



1. Identification of the substance / preparation and company

Product name : Papergloss Retarder **Supplier** : Acorn Screen Products Ltd.
Code : A3-92 : Unit 10 Meadow Lane Ind. Est.
Material uses : Screen Printing : Gordon Road
 : Loughborough
 : Leicestershire LE11 1JP
Emergency telephone No. : +44 (0) 1509 610665

2. Composition / information on ingredients

Substance/Preparation: Preparation
 Mixture of substances as listed below with other non hazardous additions.

Chemical name *	CAS no.	%	EINECS no.	Classification
2-(Propyloxy)Ethanol	2807-30-9	90		Xn, R20/21/22,36
2-Butoxyethanol	111-76-2	10	203-905-0	Xn, R,20/21/22,36/38

* Occupational Exposure Limit(s), if available, are listed in Section 8 (See section 16 for full text of R phrases above)

3. Hazards identification

Classification : Flammable

Effects and symptoms: Possibility of irritation to the eyes, respiratory system and to the skin
 May cause lung damage if swallowed

4. First-aid measures

Inhalation : Remove to fresh air, keep warm, if breathing irregular/stopped administer artificial respiration.
 Give nothing by mouth. If unconscious seek medical advice.
Ingestion : If accidentally swallowed obtain medical attention. Do **not** induce vomiting
Skin contact : Remove contaminated clothing. Wash skin with soap and water or use recognised skin cleanser.
 : Do **not** use solvent or thinner.
Eye contact : In case of contact, immediately flush with a copious amounts of water for a least 15 minutes.
 : Get medical attention if irritation occurs.

5. Fire-fighting measures

Extinguishing media
Suitable : Carbon dioxide, Chemical powders, foams, and other extinguishing gases.
Not suitable : Water jet. (Water is not generally recommended since it can be ineffective : However , it can be used successfully to cool containers exposed to the fire.)
Hazardous products : A fire will often produce thick black smoke. Exposure to decomposition products may be hazardous to health. Do not breath in smoke.
Protection of fire fighters : Fire fighters should wear self-contained breathing apparatus.

6. Accidental release measures

Personal protection : Appropriate protective equipment must be worn when handling a spill of this material.
Procedures : Exclude sources of ignition and ventilate the area. Contain and collect spillage with non-combustible absorbent materials, e.g. sand or vermiculite and dispose of according to local authority regulations. Do not allow to enter drains or watercourses. Clean with detergent

MATERIAL SAFETY DATA SHEET A3-92

7. Handling and storage

- Handling** : Vapours are heavier than air and may spread along floors/form explosive mixtures. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits.
- Fire prevention** : Use only in areas without naked lights or other sources of ignition. Comply with COSHH requirements.
- Storage** : Storage: Store between 5 °C and 30 °C in a dry, well ventilated place away from sources of heat, direct sunlight and ignition. Keep away from oxidising agents and from strongly acid materials. Avoid smoking.

8. Exposure controls / Personal protection

: Occupational exposure limits

Ingredient Name	STD	LT EXP (8hrs)	ST EXP (15 mins)
2-(Propyloxy)Ethanol	PEL :	25 ppm	
2-Butoxyethanol	OES:	25 ppm	50 ppm

- Engineering measures** : Ensure adequate ventilation to keep airborne levels below recommended exposure limits. If possible use extractor fans at work posts and appropriate general extraction.

Personal protective equipment

- Eyes** : Wear safety goggles . Provide eye washes in workshops where the product is constantly used.
- Hands** : Chemical-resistant gloves should be worn (e.g. polyvinyl alcohol or nitrile gloves). Protective creams may be used for exposed skin.
- Other protection** : Use chemically resistant apron or other impervious clothing to avoid prolonged or repeated skin contact.

9. Physical and chemical properties

Physical state	: Colourless liquid	Odour	: Mild
Flash point	: 66 °C Closed cup	Solubility	: Insoluble in water
Specific gravity	: 0.912 (Water = 1)	Vapour density	: 4.1 (Air = 1)
Boiling point	: ~190 °C	Vapour pressure	: 0.8
Melting point	: N/A	pH	: N/A

MATERIAL SAFETY DATA SHEET A3-92

10. Stability and reactivity

- Stability** : Stable under recommended storage and handling conditions.
- Conditions to avoid** : When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen. **Avoid sparks and flame.**
- Materials to avoid** : Keep away from oxidising agents, strongly alkaline or acid materials in order to avoid exothermic reactions.

11. Toxicological information

- Inhalation** : High vapour concentrations may cause irritation of the respiratory tract, headaches and dizziness
- Skin contact** : May irritate. Prolonged contact with the preparation may strip the skin of its natural oils and may cause non-allergic dermatitis.
- Eye contact** : Splashes in the eyes may cause irritation.
- Ingestion** : Small amounts aspirated into the respiratory system may cause bronchopneumonia or pulmonary oedema

12. Ecological information

- : No ecological data on this product itself is available.
This product should not be allowed to enter drains or watercourses.

13. Disposal considerations

- Methods of disposal** : Do not pour into drains or waterways.
This product and its containers are classified as Special waste
- Classification ,
European waste catalogue** : 08 00 00 (Waste from the manufacture, formulation, supply and use of coatings (Paints, varnishes and vitreous enamels), adhesive, sealants and printing inks)

14. Transport information

- International transport regulations**
: Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and IATA for air transport.

Regulatory Information	UN Number	Proper Shipping Name	Class	Packing Group	Label	Additional Information
ADR/RID Class	1210	Printing Ink, Flammable	3	III	3	
IMDG Class	1210	Printing Ink, Flammable	3.3	III		
IATA-DGR Class	1210	Printing Ink, Flammable	3	III		

MATERIAL SAFETY DATA SHEET A3-92

15. Regulatory information

Classification and labelling have been done according to EU directives 2001/59/EC and 67/549/EEC.

Danger Classification : Flammable

Contains : -

R Phrases : R10

S Phrases : S24/25 Avoid contact with skin and eyes.

S36/37 Wear suitable protective clothing and gloves.

S29 Do not empty into drains



16. Other information

Full text of R Phrases with number appearing in Section 2:

R10 Flammable

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

R36 Irritating to the eyes.

R36/38 Irritating to eyes and skin

The information contained in this Safety Data sheet is based on the present state of our knowledge and on current EC and national laws. It is meant as a description of the safety requirements of our product, and is not to be considered a guarantee of the products properties