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Ink 1721 for BIC VELLEDA DRY ERASE MARKER		BIC

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

- 1.1. **Product identifier** : Ink 1721 for BIC VELLEDA DRY ERASE MARKER
- 1.2. **Relevant identified uses of the substance or mixture and uses advised against** : Ink for dry erasable marker
- 1.3. **Details of the supplier of the safety data sheet**
- 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
- 1.4. **Emergency telephone number** : ORFILA (France) : +33 1 45 42 59 59

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

MOST IMPORTANT HAZARDS

Adverse human health effects

Environmental effects

: Risk of serious damage to eyes.

: 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

Classification of the product

: According to European regulations (67/548/EEC & 1999/45/EC), this product is classified as :
F; R11
Xi; R41

Further information :

: In a usual writing situation, quantities of ink layed down by the pen are normally too small to occasion significant exposure and cause adverse effects on the user's health

2.2. Label elements

EC LABELLING :

: Regulatory provisions on labeling don't apply to the marker. Only ink in cans is concerned

- Symbols and indications of danger



: - HIGHLY FLAMMABLE (F) - IRRITANT (Xi)

- R phrases

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

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2. HAZARDS IDENTIFICATION (continued)

- 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.
S29 : Do not empty into drains.
S39 : Wear eye/face protection.
- Further data : : Reduced labelling allowed for small packaging
- 2.3. Other hazards : None, to our knowledge

3. COMPOSITION / INFORMATION ON INGREDIENTS

MIXTURE

Chemical nature : Mixture of resin in solution in solvents and dyes

Hazardous constituents

Substance name	Contents	CAS No	EC No	Index No	Classification
Ethanol	: 70 - 75 %	64-17-5	200-578-6	603-002-00-5	---- F; R11 ----- Flam. Liq. 2 H225
Propan-1-ol	: < 15 %	71-23-8	200-746-9	603-003-00-0	---- F; R11 R67 Xi; R41 ----- Flam. Liq. 2 H225 Eye Dam 1 H318 STOT SE 3 H336
Depending on the colours :	:	----	----	----	-----
Pigment yellow	: < 2 %	142948-20-7	----	----	---- Xn; R22 Xi; R41 N; R51-53 ----- Eye Dam 1 H318 Acute Tox. 4 (oral) H302 Aquatic Chronic 2 H411

Further information : Full text of R and H phrases : see section 16

4. FIRST AID MEASURES

4.1. Description of first aid measures

- Inhalation** : Move the affected person away from the contaminated area and into the fresh air
If the person feels unwell : Call a doctor
- Skin contact** : Remove all contaminated clothing and footwear
Wash immediately with plenty of 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** : Never attempt to induce vomiting
Call a doctor immediately

4.2. Most important symptoms and effects, both acute and delayed : In case of contact with eyes :
Serious eye damage

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4. FIRST AID MEASURES (continued)
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4.3. Indication of any immediate medical attention and special treatment needed : No information available

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media : Water
Carbon dioxide (CO₂)
Alcohol-resistant foam
Powders

5.2. Special hazards arising from the substance or mixture : Highly flammable liquid
May form flammable/explosive vapour-air mixtures

5.3. Advice for fire-fighters : 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 :
Complete protective clothing
Self-contained breathing apparatus

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures : For non-emergency personnel :
Avoid contact with skin and eyes
Do not breathe vapours
Do not smoke
No flames, no sparks. Eliminate all sources of ignition.
For emergency responders :
Do not attempt to fight the fire without suitable protective equipment
For further information see section 8
In case of important spillage :
Mark out the contaminated area with signs and prevent access to unauthorized personnel
Prevent the product from entering drains (risk of explosion)
Ventilate spillage area

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

6.3. Methods and material for containment and cleaning up

- **Recovery** : Recover the product by mechanical means.
- **Neutralization :** : Absorb non-recoverable liquid with:
 - inert absorbent material
 - earth or sand
- **Cleaning/decontamination** : Wash contaminated area with large amounts of water
- **Disposal** : Dispose of contaminated materials in accordance with current regulations

6.4 Reference to other sections : For further information see section 13

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7. HANDLING AND STORAGE

7.1. Precautions for safe 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
- Hygiene measures** : Do not drink, eat or smoke in the workplace
Always wash your hands after handling the product

7.2. Conditions for safe storage, including any incompatibilities

- 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
- away from any flames

- Incompatible materials** : Flammable or combustible materials
Oxidizing materials
Reducing materials
Acids
Alkali metals
Alkaline earth metals

Packaging materials

- Recommended** : Original packaging
- Not suitable :** : Certain plastic materials
Rubbers

- 7.3. Specific end use(s)** : Not applicable

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

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)

8.2. Exposure controls

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

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION (continued)

Personal protective equipment :

- **Respiratory protection** : In the event of insufficient ventilation :
Self-contained breathing apparatus
- **Hand protection** : Protective rubber gloves, resistant to solvents
The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resultant standard EN 374
Breakthrough time : refer to the recommendations of the supplier
- **Eye protection** : Long face shield
- Collective emergency equipments** : Eye fountain

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

- Physical state** : Liquid
- Colour** : variable
- Odour** : alcohol
- Olfactory limit** : Not determined
- pH** : Not determined
- Specific temperatures**
- **Boiling** : 78 °C (760 mmHg)
- **Melting point** : Not determined
- Decomposition temperature** : Not determined
- Flammability characteristics**
- **Flash point** : 13 °C (Closed cup)
- **Auto-ignition temperature** : Not determined
- Oxidizing properties** : Non oxidizing material according to EC criteria
- Explosive limits in air** : Not determined
- Vapour pressure** : 14.5 mmHg (20 °C)
- Vapour density (air = 1)** : Not determined
- Relative density (water = 1)** : 0.82 - 0.88
- Solubility**
- **in water** : Soluble
- Octanol/water partition coefficient** : Not determined
- Kinematic viscosity** : Not determined
- Evaporation rate** : 11 (diethyl oxide = 1).
- 9.2 Further information** : No information available

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10. STABILITY AND REACTIVITY

- 10.1. Reactivity** : Highly flammable liquid
- 10.2. Chemical stability** : Stable at ambient temperature and under normal conditions of use
- 10.3. Possibility of hazardous reactions** : The vapours are heavier than air and may travel along the ground. Distance ignition possible.
- 10.4. Conditions to avoid** : Heat, sparks, open flames, ignition source
- 10.5. Incompatible materials** : - strong oxidizing agents
- strong reducing agents
- acids
- alkali metals
- alkaline earth metals.
- 10.6. Hazardous decomposition products** : On combustion or on thermal decomposition (pyrolysis) releases :
Carbon oxides (CO, CO₂)
Various hydrocarbon fragments

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

- 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 :** : In case of contact with eyes :
Risk of serious damage to eyes
Ethanol :
On ingestion : Nausea , Vomiting , Drunkenness
- Local effects** : Severely irritating to the eyes
Risk of serious damage to eyes
- Respiratory or skin sensitization** : Based on available data, the classification criteria are not met.
- Carcinogenicity** : Based on available data, the classification criteria are not met.
- Mutagenicity** : Based on available data, the classification criteria are not met.
- Reproductive toxicity** : Based on available data, the classification criteria are not met.
- Further information :** : Above information is for the ink. The ink will be contained in the fibrous reservoir of a small capacity marker which will limit considerably the exposure possibilities for the user

12. ECOLOGICAL INFORMATION

- 12.1. Toxicity** : 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

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12. ECOLOGICAL INFORMATION	(continued)
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- LC 50 (Fish : Leuciscus idus) / 48 h : 8140 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)
- 12.2. Persistence and degradability** : Ethanol : 94 % (OECD 301)
Propan-1-ol : 75 % (20 days)
Easy biodegradable
- 12.3. Bioaccumulative potential** : Ethanol : log Pow = -0.32
Propan-1-ol : log Pow = 0.25
(published data)
Not potentially bioaccumulable
- 12.4. Mobility in soil** : No information available
- 12.5. Results of PBT and vPvB assessment** : No information available
- 12.6. Other adverse effects** : No information available

13. DISPOSAL CONSIDERATIONS

- 13.1. Waste treatment methods**
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

- 14.1. UN number** : 1210
- 14.2. UN proper shipping name** : PRINTING INK / PRINTING INK RELATED MATERIAL
- 14.3. Transport hazard class(es)** : 3
- 14.4. Packing group** : II
- 14.5. Environmental hazards** : Not restricted
- 14.6. Special precautions for user** : No information available
- 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** : No information available
- 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

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15. REGULATORY INFORMATION

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture** : France : Occupational diseases (table(s) n° 84)
- 15.2. Chemical Safety Assessment** : No information available

16. OTHER INFORMATION

- R phrases text of § 2&3** : R11 : Highly flammable.
R22 : Harmful if swallowed.
R41 : Risk of serious damage to eyes.
R51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R67 : Vapours may cause drowsiness and dizziness.
- H phrases text of § 2&3** : H225 : Highly flammable liquid and vapour.
H302 : Harmful if swallowed.
H318 : Causes serious eye damage.
H336 : May cause drowsiness or dizziness.
H411 : Toxic to aquatic life with long lasting effects.
- Restrictions on use** : This product must not be used for other applications that mentioned in §1.
- 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)
This sheet has been revised completely (changes were not marked)
- 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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