

MATERIAL SAFETY DATA SHEET

VELLEDA DRY ERASE INK US1751

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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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EMERGENCY TELEPHONE NUMBER : ORFILA (France) : +33 01 45 42 59 59

2. COMPOSITION / INFORMATION ON INGREDIENTS

PREPARATION :

Chemical nature : Product based on : Ethanol & 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 (CO₂)

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 :	<p>Toxic vapors may be released</p> <p>Clear the danger area</p> <p>Cool down the containers/equipment exposed to heat with a water spray</p> <p>Contain the extinguishing fluids by bunding</p> <p>Do not attempt to fight the fire without suitable protective equipment</p>
Protection of fire-fighters :	<p>Self-contained breathing apparatus</p> <p>Standard protection</p>

6. ACCIDENTAL RELEASE MEASURES

Personal precautions :	<p>Avoid contact with skin and eyes</p> <p>Do not breathe vapours</p> <p>No flames, no sparks. Eliminate all sources of ignition.</p> <p>Do not smoke</p> <p>Protective equipment :</p> <ul style="list-style-type: none"> - full protective clothing and equipment - respiratory protective device <p>In case of important spillage :</p> <p>Mark out the contaminated area with signs and prevent access to unauthorized personnel</p> <p>Stop the leak as quickly as possible (using non-sparking tools)</p> <p>Prevent the product from entering drains (risk of explosion)</p> <p>Ventilate spillage area</p>
Environmental precautions :	<p>Contain the spilled material by bunding</p> <p>Do not discharge into drains and rivers</p>
Methods for cleaning up :	
- Neutralization :	<p>Absorb spillage with:</p> <ul style="list-style-type: none"> - inert absorbent material - earth or sand
- Disposal :	<p>Dispose of contaminated materials in accordance with current regulations</p>

7. HANDLING AND STORAGE

HANDLING

Technical measures :	<p>Vapour extraction at source</p> <p>Use NON-sparking tools</p>
Precautions :	<p>Avoid contact with skin and eyes</p> <p>Avoid the build-up of electrostatic charge</p> <p>Smoking is forbidden</p> <p>Do not overheat the product.</p>

STORAGE

Technical measures :	<p>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</p>
Storage conditions :	
- Recommended :	<p>Store :</p> <ul style="list-style-type: none"> - 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 :	<p>Flammable or combustible materials</p> <p>Strong oxidizing agents</p> <p>Strong reducing agents.</p> <p>Alkali metals</p> <p>Alkaline earth metals</p> <p>Aluminium</p> <p>Halogens</p>
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/m³ (1000 ppm)
VLE : 9500 mg/m³ (5000 ppm)
Propan-1-ol :
VME : 500 mg/m³ (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/cm³ (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, CO₂)