

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

### 1.1 Product identifier

Product name: Smart Jet I  
Product number: S-CS01520

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Ink

### 1.3 Details of the supplier of the Safety Data Sheet

Manufacturer/Supplier: GenesInk  
Zone Industrielle  
39 Avenue Gaston Imbert - 13790 Rousset (France)  
Telephone: +33 (0) 442 370 580  
Fax: +33 (0) 442 200 703  
E-mail address: [hse@genesink.com](mailto:hse@genesink.com)

### 1.4 Emergency telephone number

Emergency Phone: I.N.R.S.: +33 (0)1 45 42 59 59  
CARECHEM 24 INTERNATIONAL: +44 12 35239670

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008 [CLP]

Flam. Liq. 3  
Acute Tox. 4  
Skin Irrit. 2  
Eye Damage 1  
STOT SE 3  
Aquatic Acute 1  
Aquatic Chronic 1

### 2.2 Label elements

#### Labelling according Regulation (EC) No. 1272/2008 [CLP]

Hazard pictogram(s)



Signal word

Danger

Hazard statement(s):

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statement(s):

P261	Avoid breathing vapours.
P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container to local regulations.

### 2.3 Other hazards

none

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Name	CAS No.	EC No.	Index No.	Classification	Weight % content (or range)
Silver	7440-22-4	231-131-3	-	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	10 - 30 %
p-menth-1-en-8-ol	8000-41-7	232-268-1	-	Eye Irrit 2., H319	20 - 40%
butan-1-ol	71-36-3	200-751-6	603-004-00-6	Flam. Liq. 3, H226 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Damage 1, H318 STOT SE 3, H336	5 - 20%
2-(2-butoxyethoxy)ethanol diethylene glycol monobutyl ether	112-34-5	203-961-6	603-096-00-8	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	1 - 10%

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

#### General notes

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### Following inhalation

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### Following skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

#### Following eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### Following ingestion

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

No further relevant information available.

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

No further relevant information available.

## 5. FIREFIGHTING MEASURES

### 5.1 Extinguishing media

#### Suitable extinguishing media

Use water spray, carbon dioxide (CO<sub>2</sub>), alcohol-resistant foam.

#### Unsuitable extinguishing media

Water jet

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

Carbon monoxide (CO) and carbon dioxide (CO<sub>2</sub>).

### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.  
Keep receptacles cool with water spray.

## 6. ACCIDENTAL RELEASE MEASURES

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

Use personal protective equipment.  
Avoid breathing vapours, mist or gas.

Ensure adequate ventilation.  
Remove all sources of ignition.  
Evacuate personnel to safe areas.  
Beware of vapours accumulating to form explosive concentrations.  
Vapours can accumulate in low areas.

**6.2 Environmental precautions**

Prevent further leakage or spillage if safe to do so.  
Do not let product enter drains.  
Discharge into the environment must be avoided.

**6.3 Methods and materials for containment and cleaning up**

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).  
Keep in suitable, closed containers for disposal.

**6.4 Reference to other sections**

For disposal see section 13.

## 7. HANDLING AND STORAGE

**7.1 Precautions for safe handling**

Avoid contact with skin and eyes.  
Avoid inhalation of vapor or mist.  
Keep away from sources of ignition – No smoking.  
Take measures to prevent the build-up of electrostatic charge.  
Provide local ventilation at the workplace.  
Staff should wear appropriate protective clothing, gloves and goggles, so avoid contact with skin and eyes.  
It is forbidden to eat and drink in areas where the preparation is used. Never open the packages under pressure.  
Never open the packages under pressure.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in cool place: 3-5°C.  
Keep container tightly closed in a dry and well-ventilated place.  
Keep away from heat, ignition and incompatible materials.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.

**7.3 Specific end use(s)**

No further relevant information available.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**8.1 Control parameters****Occupational exposure limit values**

Substance	CAS-No	TWA		TLV		Remarks
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	
Silver	7440-22-4	-	0.1	-	-	-
p-menth-1-en-8-ol	8000-41-7	-	-	-	-	-
butan-1-ol	71-36-3	-	-	-	-	-
2-(2-butoxyethoxy)ethanol diethylene glycol monobutyl ether	112-34-5	-	-	-	-	-

## 8.2 Exposure controls

### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice.  
Wash hands before breaks and at the end of workday.

### Personal protection

#### Eye/face protection

Safety glasses with side-shields conforming to EN166.  
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Handle with gloves.  
Gloves must be inspected prior to use.  
Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.  
Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.  
Wash and dry hands.  
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

#### Body Protection

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing.  
The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Environmental exposure controls

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

a) Appearance	Liquid
b) Odour	Characteristic
a) Odour threshold	No data available
b) pH	No data available
a) Melting/freezing point	No data available
a) Initial boiling point and boiling range	No data available
a) Flash point	60.0 ± 1.0°C (ISO 3679)
b) Evaporation rate	No data available
c) Flammability (solid, gas)	No data available
d) Upper/lower flammability or explosive limits	No data available
e) Vapour pressure	No data available
f) Vapour density	No data available
g) Relative density	1.17
h) Solubility(ies)	No data available
i) Partition coefficient: n-octanol/water	No data available
j) Auto-ignition temperature	No data available
k) Decomposition temperature	No data available
l) Viscosity	12.0 ± 2.0 mPa.s @ 20°C
m) Explosive properties	No data available
n) Oxidising properties	No data available

### 9.2 Other information

No more relevant data available.

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

Strong oxidant  
Peroxides

### 10.2 Chemical stability

Stable in normal conditions of use.

### 10.3 Possibility of hazardous reactions

no data available

### 10.4 Conditions to avoid

Heat, flames and sparks. Extremes of temperature and direct sunlight.

### 10.5 Incompatible materials

no data available

#### 10.6 Hazardous decomposition products

Carbon oxide, Carbon dioxide

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute toxicity

no data available

#### Skin corrosion/irritation

no data available

#### Serious eye damage/irritation

no data available

#### Respiratory or skin sensitisation

no data available

#### Germ cell mutagenicity

no data available

#### Carcinogenicity

no data available

#### Reproductive toxicity

##### Summary of evaluation of the CMR properties

no data available

#### STOT - single exposure

no data available

#### STOT - repeated exposure

no data available

#### Aspiration hazard

no data available

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

no data available

### 12.2 Persistence and degradability

no data available

### 12.3 Bioaccumulative potential

no data available

**12.4 Mobility in soil**  
no data available

**12.5 Results of PBT and vPvB assessment**  
no data available

**12.6 Other adverse effects**  
no data available

**12.7 Additional information**  
no data available

### 13. DISPOSAL CONSIDERATIONS

**13.1 Waste treatment methods**

**Product/Packaging disposal**  
**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

**Contaminated packaging**

Dispose of as unused product.

Empty containers should be made available to local factories for recycling or disposal.

**Other disposal recommendations**

Disposal must be made according to official regulations.

Packaging that cannot be cleaned should be disposed of in the same manner as the product. Wash with solvents before being sent for incineration.

### 14. TRANSPORT INFORMATION

Transport	UN number	UN proper shipping name	Transport hazard class(es)	Packing group	Environmental hazards	Special precautions for users
RID/ADR	1993	FLAMMABLE LIQUIDS, N.O.S.	3	III	-	No data available
IMDG	1993	FLAMMABLE LIQUIDS, N.O.S.	3	III	-	No data available
IATA	1993	FLAMMABLE LIQUIDS, N.O.S.	3	III	-	No data available

### 15. REGULATORY INFORMATION

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**



No data available

**15.2 Chemical Safety Assessment**

No data available

**16. OTHER INFORMATION****16.1 Text of H-code(s) and R-phrase(s) mentioned in section 2 and section 3**

H226	Flammable liquid and vapour.
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**16.2 Further information**

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