

EU Material Safety Data Sheet

According to 91/155 EC & 93/112 EWG

Printing date 14.02.2001

Reviewed on 29.01.2001

1 Identification of substance:

- **Product details:**
- **Trade name:** IPP-Plus Super Concentrate, IPA Replacement Fountain Solution
Product Code: 38778
- **Manufacturer/Supplier:**
A.B.Dick UK Limited
983 Great West Road
Brentford, Middlesex TW8 9DN
England

Telephone: (44) 020 8326 1200
Fax: (44) 020 8326 1201

2 Composition/Data on components:

- **Chemical characterization**
- **Description:** Mixture of the substances listed below with harmless additions.

- **components:**

111-76-2	2-butoxyethanol	 Xn; 20/21/22-37	25-50%
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3 Hazards identification

- **Hazard designation:**



Xn Harmful

- **Information pertaining to particular dangers for man and environment**

R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R 37 Irritating to respiratory system.

- **Classification system**

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

4 First aid measures

- **General information**
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After inhalation**
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
In case of unconsciousness bring patient into stable side position for transport.
- **After skin contact** Generally the product is not skin irritating.

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- **After eye contact** Rinse opened eye for several minutes under running water.
- **After swallowing** Instantly call for doctor.

5 Fire fighting measures

- **Suitable extinguishing agents** CO₂, Powder or Waterspray
- **Protective equipment:** Put on breathing apparatus.

6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:**
Prevent material from reaching sewage system, holes and cellars.
Dilute with plenty of water.
Do not allow to enter drainage system, surface or ground water.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of contaminated material as waste according to item 13.
Ensure adequate ventilation.

7 Handling and storage

- **Handling**
- **Information for safe handling:**
Keep containers tightly sealed.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:** No special measures required.
- **Storage**
- **Requirements to be met by storerooms and containers:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Storage class**
- **Class according to regulation on inflammable liquids:** Void

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

- **Components with limit values that require monitoring at the workplace:**

111-76-2 2-butoxyethanol (25-50%)

OES	Long-term value: 123 mg/m ³ , 25 ppm
	Sk, Bmgv

- **Additional information:** The lists that were valid during the compilation were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures**
Keep away from foodstuffs, beverages and food.
Take off immediately all contaminated clothing
Wash hands during breaks and at the end of the work.
Avoid contact with the eyes and skin.
- **Breathing equipment:**
In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

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- **Protection of hands:** Protective gloves.
- **Eye protection:** Safety glasses

9 Physical and chemical properties:

- **Form:** Fluid
- **Colour:** According to product specification
- **Odour:** Characteristic

- **Change in condition**
 - Melting point/Melting range:** Not determined
 - Boiling point/Boiling range:** 100°C
 - Setting temperature / range:** Ingredients proportions

- **Flash point:** 65°C
- **Self-inflammability:** Product is not self igniting.
- **Danger of explosion:** Product is not explosive.
- **Critical values for explosion:**
 - Lower:** 1.1 Vol %
 - Upper:** 10.6 Vol %

- **Vapour pressure at 20°C:** 23 hPa

- **Density at 20°C** 1.001 g/cm³

- **Solubility in / Miscibility with Water:** Fully miscible

- **Solvent content:**
 - Organic solvents:** 28.0 %
 - Water:** 60.0 %

- **Solids content:** 12.0 %

10 Stability and reactivity

- **Dangerous reactions** No dangerous reactions known
- **Dangerous products of decomposition:** none

11 Toxicological information

- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

111-76-2 2-butoxyethanol

Oral	LD50	530 mg/kg (rat)
Dermal	LD50	490 mg/kg (rbt)
Inhalative	LC50/4 h	450 mg/l (rat)

- **Primary irritant effect:**
 - **on the skin:** No irritant effect.
 - **on the eye:** No irritant effect.
- **Sensitization:** No sensitizing effect known.

- **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

Harmful

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Irritant

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12 Ecological information:

- **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
 Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

13 Disposal considerations

- **Product:**

- **Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Hand over to disposers of hazardous waste.

- **Uncleaned packagings:**

- **Recommendation:** Disposal must be made according to official regulations.

- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

14 Transport information

- **Land transport ADR/RID (cross-border)**

- **ADR/RID-GGVS/E Class:** -

- **Maritime transport IMDG:**

- **IMDG Class:** -

- **Marine pollutant:** No

- **Air transport ICAO-TI and IATA-DGR:**

- **ICAO/IATA Class:** -

15 Regulatory information

- **Designation according to EC guidelines:**

The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)

- **Code letter and hazard designation of product:**



Xn Harmful

- **Hazard-determining components of labelling:** 2-butoxyethanol

- **Risk phrases:**

20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

37 Irritating to respiratory system.

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GB

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- **Safety phrases:**

- 2 Keep out of the reach of children.
- 9 Keep container in a well-ventilated place.
- 13 Keep away from food, drink and animal feedingstuffs.
- 23 Do not breathe gas/fumes/vapour/spray.
- 25 Avoid contact with eyes.
- 36/37 Wear suitable protective clothing and gloves.
- 46 If swallowed, seek medical advice immediately and show this container or label.
- 51 Use only in well-ventilated areas.
- 52 Not recommended for interior use on large surface areas.
- 56 Dispose of this material and its container at hazardous or special waste collection point

- **National regulations**

- **Classification according to VbF:** Void

- **Technical instructions (air):**

Class	Share in %
Wasser	50-100
II	25-50

- **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

16 Other information:

Information is based on our current knowledge but does not establish a promise of product characteristics and does not substantiate any contractual legal relationship. Drawing of back-up data file for:

e-lab analysis

Laboratory Engel

state-authorised institute for industry and environmental analysis

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