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This Datasheet is presented by  
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Dieses Datenblatt wird vom  
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Cette fiche technique est  
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## SAFETY DATA SHEET

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 453/2010

### 1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

<b>1.1 Product identifier</b>	
Product Name	Nobo Liquid Ink Drymarkers.
Trade name	Liquid Ink Dry Wipe Markers.
Product Code	1901072, 1901073, 1901074, 1901075, 1901076, 1901077, 1901419.
CAS No.	Not applicable.
EINECS No.	Not applicable.
REACH Registration No.	None assigned.
<b>1.2 Relevant identified uses of the substance or mixture and uses advised against</b>	
Identified use(s)	Use on drywipe boards, flipchart pads and OHP film.
Uses advised against	None known.
<b>1.3 Details of the supplier of the Safety Data Sheet</b>	
Company Identification	Acco UK Ltd. Oxford House, Oxford Road, Aylesbury, Bucks, HP21 8SZ.
Telephone	+44 (0) 844 209 8360 (9am to 5pm).
Fax	+44 (0) 845 603 1731.
Website	www.acco.co.uk
E-mail	informationeurope@acco.com
<b>1.4 Emergency telephone number</b>	
Emergency Phone No.	0844 2098360.

### 2. SECTION 2: HAZARDS IDENTIFICATION

<b>2.1 Classification of the substance or mixture</b>	
Directive 67/548/EEC & Directive 1999/45/EC	Not classified as dangerous for supply/use.
<b>2.2 Label elements</b>	
Product Name	According to Directive 67/548/EEC & Directive 1999/45/EC Nobo Liquid Ink Drymarkers.
Hazard Symbol	None.
Risk Phrases	None.
Safety Phrases	None.
<b>2.3 Other hazards</b>	
	Sharp points may cause injury. Confined spaces: The vapour has anaesthetic properties and when inhaled at high concentrations, it may cause headache, fatigue, dizziness and incoordination.
<b>2.4 Additional Information</b>	
	None.

### 3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Articles for printing and writing: Nobo Liquid Ink Drymarkers.

#### 3.1 Mixtures

EC Classification No. 67/548/EEC

Hazardous ingredient(s)	%W/W	CAS No.	EC No.	REACH Registration No.	EC Classification and Risk Phrases
Ethanol	40 - 50	64-17-5	200-578-6	None assigned.	F; R11.
Propan-2-ol	20 - 30	67-63-0	200-661-7	None assigned.	F; R11, Xi; R36, R67.
Polyvinyl Butyral	10 - 20	63148-65-2	None	None assigned.	Xi; R36, R37, R38.
Additive	10 - 20	None	None	None assigned.	None.

#### 3.2 Additional Information

For full text of R phrases see section 16.

### 4. SECTION 4: FIRST AID MEASURES



#### 4.1 Description of first aid measures

Inhalation

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

Skin Contact

Wash hands and exposed skin after use.

Eye Contact

If contact with eyes directly, flush with gently flowing fresh water thoroughly.

Ingestion

Unlikely route of exposure.

#### 4.2 Most important symptoms and effects, both acute and delayed

Unlikely to be required but if necessary treat symptomatically.

#### 4.3 Indication of any immediate medical attention and special treatment needed

No special requirements.

### 5. SECTION 5: FIRE-FIGHTING MEASURES

#### 5.1 Extinguishing Media

Suitable Extinguishing Media

As appropriate for surrounding fire.

Unsuitable Extinguishing Media

None known.

#### 5.2 Special hazards arising from the substance or mixture

No information available.

#### 5.3 Advice for fire-fighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

### 6. SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

Marker may stain. Wear suitable protective clothing and gloves. Wash hands and exposed skin after use.

#### 6.2 Environmental precautions

Not normally required.

#### 6.3 Methods and material for containment and cleaning up

Collect mechanically and dispose of according to Section 13.

#### 6.4 Reference to other sections

See Also Section 8.

**7. SECTION 7: HANDLING AND STORAGE**





- 7.1 Precautions for safe handling** Keep away from children under 3 years old. Do not use in confined spaces. Avoid inhalation of high concentrations of vapours. Wash hands and exposed skin after use.
- 7.2 Conditions for safe storage, including any incompatibilities**
  - Storage Temperature Ambient.
  - Storage Life Indefinite.
  - Incompatible materials No information available.
- 7.3 Specific end use(s)** Use on drywipe boards, flipchart pads and OHP film.

**8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

- 8.1 Control parameters**
- 8.1.1 Occupational Exposure Limits**

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note:
Ethanol	64-17-5	1000	1920	-	-	WEL
Propan-2-ol	67-63-0	400	999	500	1250	WEL

WEL: Workplace Exposure Limit (UK HSE EH40)

- 8.1.2 Biological limit value** None assigned.
- 8.1.3 PNECs and DNELs** None assigned.
- 8.2 Exposure controls**
- 8.2.1 Appropriate engineering controls** Not normally required.
- 8.2.2 Personal protection equipment**
  - Eye/face protection  Not normally required.
  - Skin protection (Hand protection/ Other)  Not normally required. Marker may stain. Wear suitable protective clothing and gloves.
  - Respiratory protection  Normally no personal respiratory protection is necessary.
  - Thermal hazards  Not applicable.
- 8.2.3 Environmental Exposure Controls** Not normally required.

## 9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>9.1</b>	<b>Information on basic physical and chemical properties</b>	
	Appearance	Solid.
	Colour	Varied.
	Odour	Characteristic.
	Odour Threshold (ppm)	Not established.
	pH (Value)	Not applicable.
	Boiling Point (°C)	78°C (Mixture).
	Flash Point (°C)	13°C (Mixture).
	Flammability (solid, gas)	Non-flammable.
	Solubility (Water)	Insoluble.
	Solubility (Other)	Insoluble.
	Viscosity (mPa.s)	5 – 11mPa•s (Mixture).
	Explosive properties	Not explosive.
	Oxidising properties	Not oxidising.
<b>9.2</b>	<b>Other information</b>	None.

## 10. SECTION 10: STABILITY AND REACTIVITY

<b>10.1</b>	<b>Reactivity</b>	Stable under normal conditions.
<b>10.2</b>	<b>Chemical stability</b>	Stable under normal conditions.
<b>10.3</b>	<b>Possibility of hazardous reactions</b>	Stable under normal conditions.
<b>10.4</b>	<b>Conditions to avoid</b>	None known.
<b>10.5</b>	<b>Incompatible materials</b>	No information available.
<b>10.6</b>	<b>Hazardous Decomposition Product(s)</b>	Oxides of carbon.

## 11. SECTION 11: TOXICOLOGICAL INFORMATION

This material is unlikely to present a significant health hazard under normal conditions of handling and use.

<b>11.1</b>	<b>Information on toxicological effects</b>	
<b>11.1.1</b>	<b>Article</b>	
	<b>Acute toxicity</b>	Low acute toxicity.
	<b>Irritation</b>	Unlikely to cause skin irritation. Unlikely to cause eye irritation.
	<b>Corrosivity</b>	None anticipated.
	<b>Sensitisation</b>	It is not a skin sensitiser.
	<b>Repeated dose toxicity</b>	None anticipated. Confined spaces: The vapour has anaesthetic properties and when inhaled at high concentrations, it may cause headache, fatigue, dizziness and incoordination.
	<b>Carcinogenicity</b>	No evidence of carcinogenicity.
	<b>Mutagenicity</b>	There is no evidence of mutagenic potential.
	<b>Toxicity for reproduction</b>	Product as supplied: None anticipated.
		Ethanol: Ingestion of large quantities may have adverse effects on the male reproductive system. Developmental effects have been observed in laboratory animals following large oral exposures.

## 12. SECTION 12: ECOLOGICAL INFORMATION

12.1	<b>Toxicity</b>	Low toxicity to aquatic organisms.
12.2	<b>Persistence and degradability</b>	The product is unlikely to persist in the environment.
12.3	<b>Bioaccumulative potential</b>	The product has low potential for bioaccumulation.
12.4	<b>Mobility in soil</b>	Article: The product is essentially insoluble in water. Ethanol and Propan-2-ol: Soluble in water. The substance is predicted to have high mobility in soil.
12.5	<b>Results of PBT and vPvB assessment</b>	Not classified as PBT or vPvB.
12.6	<b>Other adverse effects</b>	None anticipated.

## 13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1	<b>Waste treatment methods</b>	Dispose at suitable refuse site.
13.2	<b>Additional Information</b>	None.

## 14. SECTION 14: TRANSPORT INFORMATION

14.1	<b>UN number</b>	UN 1993.
14.2	<b>UN Proper Shipping Name</b>	Flammable Liquid, N.O.S.
14.3	<b>Transport hazard class(es)</b>	3.
14.4	<b>Packing Group</b>	II.
14.5	<b>Environmental hazards</b>	Not classified as a Marine Pollutant.
14.6	<b>Special precautions for user</b>	Hazard Identification Number: 33. IMDG EMS: F-E-S-E.
14.7	<b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	No information available.
14.8	<b>Additional Information</b>	
	Packing Instruction (Cargo)	307. Maximum quantity: 60L.
	Packing Instruction (Passenger)	305. Maximum quantity: 5L.

## 15. SECTION 15: REGULATORY INFORMATION

15.1	<b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	
15.1.1	<b>EU regulations</b>	
	Authorisations and/or restrictions on use	None known.
15.1.2	<b>National regulations</b>	None known.
15.2	<b>Chemical Safety Assessment</b>	Not available.

## 16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

### LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
PBT	PBT: Persistent, Bioaccumulative and Toxic
vPvB	vPvB: very Persistent and very Bioaccumulative
F	Highly flammable.
Xi	Irritant.

# Nobo Liquid Ink Drymarkers



## Risk Phrases

R11	Highly flammable.
R36	Irritating to eyes.
R67	Vapours may cause drowsiness and dizziness.

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## Annex to the extended Safety Data Sheet (eSDS)

No information available.



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