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VELLEDA DRY ERASE INK 1751	Date : 28/7/2010
	Supersedes : 20/12/2006
	BIC

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : VELLEDA DRY ERASE INK 1751
 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
 Telefax number : +33 01 45 19 52 99
 * E-mail : Bic.Contact@bicworld.com
 EMERGENCY TELEPHONE NUMBER : ORFILA (France) : +33 01 45 42 59 59

2. HAZARDS IDENTIFICATION

MOST IMPORTANT HAZARDS :
 Adverse human health effects : Risk of serious damage to eyes.
 Environmental effects : Presents no particular risk to the environment, provided the recommendations concerning disposal (see section 13) and any applicable 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

3. COMPOSITION / INFORMATION ON INGREDIENTS

MIXTURE :
 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)
<u>Ethanol</u>	: < 80 %	64-17-5 / 200-578-6 / 603-002-00-5	F	11
<u>Propan-1-ol</u>	: < 15 %	71-23-8 / 200-746-9 / 603-003-00-0	F Xi	11-41-67

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

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5. FIRE-FIGHTING MEASURES

Suitable extinguishing media :	Alcohol-resistant foam Powders Carbon dioxide (CO ₂)
Specific hazards :	Can form explosive mixtures with air The vapours are heavier than air and may travel along the ground. Distance ignition possible. On heating or during combustion : Toxic vapors may be released
Specific fire fighting methods :	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

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7. HANDLING AND STORAGE (continued)

Incompatible materials :
 - away from any source of ignition
 - away from heat
 Flammable or combustible materials
 Strong oxidizing agents
 Strong reducing agents
 Alkali metals
 Alkaline earth metals
 Aluminium
 Halogens

Packaging materials :
 - 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 goggles

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

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10. STABILITY AND REACTIVITY (continued)

- 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)
Nitrogen oxides
Various hydrocarbon fragments

11. TOXICOLOGICAL INFORMATION

- Acute toxicity : 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

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14. TRANSPORT INFORMATION

INTERNATIONAL REGULATIONS :

* - UN No. 1210 PRINTING INK, flammable (Ethanol & Propan-1-ol)

Land transportation :

- Rail/road (RID/ADR) :
 Class : 3
 Classification code : F1
 Packing group : II
 Hazard identification number : 33
 Labelling : 3

Sea (IMO/IMDG) :

Class : 3
 Packing group : II
 Emergency schedule (EmS) : F-E, S-D
 Labelling : 3

Air (ICAO-IATA) :

Class : 3
 Packing group : II
 Labelling : Flammable liquid
 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 date of issue is older than 12 months, compared to the current one, it would be advisable to check their validity with your commercial agency

15. REGULATORY INFORMATION

EC LABELLING :

- Symbols and indications of danger :



- HIGHLY FLAMMABLE (F)
 - IRRITANT (Xi)

- R phrases :

R11 : Highly flammable.
 R41 : Risk of serious damage to eyes.

- S phrases :

S2 : Keep out of the reach of children.
 S16 : Keep away from sources of ignition - No smoking.
 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

R phrases text of § 3 :

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

Restrictions on use :

This product must not be used for other applications that mentioned in §1.

SOCIETE BIC

14, Rue Jeanne d'Asnières 92611 CLICHY FRANCE

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16. OTHER INFORMATION	(continued)
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Bibliography references :	Joint Research Centre (JRC) 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
* Update :	This sheet was updated (refer to the date at the top of this page) Texts which have been modified since the previous version are marked with an asterisk (*)
Safety data sheet established by :	LISAM SERVICES - TELEGIS 6 rue des Boucheries F-60400 NOYON www.reachelp.com Safety Made Easy with www.lisam.com

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