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5. FIRE-FIGHTING MEASURES

5.1 Means of Extinction: Extinguishing powder or CO₂. In the case of more important fires, also alcohol resistant foam and water spray/mist. Do not use for extinguishing: direct water jet.

5.2 Specific risks: As consequence of combustion or thermal decomposition, hazardous decomposition products may be produced, such as: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products may be a hazard to health.

5.3 Fire-proof protective equipment: Depending on magnitude of fire, heat-proof protective clothing may be required, appropriate independent breathing apparatus, gloves, protective glasses or face masks and boots.

5.4 Other recommendations: Cool with water the tanks, cisterns or containers close to sources of heat or fire. Bear in mind the direction of the wind. Do not allow fire-fighting residue to enter drains, sewers or water courses.

6. ACCIDENTAL SPILLAGE MEASURES

6.1 Personal precautions: Eliminate possible sources of ignition and when appropriate, ventilate the area. Do not smoke. Avoid direct contact with this product. Avoid breathing vapours. For exposure controls and personal protection measures, see section 8.

6.2 Environmental precautions: Avoid contamination of drains, surface or subterranean water and soil. In the case of large scale spills or when the product contaminates lakes, rivers or sews, inform the appropriate authorities in accordance with local regulations.

6.3 Cleaning-up methods: Contain and mop up spills with non-combustible absorbent materials (earth, sand, vermiculite, diatomaceous earth, etc..). Avoid use of solvents. Keep the remains in a closed container. For subsequent waste disposal, follow the recommendations in section 13.

***7. HANDLING AND STORAGE**

7.1 Handling precautions: Comply with the existing legislation on health and safety at work.

- General recommendations: Use in areas free from sources of ignition and away from heat or electrical sources. Do not smoke. Avoid any type of leakage or escape. Keep the container tightly closed.

- Recommendations for the prevention of fire and explosion risks: Vapours are heavier than air and may spread along floors to a considerable distance. Vapours can form explosive mixtures with air and are able to reach distant ignition sources and flame up or explode. Due to its flammability, this material should only be used in areas from which all naked lights and other sources of ignition have been excluded and away from other heat or electrical sources. Switch mobile phones off and do not smoke. If this product is used in an industrial installation, the zones with risk of explosion should be marked. Use instruments, systems and protective equipment adequate to the classification of zones, according to the health and safety at work laws, in accordance with Directive 94/9/EC and 99/92/EC. Electrical equipment should be protected to the appropriate standard. No tools with a potential for sparks should be used. Elaborate the document 'Protection against explosions'.

- Recommendations for the prevention of toxicological risks: Do not eat, drink or smoke in application and drying areas. After handling, wash hands with soap and water. For exposure controls and personal protection measures, see section 8.

7.2 Storage conditions: Prevent unauthorized access. Keep out of reach of children. This product should be stored isolated from heat and electrical sources. Do not smoke in storage area. In order to avoid leaks, the containers, after use, should be closed carefully and placed in a vertical position. For more information, see section 10.1. Class of store: According to current legislation. Maximum storage period: 12 months. Temperature interval: min: 5°C, max: 32°C.

- Incompatible materials: Keep away from oxidizing agents, from strongly alkaline and strongly acid materials.

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- Type of packaging: According to current legislation.
 - Limit quantity, in accordance with Directive 96/82/EC~2003/105/EC (Seveso III): Not applicable.
- 7.3 Specific uses: For the use of this product do not exist particular recommendations apart from that already indicated.

***8. EXPOSURE CONTROLS/PERSONAL PROTECTION 98/24/EC**

8.1 Occupational Exposure Limits (TLV) AGCIH 2007

	TLV-TWA		TLV-STEL		Year
	ppm	mg/m3	ppm	mg/m3	
Butylglycol	20	98			A3 2003

TLV - Threshold Limit Value, TWA - Time Weighted Average, STEL - Short Term Exposure Limit.

A3 - Carcinogenic in animals.

8.2 Occupational exposure controls, Directive 89/686/EEC: Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these measures are not sufficient to maintain concentrations of particulates and vapours below the Occupational Exposure Limits, suitable respiratory protection must be worn.

- Protection of respiratory system: Avoid the inhalation of vapours. Avoid the inhalation of particles or spray mist arising from the application of this preparation. Mask: Suitable combined filter mask for gases, vapours and particles (EN141/EN143). In order to obtain a suitable protection level, the filter class must be selected depending on the type and concentration of the contaminating agents present, in accordance with the specifications supplied by the filter producers.

- Protection of eyes and face: Install emergency eye baths close to the working area. Goggles: Safety goggles designed to protect against liquid splashes, with suitable lateral protection (EN166). Face shield: No.

- Protection of hands and skin: Install emergency showers close to the working area. Barrier creams may help to protect the exposed areas of the skin. Barrier creams should not be applied once exposure has occurred. Gloves: Gloves resistant against chemicals (EN374). Boots: No. Apron: No. Clothing: Advisable.

8.3 Environmental exposure controls: Avoid any spillage in the environment of the product, wastes, packages or spraybooth sewages. Avoid any release into the atmosphere above the legal limits allowed.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state: Liquid
- Colour: Grey / Black
- Viscosity: $3,5 \times 10^5$ cps 20°C Brookfield
- Specific gravity: 1,19 g/cc at 20°C Hidrotex grey
1,20 g/cc at 20°C Hidrotex black
- Boiling point: >100°C at 760 mmHg
- Flash point: >61°C Setaflash
- Vapour pressure: 17,2 mmHg at 20°C

For additional information concerning physical and chemical properties related to safety and environment, see sections 7 and 12.

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10. STABILITY AND REACTIVITY

10.1 Conditions to avoid: Stable under recommended storage and handling conditions.

- Heat: Keep away from sources of heat.
- Light: If possible, avoid direct contact with sunlight.

10.2 Materials to avoid: Possible dangerous reaction with oxidizing agents.

10.3 Thermal decomposition: As consequence of thermal decomposition, hazardous products may be produced: carbon monoxide.

11. TOXICOLOGICAL INFORMATION

No experimental toxicological data on the preparation is available. The toxicological classification for this preparation has been carried out by using the conventional calculation method of the Directive 1999/45/EC.

11.1 Toxicological effects: Exposure to solvent vapour concentrations in excess of the stated occupational exposure limit, may result in adverse health effects, such as mucous membrane and respiratory system irritation and adverse effects on kidneys, liver and central nervous system. Symptoms and signs include: headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, unconsciousness. Ingestion may result in the following effects: sore throat, abdominal pain, drowsiness, nausea, vomiting and diarrhoea; other effects may be as described for exposure to vapours. Repeated or prolonged contact with the solvents of the preparation, may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. Liquid splashes in the eyes may cause irritation and reversible damage.

This preparation contains glycols that are readily absorbed through the skin and may cause harmful effects on the blood.

11.2 Dose and lethal concentrations for individual ingredients:

	DL50 Oral mg/kg	DL50 Cutaneous mg/kg	CL50 Inhalation mg/m ³ 4hours
Butylglycol	470 Rat	220 Rabbit	

*12. ECOLOGICAL INFORMATION

No experimental ecotoxicological data on the preparation as such is available. The ecotoxicological classification for this preparation has been carried out by using the conventional calculation method of the Directive 1999/45/EC.

12.1 Ecotoxicity for individual ingredients:

	CL50 mg/l.96hours	CE50 mg/l.48hours	CI50 mg/l.72hours
Butylglycol	1395 Fishes	1815 Daphnia	500 Algae

12.2 Mobility: Not available.

- Spills on the soil: Prevent contamination of soil.
- Spills in water: Do not allow to escape into drains, sewers or water courses.
- Emissions to the atmosphere: Avoid any release into the atmosphere.
- Product VOC:

93 g/l Hidrotex grey	ASTM D-3960
94 g/l Hidrotex black	ASTM D-3960

12.3 Persistence and degradability: Not available.

12.4 Bioaccumulative potential: Not available.

12.5 Results of PBT assessment: Not available.

12.6 Other adverse effects: Not available.

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13. CONSIDERATIONS FOR DISPOSAL

13.1 Handling of waste, Directive 75/442/EEC~91/156/EC: Take all necessary measures to prevent the production of waste whenever possible. Analyse possible methods for revaluation or recycling. Do not discharge into drains or the environment, dispose of at an authorised waste collection point. Waste should be handled and disposed of in accordance with current local/national regulations. For exposure controls and personal protection measures, see section 8.

13.2 Disposal of empty containers, Directive 94/62/EC: Emptied containers and packaging should be disposed of in accordance with currently local/national regulations.

13.3 Procedures for neutralising or destroying the product: Authorised landfill in accordance with local regulations.

14. TRANSPORT INFORMATION

14.1 Transport by road, Directive 94/55/EC (ADR):	Free
Transport by rail, Directive 96/49/EC (RID):	Free
14.2 Transport by sea (IMDG):	Free
14.3 Transport by air (ICAO/IATA):	Free

15. INFORMATION ON REGULATIONS

15.1 EC Labelling

This product does not require pictograms in accordance with Directive 67/548/EEC and 1999/45/EC.

S23 Do not breathe vapour, spray.

S29 Do not empty into drains.

S51 Use only in well-ventilated areas.

Safety data sheet available for professional user on request.

Dangerous ingredients: None in a percentage equal to or higher than the limit for the name.

15.2 Restrictions to the marketing and use in accordance with Directive 76/769/EEC: Not applicable.

15.3 Other EC regulations:

- It is applicable the Directive 2004/42/EC, on the limitation of emissions of volatile compounds due to the use of organic solvents: Contains VOC 93 g/l (grey) 94 g/l (black). The limit value 2004/42/CE-IIB cat. E) for the product ready for use is VOC max. 840 g/l.

15.4 Other regulations: Not available.

*16. OTHER INFORMATION

Text of R-phrases listed in section 3:

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R36/38 Irritating to eyes and skin.

Material Safety Data Sheet regulations: Material Safety Data Sheet in accordance with the Annex II of the Regulation (EC) No. 1907/2006 (REACH).

Main data sources:

- European Chemicals Bureau: Existing Chemicals, <http://ecb.jrc.ec.europa.eu/existing-chemicals/>
- Industrial Solvents Handbook, Ibert Mellan (Noyes Data Co., 1970).
- Threshold Limit Values, (AGCIH).

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MATERIAL SAFETY DATA SHEET 2006/1907/EC
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Page: 6/6
SDS-505/EN

- European agreement on the international carriage of dangerous goods by road, (ADR).
 - International Maritime Dangerous Goods Code, IMDG (IMO).
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The information of this Material Safety Data Sheet, is based on the present state of knowledge and on current UE and national laws, as the users' working conditions are beyond our knowledge and control. The product is not to be used for other purposes than those specified, without first obtaining written handling instruction. It is always the responsibility of the user to take all necessary steps in order to fulfil the demand laid down in the local rules and legislation. The information in this Material Safety Data Sheet is meant as a description of the safety requirements of the product and it is not to be considered as a guarantee of the product's properties.
