



## SAFETY DATA SHEET

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### 1. Identification of the substance / preparation and the company.

Product name and code: Blackboard Paint  
Material uses: Water-based dye for walls and school boards.  
Identification company: MagPaint Europe B.V.  
Elsterweg 3a  
NL – 7076 AZ Veldhunten  
THE NETHERLANDS  
Telephone: (31) 315-386473  
Telefax: (31) 315-386480  
E – mail: [info@MagPaint.com](mailto:info@MagPaint.com)  
Emergency telephone number: (24 hour), (31)30 – 2748888, only for the doctor.  
Vergiftiging informatie centrum Utrecht, The Netherlands.

### 2. Hazard identification.

The preparation is not classified as dangerous according to Directive 1999/45/EC or Directive 67/548/EEC and its amendments.

### 3. Hazard identification.

Ingredient	% weight	danger	CAS#	EC#	REACH#
Isobutric acid, monoester with 2,2,4-trimethylpentane-1,3-diol	< 10	R52	25265-77-4	246-771-9	-
2-(2-Butoxyethoxy)ethanol	< 10	Xi; R36	112-34-5	203-961-6	-

The full text of each relevant R phrase can be found in heading 16.

### 4. First – aid measures.

General: If in doubt, or if the pain persists, seek medical attention.  
Eye contact: Slightly irritating. Contamination of the eyes must be treated by thorough irrigation with water for 10 minutes, with the eyelids held open. A doctor (or eye specialist) should be consulted immediately.  
Skin contact: Wash skin thoroughly with copious water, then wash with soap and water if available. Remove contaminated clothing. Do not use solvents.  
Swallowing: If the patient has swallowed it, alert a doctor immediately, show the packing with the label or take the safety information sheet along.  
DO NOT induce patient to vomit.  
If aerosol or vapour is inhaled in high concentrations: Take the person into the fresh air and keep him warm, let him rest. Give artificial respiration if breathing is irregular or has stopped. If the patient is unconscious, put him in recovery position and call a doctor.  
Further medical treatment: Symptomatic treatment and supportive therapy as indicated.



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### 5. Fire – fighting measures.

Extinguishing media suitable: Carbon dioxide (CO<sub>2</sub>), foam, dry powder, water jet.  
Extinguishing media which must not be used for safety reasons: none.  
Special exposure hazards arriving from substance or preparation itself, combustion products, resulting gases: Possible combustion products are carbon monoxide and carbon dioxide. Fire causes thick black smoke.  
Protection of fire-fighters: Fire fighters should wear self-contained breathing apparatus. Use qualified personnel who are well aware of the dangers of this product. After use, clean the equipment thoroughly (shower, clean clothing thoroughly and check suitability).  
Supplementary data: Exposure to decomposition products can be dangerous to the health. Prevent spilled liquid from entering drains.

### 6. Accidental release measures.

Personal precautions: People dealing with major spillages should wear personal protective clothing including breathing protection (if the ventilation is inadequate) when cleaning up the spillage. Avoid contact with the eyes and skin. Remove sources of ignition and ventilate the room well. Do not inhale vapours.  
Environmental precautions: Do not discharge into drains, sewers, watercourses or the environment. If significant quantities are being released in the environment, inform the authorities according to the local rules. Spills on porous surfaces can contaminate groundwater.  
Clean up methods: Absorb spillages onto sand, earth or any suitable adsorbent material. Wash the spillage area clean with water and detergent; avoid the use of solvents. Collect the waste in suitable containers before disposing of it.

### 7. Handling and storage.

Handling: When handling observe the usual precautionary measures for chemicals. Do not breathe vapour / spray. Use only in well-ventilated surroundings. The vapours are heavier than air and can spread along the floor. The vapours, combined with air, can form an explosive mixture. Avoid the formation of explosive concentrations of vapours in the air, and higher than permissible exposure concentrations. The product may be used only in rooms without unshielded lighting or other ignition sources. Electrical equipment must be protected according to specified standards. The product can have an electrostatic charge on it: always use an earth contact when it is transferred from one container to another. Clothing and shoes must be anti-static and conductive. Keep the container tightly closed. Protect it against heat, sparks and open fire. Devices that spark must not be used. Avoid contact with eyes and skin. There is a danger of slipping on the spillage. If evaporation takes place at 20 °C, a contamination that is hazardous for health occurs slowly; however during spray painting, this hazardous contamination occurs sooner.






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**7. Handling and storage (continue).**

Storage:	Keep container tightly closed. Prevent product temperatures above 40 °C and below 5 °C. Keep away from direct sunlight. Do not allow it to exceed the room temperature. Frost can damage the product. Keep the container properly closed when not in use. Containers which have been opened should be closed carefully and stored upright to prevent leakage.
Specific use(s):	Water-based dye for walls and school boards.

**8. Exposure controls / personal protection.**

Ingredient name	Occupational exposure limits UK (OES / MAC – list).
2-(2-Butoxyethoxy)ethanol	TGG 8 hours 67,5 mg / m <sup>3</sup> (10 ppm) TGG 15 minutes 101,2 mg / m <sup>3</sup> (15 ppm) Also EU value (2006/15/EC).
Personal protective equipment: Respiratory protection:	Do not smoke, eat or drink whilst working. Ensure sufficient ventilation. Wherever possible, this must be achieved by using the local air exhaust and a good general suction capacity. Floor ventilation.
Skin and body: 	Wear suitable protective clothing (preferably heavy cotton), gloves and eye / face protection. Do not add solvents or thinner.
Hands: 	Wash hands before breaks and at the end of work. Protective gloves should be worn when handling with the product. A barrier cream can help screen off the exposed parts of the skin.
Eyes: 	Close-fitting safety goggles (even when working on small quantities). Face mask with complete eye protection when using sprays.



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**9. Physical and chemical properties.**

General information.

Appearance: Liquid.  
Colour: -  
Odour: Characteristic.

Important health, safety and environmental information.

pH: 8,5 - 9,0.  
Boiling point:  $\pm 100$  °C.  
Flash point:  $> 61$  °C.  
Ignition temperature: 230 °C.  
Upper explosion limit: 17.4 V-%.  
Lower explosion limit: 0.7 V-%.  
Explosive properties: Possible formation of explosive vapour/ air mixture above 78 °C.  
Fire-conductive properties: This product has no fire-sensitive properties as understood under the guidelines for hazardous substances.  
Vapour pressure:  $\pm 240$  mbar at 20 °C.  
Relative density: 1,07 (water = 1).  
Solubility in water: Partly soluble in water.  
Viscosity: 4.000 mPa.s at 20 °C.  
Vapour density: Not available.  
Evaporation rate: Not available.  
Solvent vapours: 6 %.

**10. Stability and reactivity.**

Stability: Stable at room temperature.  
Conditions to avoid: Avoid high and low temperatures.  
Materials to avoid: Avoid all contact with oxidants, strong alkalines and strong acids to avoid exothermic reactions.  
Hazardous decomposition products: Unlikely under normal (industrial) use and at operating temperatures. If exposed to high temperatures, it may break down into dangerous products such as carbon monoxide and carbon dioxide, smoke and nitrogen oxides. Possible formation of explosive peroxide.



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**11. Toxicological information.**

Acute toxicity from the components.

Product information:	Isobutric acid, monoester with 2,2,4-trimethylpentane-1,3-diol.
LD50 (Oral, rat):	> 3.200 g / kg.
LD50 (Dermal, rabbit):	15,2 g / kg.
LD50 (Inhalation, rat):	3,55 mg / m <sup>3</sup> (6 hours).
Product information:	2-(2-Butoxyethoxy)ethanol.
LD50 (Oral, rat):	> 5.080 mg / kg.
LD50 (Dermal, rabbit):	2.764 mg / kg.

This health hazard assessment is based on information of the components.

Effects on the eyes:	Slightly irritation. Redness. Pain. Irreparable damage.
Effects on the skin:	Repeated or long-term exposure to the product can cause depletion in the skin fats, which can cause non-allergic contact eczema, through which the substance can be absorbed through the skin.
Effect on the respiratory organs:	Exposure to mixed vapours of the solvents in concentrations higher than the maximum exposure limit can have damaging effect on health, such as irritation of the mucuous membrane and the respiratory organs, and can adversely affect the kidneys, the liver and the central nervous system. Some of the symptoms are headache, dizziness, tiredness, muscular weakness, sleepiness and, in extreme cases, loss of consciousness. Absorption of solvents by the skin can cause some of the above symptoms. Spray working increases severity of the effects described.
Ingestion:	Not known.

Preparation contains volatile organic compounds (VOC components), according to the criteria of the directive on VOC products (EU directive 1999/13). A volatile organic compound (VOC) mean any organic compound having at 293,15 K a vapour pressure of 0,01 kPa or more, or having a corresponding volatility under the particular conditions of use.

The total amount in this preparation = 62 g / l.



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### 12. Ecological information.

Ecotoxicity from the components.

Product information: Isobutric acid, monoester with 2,2,4-trimethylpentane-1,3-diol.

LC<sub>50</sub> (fish, Pimephales promelas): 30 mg / l (96 hours).

EC<sub>50</sub> (Daphnia): > 95 mg / l (96 hours).

LC<sub>50</sub> (worm, Dugesia dorotocephala): 38 mg / l (96 hours).

Product information: 2-(2-Butoxyethoxy)ethanol.

LC<sub>50</sub> (fish, Leuciscus idus): 1.805 - 2.304 mg / l (48 hours).

EC<sub>50</sub> (Daphnia magna): 3.300 mg / l (24 hours).

Mobility: No data.

Persistence / degradability: No data.

Bioaccumulation: No data.

Ecotoxicity other: Prevent product from entering drains or surface waters.

WGK: 2 (Wassergefährdungsklasse or water pollution class,  
German Water Resources Act., slight water pollutant).

### 13. Disposal considerations.

Product waste: Incinerate in a hazardous waste incinerator suitable for the disposal of noxious chemical waste in accordance with the relevant regulation. The generation of waste should be avoided or minimised wherever possible. Waste, even small quantities, should never be poured down drains, sewers or watercourses.

Eural code for waste: 08 01 11\*. WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS, wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other dangerous substances. Classified as hazardous waste.

Empty containers: Remove any residue adhering to the walls. Residues and empties must be delivered to recognised collectors.

### 14. Transport information.

Not dangerous cargo.



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### 15. Regulatory information.

EG regulations.  
Hazard symbol: Not classified according to the EU regulations.  
EU labeling classification: No dangerous substance.  
R – (risk) phrases:  
S – (safety) phrases: S2 Keep out of the reach of children.  
Additional warning: Contains 2-(2-butoxyethoxy)ethanol (indexnumber 603-096-00-8).  
VOC content: 62 g / l.



Waste symbol:

### 16. Other information.

List of relevant R - phrases referred to under headings 2 and 3:  
R36 - Irritating to eyes.  
R52 - Harmful to aquatic organisms.

History: Date of PDF printing: 20 September 2007.  
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The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the product's properties. In all cases, it is the responsibility of the user to determine the applicability of such information and recommendations and the suitability of any products for its own particular purpose.

Information source: - IUCLID dataset substance ID: 112-34-5, 18.02.2000;  
- IUCLID dataset substance ID: 25265-77-4, 18.02.2000.

Safety data sheet according regulation (EC) No 1907/2006 of the European parliament and of the council from 18 December 2006 concerning the registration, evaluation, authorisation and restriction of chemicals (REACH).

Blackboard Paint is a trademark of MagPaint Europe B.V..

### Annex.

From the raw materials in this recipe, at the moment of drafting this safety data sheet, no chemical safety reports according to regulation (EC) no. 1907/2006 has been registered.