

# MATERIAL SAFETY DATA SHEET

## VELLEDA DRY ERASE INK US1751

Page : 1

Version : 1

Date : 6/12/2006

Supersedes : 0/0/0

**BIC**

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : VELLEDA DRY ERASE INK US1751  
Recommended uses : Ink  
SUPPLIER :  
Name : SOCIETE BIC  
Address : 14, Rue Jeanne d'Asnières  
92611 CLICHY Cédex  
FRANCE  
Telephone number : + 33 01 45 19 52 00  
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### 2. COMPOSITION / INFORMATION ON INGREDIENTS

PREPARATION :

Chemical nature : Product based on : Ethanol &amp; Propan-1-ol

Hazardous constituents :

Substance name	Contents	CAS No / EC No / Index No	Symbol(s)	R-Phrase(s)
Propan-1-ol	: < 80 %	71-23-8 / 200-746-9 / 603-003-00-0	F Xi	11-41-67
Ethanol	: < 80 %	64-17-5 / 200-578-6 / 603-002-00-5	F	11

### 3. HAZARDS IDENTIFICATION

MOST IMPORTANT HAZARDS :

Adverse human health effects : Risk of serious damage to eyes.  
Vapours may cause drowsiness and dizziness.

Environmental effects : Presents no particular risk to the environment, provided the disposal requirements ( see section 13) and national or local regulations are complied with

Physical and chemical hazards :  
- Fire or explosion : Highly flammable liquid  
May form flammable/explosive vapour-air mixtures

Classification of the product : According to European regulations, this product is classified as :  
- HIGHLY FLAMMABLE  
- IRRITANT

### 4. FIRST AID MEASURES

Inhalation : Move the affected person away from the contaminated area and into the fresh air  
If irritation persists, consult a doctor

Skin contact : Wash with soap and water  
In case of redness or irritation, consult a doctor

Eye contact : Rinse immediately and thoroughly with plenty of water whilst keeping the eyes wide open (at least 15 minutes)  
Consult an eye specialist immediately, even if there are no immediate symptoms

Ingestion : Give water to drink  
Consult a doctor

### 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Alcohol-resistant foam  
Powders  
Carbon dioxide (CO<sub>2</sub>)

Specific hazards : Can form explosive mixtures with air  
The vapours are denser than air and may travel along the ground. Distance ignition possible.  
On heating or during combustion :

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### 5. FIRE-FIGHTING MEASURES (continued)

Specific fire fighting methods : Toxic vapors may be released  
Clear the danger area  
Cool down the containers/equipment exposed to heat with a water spray  
Contain the extinguishing fluids by bunding  
Do not attempt to fight the fire without suitable protective equipment

Protection of fire-fighters : Self-contained breathing apparatus  
Standard protection

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Avoid contact with skin and eyes  
Do not breathe vapours  
No flames, no sparks. Eliminate all sources of ignition.  
Do not smoke  
Protective equipment :  
- full protective clothing and equipment  
- respiratory protective device  
In case of important spillage :  
Mark out the contaminated area with signs and prevent access to unauthorized personnel  
Stop the leak as quickly as possible (using non-sparking tools)  
Prevent the product from entering drains (risk of explosion)  
Ventilate spillage area

Environmental precautions : Contain the spilled material by bunding  
Do not discharge into drains and rivers

Methods for cleaning up :  
- Neutralization : Absorb spillage with:  
- inert absorbent material  
- earth or sand

- Disposal : Dispose of contaminated materials in accordance with current regulations

### 7. HANDLING AND STORAGE

#### HANDLING

Technical measures : Vapour extraction at source  
Use NON-sparking tools

Precautions : Avoid contact with skin and eyes  
Avoid the build-up of electrostatic charge  
Smoking is forbidden  
Do not overheat the product.

#### STORAGE

Technical measures : The floor of the depot must be impermeable, non-combustible and designed to form a basin, in order that stored flammable liquids should not, under any circumstances, be released outside

#### Storage conditions :

- Recommended : Store :  
- in a cool and dry area  
- in a well-ventilated area  
- the container tightly closed  
- away from any source of ignition  
- away from heat.

Incompatible materials : Flammable or combustible materials  
Strong oxidizing agents  
Strong reducing agents.  
Alkali metals  
Alkaline earth metals  
Aluminium  
Halogens

Packaging materials :

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### 7. HANDLING AND STORAGE

(continued)

- Recommended : Original packaging

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures : Ensure good ventilation of the work station  
Extraction to remove vapours at their source

Occupational exposure limits :

- France : Ethanol :  
VME : 1900 mg/m<sup>3</sup> (1000 ppm)  
VLE : 9500 mg/m<sup>3</sup> (5000 ppm)  
Propan-1-ol :  
VME : 500 mg/m<sup>3</sup> (200 ppm)

Personal protective equipment :

- Respiratory protection : If vapour is released:  
Aerosol filter type A

- Hand protection : Butyl-rubber protective gloves  
( Breakthrough time (min) : > 480)

- Eye protection : Safety spectacles

Hygiene measures : Do not drink, eat or smoke in the workplace  
Always wash your hands after handling the product

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : Liquid

Colour : variable

Odour : alcohol.

Specific temperatures :

- Boiling : 78 °C (760 mmHg)

Flammability characteristics :

- Flash point : 13 °C (Closed cup)

Vapour pressure : 14.5 mmHg (20 °C)

Specific gravity : 0.82 - 0.88 g/cm<sup>3</sup> (20 °C)

Solubility :

- in water : Soluble

Evaporation rate : 11 (diethyl oxide = 1).

### 10. STABILITY AND REACTIVITY

Stability : Stable at ambient temperature and under normal conditions of use

Hazardous reactions :

- Conditions to avoid : Heat, sparks, open flames, ignition source

- Materials to avoid :  
- flammable or combustible materials  
- strong oxidizing agents  
- strong reducing agents  
- alkali metals  
- alkaline earth metals.  
- aluminium  
- halogens (F, Cl, Br, I)

- Hazardous decomposition products : On combustion or on thermal decomposition (pyrolysis) releases :  
Carbon oxides (CO, CO<sub>2</sub>)

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### 11. TOXICOLOGICAL INFORMATION

Acute toxicity : Vapours may cause drowsiness and dizziness  
Ethanol :  
LC 50 inhalation / 4h (rat) : 95.6 mg/l  
LD 50 oral (rat) : 6200 mg/kg  
Propan-1-ol :  
LC 50 inhalation / 4h (rat) : > 34 mg/l  
LD 50 oral (rat) : 1870 mg/kg  
LD 50 skin (Rabbit) : 4000 mg/kg  
(published data)

Acute symptoms : Ethanol :  
On ingestion : Nausea , Vomiting , Drunkenness

Local effects : Severely irritating to the eyes  
Risk of serious damage to eyes

### 12. ECOLOGICAL INFORMATION

DEGRADABILITY : Ethanol : 94 % (OECD 301)  
Propan-1-ol : 75 % (20 days )  
Easy biodegradable

BIOACCUMULATION :  
Octanol/water partition coefficient : Ethanol : -0.31 (log POW)  
Propan-1-ol : 0.25 (log POW)  
(published data)  
Not potentially bioaccumulable

ECOTOXICITY :  
Effects on the aquatic environment : No information available, however this product is not considered to present any particular risk for the aquatic environment.  
Ethanol :  
EC 50 (Daphnia : Daphnia magna) / 48h : 9268 mg/l  
LC 50 (Fish : Leuciscus idus) / 48 h : 8140 mg/l  
LC 50 (Fish : Leuciscus idus) / 96 h : 0.022 mg/l  
Propan-1-ol :  
LC 50 (Fish : Pimephales promelas) / 96 h : 4480 mg/l  
EC 50 (Daphnia : Daphnia magna) / 48h : 3642 mg/l  
(published data)

### 13. DISPOSAL CONSIDERATIONS

WASTE FROM PRODUCT :  
Destruction/Disposal : Dispose of in accordance with relevant local regulations

CONTAMINATED PACKAGING :  
Destruction/disposal : Destroy at an authorised site

NOTE : The user's attention is drawn to the possible existence of specific european, national or local regulations regarding disposal

### 14. TRANSPORT INFORMATION

INTERNATIONAL REGULATIONS :  
- UN No. 1210  
Land transportation :  
- Rail/road (RID/ADR) : Class : 3  
Classification code : F1  
Packing group : II  
Hazard identification number : 33  
Labelling : 3  
Description : PRINTING INK

Sea (IMO/IMDG) : Class : 3  
Packing group : II

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### 14. TRANSPORT INFORMATION

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Emergency schedule (EmS) : F-E, S-D  
Description : PRINTING INK  
Labelling : 3

Air (ICAO-IATA) : Class : 3  
Packing group : II  
Labelling : Flammable liquid  
Description : PRINTING INK  
Passenger aircraft :  
Packing instruction : 305  
Quantity : 5 L  
Cargo aircraft :  
Packing instruction : 307  
Quantity : 60 L

NOTE : The above regulatory prescriptions are those valid on the date of publication of this sheet  
Given the possible evolution of transport regulations for hazardous materials, in case the present sheet is dating back to more than 12 months ago, it would be advisable to check their validity with your commercial agency

### 15. REGULATORY INFORMATION

EC LABELLING :

- Symbols and indications of danger :



- R phrases : R11 : Highly flammable.  
R41 : Risk of serious damage to eyes.  
R67 : Vapours may cause drowsiness and dizziness.

- S phrases : S2 : Keep out of the reach of children.  
S16 : Keep away from sources of ignition - No smoking.  
S23 : Do not breathe vapour.  
S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S39 : Wear eye/face protection.  
S46 : If swallowed seek medical advice immediately and show this container or label.

The regulatory information given above only indicate the principal regulations specifically applicable to the product described in the MSDS The user's attention is drawn to the possible existence of additional provisions which complete these regulations Refer to all applicable international, national and local regulations or provisions

### 16. OTHER INFORMATION

Restrictions on use : This product must not be used for other applications that mentioned in §1.

R phrases text of §2 & 3 : R11 : Highly flammable.  
R41 : Risk of serious damage to eyes.  
R67 : Vapours may cause drowsiness and dizziness.

Bibliography references : European Chemicals Bureau (ECB)  
INRS (Institut National de Recherche et de Sécurité)  
IUCLID (International Uniform Chemical Information Data Base)  
RTECS (Registry of Toxic effects of Chemical Substances)  
MSDS of suppliers

Safety data sheet established by : LISAM SERVICES - TELEGIS  
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www.telegis.com

This sheet complements the technical sheets but does not replace them. The information given is based on our knowledge of the

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product, at the time of publication. It is given in good faith.

Besides, the attention of the user is drawn to the possible risk incurred by using the product for any other use than that for which it was intended.

In no way does this exempt the user from knowing and applying all the regulations controlling his activity. He alone will take on the responsibility for taking the precautions involved by the use of the product.

The aim of all the mandatory regulations mentioned is just to help the user to fulfil his obligations regarding the use of hazardous products.

This information must not be considered exhaustive. It does not exempt the user from ensuring that other obligations than those mentioned could apply, related to the storage and use of the product, this being his sole responsibility.

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