

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product code : KU400BSG10
Product name : BLUE SHIELD
Manufacturer / Distributor : Flint Group,
 Print Media Europe,
 Varn House,
 Northbank Industrial Park,
 Irlam,
 Greater Manchester,
 M44 5BL
 England.
e-mail address of person responsible for this SDS : compliance.centre@flintgrp.com
Telephone no. : +44 (0) 161 775 5412
Product use : Printing ink or Additive
History
Date of printing : 22.06.2011.
Date of issue/ Date of revision : 11.11.2010.
Date of previous issue : 17.02.2010.
Version : 2

2. HAZARDS IDENTIFICATION**Classification and labeling according to Regulation (EC) 1907/2006 (REACH)**

Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.

The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : Not classified.
Additional warning phrases and Additional information : Safety Data Sheet available for professional user on request.
Risk phrases : This product is not classified according to EU legislation.
Safety phrases : Not applicable.
Contains :

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances presenting a health or environmental hazard within the meaning of the Dangerous Substances Directive 67/548/EEC.

Chemical name	%	REACH Registration number	CAS number	EC number	Classification
glycerol	10-15		56-81-5	200-289-5	Not classified. [2]

See section 16 for the full text of the R-phrases declared above

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] PBT-substance

[4] vPvB-substance

Occupational exposure limits, if available, are listed in section 8.

Hazardous ingredients / Classification according to Regulation (EC) 1272/2008 (CLP)

Chemical name	CAS number	Classification
glycerol	56-81-5	Not regulated.

4. FIRST AID MEASURES

First aid measures

- General** : In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.
- Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
- Skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention/advice.
- Ingestion** : If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Give nothing by mouth. Do NOT induce vomiting.

5. FIRE-FIGHTING MEASURES

- Extinguishing media** : Recommended:, alcohol-resistant foam, CO₂, powders, water spray
- Extinguishing media not to be used** : Do not use water jet.
- Recommendations** : Fire will produce dense black smoke., Exposure to decomposition products may cause a health hazard., Appropriate breathing apparatus may be required., Cool closed containers exposed to fire with water., Do not release runoff from fire to drains or watercourses.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Exclude sources of ignition and ventilate the area. Avoid breathing vapor or spray. Refer to protective measures listed in sections 7 and 8.
- Environmental precautions** : Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.
- Methods for cleaning up** : Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Preferably clean with a detergent. Avoid using solvents.

Note: see section 8 for personal protective equipment and section 13 for waste disposal.

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7. HANDLING AND STORAGE

- Handling** : Keep container tightly closed. Avoid contact with skin and eyes. Avoid inhalation of vapor, spray or mist. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Put on appropriate personal protective equipment (see section 8). Always keep in containers made from the same material as the original one. Comply with the health and safety at work laws.
- Storage** : Store in accordance with local regulations. Observe label precautions. Store between the following temperatures: 5 to 30°C (41 to 86°F). Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep away from sources of ignition. Keep away from: oxidizing agents, strong alkalis, strong acids.
No smoking. Prevent unauthorized access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredient name	Occupational exposure limits
glycerol	EH40/2005 WELs (United Kingdom (UK), 8/2007). TWA: 10 mg/m ³ 8 hour(s). Form: Mist

- Exposure controls** : Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapors below the OEL, suitable respiratory protection must be worn.

Occupational exposure controls

- Respiratory system** : If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators.
- Skin and body** : Personnel should wear antistatic clothing made of natural fibers or of high-temperature-resistant synthetic fibers.
- Hands** : The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
- Gloves** : None available.
- Eyes** : Use safety eyewear designed to protect against splash of liquids.
- Environmental exposure controls** : Do not allow to enter drains or watercourses.

9. PHYSICAL AND CHEMICAL PROPERTIES

General information

Appearance

- Physical state** : Liquid. (Paste.)
- Color** : White.
- Odor** : Characteristic.
- Odor threshold** : Not available.

Important health, safety and environmental information

- pH** : 7
- Boiling point** : >= 100 °C
- Melting point** : Not available.
- Flash point** : Closed cup: >99°C [theoretical]
- Explosive properties** : Not available.
- Lower explosion limit** : Not available.
- Oxidizing properties** : Not available.

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BLUE SHIELD**9. PHYSICAL AND CHEMICAL PROPERTIES**

Vapor pressure	: <= 23 hPa
Density	: ~ 1 g/cm ³
Solubility	: Soluble in water in any proportion.
Octanol/water partition coefficient	: Not available.
Viscosity	: Kinematic (20°C (68°F)): 0.073 cm ² /s (7.3 cSt)
Vapor density	: Not available.
Evaporation rate	: Not available.
Decomposition temperature	: Not available.
Auto-ignition temperature	: ca 370 °C

10. STABILITY AND REACTIVITY

Conditions to avoid	: Stable under recommended storage and handling conditions (see section 7). When exposed to high temperatures may produce hazardous decomposition products.
Materials to avoid	: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
Hazardous decomposition products	: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

11. TOXICOLOGICAL INFORMATION

There is no data available on the preparation itself. The preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments. See sections 3 and 15 for details.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. If splashed in the eyes, the liquid may cause irritation and reversible damage.

Toxicokinetics

Absorption	: Not available.
Distribution	: Contains material which may cause damage to the following organs: kidneys, upper respiratory tract, skin, eyes.
Metabolism	: Not available.
Elimination	: Not available.

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
glycerol	LD50 Oral	Rat	12600 mg/kg	-

Chronic toxicity : Not available.

Carcinogenicity : Not available.

Mutagenicity : Not available.

Teratogenicity : Not available.

Reproductive toxicity : Not available.

12. ECOLOGICAL INFORMATION

There is no data available on the preparation itself.
Do not allow to enter drains or watercourses.

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is not classified as dangerous for the environment.

Aquatic ecotoxicity

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BLUE SHIELD**12. ECOLOGICAL INFORMATION**

Product/ingredient name	Result	Species	Exposure
glycerol	Acute LC50 54 to 57 ml/L Fresh water	Fish - Oncorhynchus mykiss - 0.9 g	96 hours

Ecological information**Persistence/degradability**

Product/ingredient name	Test	Result	Dose	Inoculum
Not available.				

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Not available.			

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Not available.			

PBT : Not applicable.

vPvB : Not applicable.

13. DISPOSAL CONSIDERATIONS

Do not allow to enter drains or watercourses.

Dispose of according to all federal, state and local applicable regulations.

Methods of disposal : The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

European waste catalogue (EWC) : Not available.

Hazardous waste : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

14. TRANSPORT INFORMATION**International transport regulations**

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

This product is not regulated for carriage according to ADR/RID, IMDG, ICAO/IATA.

15. REGULATORY INFORMATION

Chemical Safety Assessment : This product contains substances for which Chemical Safety Assessments are still required.

EU regulations : The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.
See sections 2 and 3 for details.

VOC content : < 1 %

Europe inventory : All components are listed or exempted.

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15. REGULATORY INFORMATION

Industrial use : The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

16. OTHER INFORMATION

CEPE MSDS Code : 8

The information in this Safety Data Sheet is required pursuant to EU Directive 91/155/EEC and its amendments.

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Version : 2

Indicates information that has changed from previously issued version.

Notice to reader

The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.

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