 7784-27-2	3671 mg/kg (Rat)		
Alumina oxide 1344-28-1	5000 mg/kg (Rat)		
Organometallic aluminum derivative	5050 mg/kg (Rat)		

Carcinogenic Effects

No information available

Reproductive Toxicity

No information available

Development Toxicity

No information available

STOT – single exposure

No information available

STOT – repeated exposure

No information available

Aspiration Hazard

No information available

Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors.

12 – Ecological information

Toxicity

Ecotoxicity Effects

Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants.

Persistence and degradability

No information available

Bioaccumulative potential

No information available

Mobility in soil

No information available

Results of PBT and vPvB assessment

Not classified

Other adverse effects

Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors.

13 – Disposal Considerations

Waste treatment methods

Waste from Residues/unused Products

Dispose in accordance with local regulations.

Contaminated Packaging

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

14 – Transport information

<u>IMDG/IMO</u>	Not regulated
<u>RID</u>	Not regulated
<u>Adr:</u>	Not regulated
<u>IATA-DGR</u>	Not regulated
<u>IATA</u>	Not regulated

15 – Regulatory information

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

International Inventories

U.S. EPA TSCA 8 (b)	Listed or exempt
Europe (EINECS)	Listed or exempt
Canada DSL/NDSL List	All ingredient(s) are listed on the DSL or NDSL
Philippines (PICCS)	Listed
Japan (ENCS)	Listed or exempt
China (IECS)	Listed
Australia (AICS)	Listed
Korea (KECL)	Listed

Legend

TSCA –	United States Toxic Substances Control ACT Section 8(b) Inventory
EINECS/ELINCS –	European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
DSL/NDSL –	Canadian Domestic Substances List/Non-Domestic Substances List
PICCS –	Philippines Inventory of Chemicals and Chemical Substances
ENCS –	Japan Existing and New Chemical Substances
IECSC –	China Inventory of Existing Chemical Substances
AICS –	Australian Inventory of Chemical Substances
KECL –	Korean Existing and Evaluated Chemical Substances

Chemical Safety Assessment

Not applicable

16 – Other Information

List of relevant R-phrases

R8 - Contact with combustible material may cause fire.
R36/38 – Irritating to eyes and skin

The information and recommendations contained in this Material Safety Data Sheet have been compiled from sources believed to be reliable and to represent the most reasonable current opinion on the subject when the MSDS was prepared. No warranty, guaranty or representation is made as to the correctness or sufficiency of the information. The user of this product must decide what safety measures are necessary to safely use this product, either alone or in combination with other products, and determine its environmental regulatory compliance obligations under any applicable federal or state laws.