

Material Safety Data Sheet

DP-BLUE POLISHING
FLUID

Date prepared: 12th October 1995

Date revised: 27th June 1998

0CON 318

1. Identification of the Substance/Preparation and the Company/ Undertaking

Substance or preparation trade name: **DP-BLUE POLISHING FLUID**
Unique reference number(s): **0CON 318**
Company/undertaking name & address: **Logitech Ltd.,
Erskine Ferry Road, Old Kilpatrick, Glasgow
G605EU, Scotland, UK**
Telephone: **(+44) 1389 875444**
Emergency telephone number: **As above**

2. Composition

Substance:	Ethanol	Ethylene glycol	2-Isopropanol	Blue dye
% content:	70 - 85	5 - 15	5 - 15	< 0.1
CAS number:	64-17-5	107-21-1	67-63-0	81457-64-9
EC Index number:	R11	R22	R11	None

3. Hazards Identification

***The product is highly flammable, and explosive vapour/air mixtures may be formed even at normal room temperatures. Organic solvents may be absorbed into the body by inhalation and ingestion and affect the nervous system.
The liquid may irritate the skin, the eyes and the respiratory tract.***

4. First Aid Measures

Inhalation: ***Move into fresh air and keep at rest.***

Skin contact: ***Remove contaminated clothes and rinse skin thoroughly with water. Burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call ambulance. Continue flushing during transport to hospital.***

Eye contact: ***Flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists, seek medical attention and bring along these instructions.***

Ingestion: ***Immediately rinse mouth and drink plenty of liquid. Keep person under observation. If uncomfortable: Seek hospital and bring along these instructions.***

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5. Fire-Fighting Measures

Suitable extinguishing media:	<i>Extinguish with foam, carbon dioxide, dry powder, water fog or alcohol-resistant foam. Cool containers exposed to heat with water spray and remove container, if no risk is involved.</i>
Special exposure hazards in fire:	<i>The product is highly flammable, and explosive vapour/air mixtures may be formed even at room temperatures. Vapours are heavier than air and may travel along the floor and in the bottom of containers. Vapours may be ignited by a spark, a hot surface or an ember.</i>
Required special protective equipment for fire-fighters:	<i>None specified.</i>

6. Accidental Release Measures

Personal precautions:	<i>Do not smoke or use open fire or other sources of ignition. Avoid inhalation of vapours and contact with skin and eyes. See also section 8.</i>
Environmental precautions:	<i>Avoid discharge into water courses or on to the ground.</i>
Methods for cleaning:	<i>Large quantities should not be discharged into the drain but removed with absorbing material. Do not use sawdust or other combustible material. For waste disposal see section 13.</i>

7. Handling and Storage

Handling:	<i>Do not smoke or use open fire or other sources of ignition. Avoid inhalation of vapours and contact with skin and eyes. Observe good industrial hygiene practices. See section 8 for personal protection equipment.</i>
Storage:	<i>Store in a cool and well-ventilated place. Store separately from oxidants.</i>

8. Exposure Controls / Personal Protection

Engineering measures: *Provide easy access to a water supply or an emergency shower. Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours.*

Occupational Exposure Limits:

Chemical Name	<u>OSHA</u>		<u>ACGIH</u>	
	TWA (mg/m ³)	STEL (mg/m ³)	TWA (mg/m ³)	STEL (mg/m ³)
Ethanol	1900	-	1880	-
Ethylene glycol	50	125	C 50	C 127
2-Isopropanol	985	1225	983	1230

(C = Ceiling limit)

Personal protective equipment: *Wear protective gloves and, in case of splashes, goggles/face shield too. Nitrile rubber gloves are recommended, but be aware that the product may penetrate the gloves. Frequent change is advisable. In case of inadequate ventilation and work of brief duration, use suitable respiratory equipment with gas filter (class A2).*

9. Physical and Chemical Properties

Appearance: *Clear blue liquid.*

Odour: *Alcoholic.*

pH: *N/A*

Flashpoint (°C): *13°C*

Autoignition temperature: *370 - 425°C*

Explosive limits, vol.-%: *3.2 - 19*

Relative density: *N/A*

Solubility: *Water soluble.*

10. Stability and Reactivity

Stability: *Stable.*

Conditions/materials to avoid: *Avoid exposing containers to high temperatures or direct sunlight.*

Hazardous decomposition products: *By heating and fire, irritating fumes may be formed, incl. carbon monoxide and carbon dioxide.*

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11. Toxicological Information

Inhalation:	<i>Vapours may irritate throat and respiratory system and cause coughing. Vapours have a narcotic effect and may cause headache, fatigue, dizziness and nausea. In serious cases, unconsciousness and damage to the liver may be seen.</i>
Skin contact:	<i>Prolonged contact may cause redness and irritation. Contains propanol, which may penetrate the skin.</i>
Eye contact:	<i>Splashes may irritate.</i>
Ingestion:	<i>May irritate and cause malaise. Ethanol may cause reproductive effects at even small doses.</i>
Chronic effects:	<i>Carcinogenicity: National Toxicology Program: No IARC Monographs: No OSHA: No</i>

12. Ecological Information

Mobility:	<i>Water soluble. Will spread in water systems. The solvents will evaporate easily from all surfaces.</i>
Degradability:	<i>No data available.</i>
Ecotoxicity:	<i>No data available.</i>

13. Disposal Considerations

Safe handling of any residues/waste product:	<i>Dispose of spillages and waste according to agreement with local authorities.</i>
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14. Transport Information

UN number:	1993
Proper shipping name:	Flammable liquid n.o.s. (contains ethanol)

<u>IMDG</u>	<u>ICAO</u>	<u>RID/ADR (DOT)</u>
Class: 3.2	Class: 3	Class: 3
PG: II	PG: II	Pt: 3b
Page: 3230	Pass: 5 I	
EmS: 3-07	Cargo: 60 I	
MFAG No.: 4.2		

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15. Regulatory Information

Supply label information:	Highly flammable (F) (R11) Highly flammable (S7) Keep container tightly closed. (S16) Keep away from sources of ignition - No smoking
Regulations:	1) EEC Directives 67/548/EEC on Dangerous Substances 2) EEC Directives 88/379/EEC on Dangerous Preparations 3) EEC Directives 91/155/EEC on Safety Data Sheets 4) Threshold Limit Values for Chemical Substances in the Work Environment 1993-94, ACGIH 5) OSHA Hazard Communication Standard (29 CFR 1910.1200)

NOTE: THIS DATA SHEET DOES NOT CONSTITUTE A USER'S ASSESSMENT OF WORKPLACE RISK AS REQUIRED BY HSW ACT, COSHH, MANAGEMENT OF HEALTH AND SAFETY AT WORK REGULATIONS, OR OTHER HEALTH AND SAFETY LEGISLATION.

16. Other Information

Recommendations/restrictions:	The user must be instructed in the proper work procedure and be familiar with the contents of these instructions.
Use:	Used during planing, lapping and grinding materials for geological and materialographic preparation.
Sources of key data used to compile Safety Data Sheet:	Croner's Hazard Information and Packaging, 3/95
Abbreviations:	N/E: Not established N/A: Not available

The data contained in this Safety Data Sheet has been supplied as required by the Chemicals (Hazard Identification and Packaging) Regulations 1993, as amended, for the purpose of protecting the health and safety of industrial and commercial users who are deemed capable of understanding and acting on the information provided.

Please ensure that it is passed to the appropriate person(s) in your company, who are capable of acting on the information.