

Material Safety Data Sheet
 acc. to USA OSHA 29CFR1910.1200

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1 Identification of substance

• Product details

- **Trade name:** S4 SUBLI ORANGE 770
- **Article number:** 628770W
- **Intended use :** Ink-jet ink for transfer printing

• Manufacturer/Supplier:

Sensient Imaging Technologies S.A.
 Specialty Inks and Colors
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2 Composition/Data on components

• Hazardous components per USA OSHA 29CFR1910.1200:

56-81-5	glycerol	10-25%
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3 Hazards identification

• Hazard description: -

• Information pertaining to particular dangers for man and environment:

The product is considered an eye irritant per OSHA.

• Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

• NFPA ratings (scale 0 - 4)



Health = 1
 Fire = 1
 Reactivity = 0

• HMIS-ratings (scale 0 - 4)



HEALTH 1 Health = 1
 FIRE 1 Fire = 1
 REACTIVITY 0 Reactivity = 0
 Personal Protective Equipment = C

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• **GHS label elements** None

4 First aid measures

• **General information:**

No special measures required.

In all cases of doubt, when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

• **After inhalation:**

No adverse effect anticipated by this route of exposure. If symptoms show up, remove to fresh air.

• **After skin contact:**

Do not use solvents or thinners.

Remove contaminated clothing.

Immediately wash with water and soap and rinse thoroughly.

• **After eye contact:**

Flush eyes thoroughly with water for 15 minutes. Seek medical attention if irritation persists.

• **After swallowing:**

Keep at rest.

Do not induce vomiting; immediately call for medical help.

5 Fire fighting measures

• **Suitable extinguishing agents:**

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

• **Unsuitable extinguishing agents:** Water with full jet

• **Special hazards caused by the material, its products of combustion or resulting gases:**

Formation of toxic gases is possible during heating or in case of fire.

• **Protective equipment:** Mount respiratory protective device.

• **Additional information**

Collect contaminated fire fighting water separately. It must not enter the sewage system.

Cool endangered receptacles with water spray.

6 Accidental release measures

• **Person-related safety precautions:** Ensure adequate ventilation

• **Measures for environmental protection:**

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

• **Measures for cleaning/collecting:**

Absorb with liquid-binding material (sand, diatomite, sawdust).

Send for recovery or disposal in suitable containers.

Dispose contaminated material as waste according to item 13.

Avoid use of solvents.

7 Handling and storage

• **Handling:**

• **Information for safe handling:** No special measures required.

• **Information about protection against explosions and fires:** No special measures required.

• **Storage:**

• **Requirements to be met by storerooms and containers:**

Ideal storage temperature: 50 - 90°F.

Store in a cool location.

Use only containers specifically designed for this product.

• **Further information about storage conditions:**

Store in cool, dry conditions in well sealed containers.

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Protect from heat and direct sunlight.

8 Exposure controls and personal protection

• **Additional information about design of technical systems:** No further data; see item 7.

• **Components with limit values that require monitoring at the workplace:**

56-81-5 glycerol

PEL	15* 5** mg/m ³ *total dust **respirable fraction
TLV	10* ppm *Mist

• **Personal protective equipment:**

• **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Wash hands before breaks and at the end of work.

Do not eat or drink while working.

• **Breathing equipment:** Not required.

• **Protection of hands:**



Protective gloves

• **Eye protection:**



Safety glasses

• **Body protection:** Protective work clothing

9 Physical and chemical properties

• **General Information**

• Physical form:	Liquid
• Color:	Orange
• Odor:	Weak

• **Change in condition**

• Melting point/Melting range:	Not applicable
• Boiling point/Boiling range:	100°C (212°F)

• **Flash point:** > 100°C (> 212°F)

• **Ignition temperature:** > 350°C (> 662°F)

• **Danger of explosion:** Product does not present an explosion hazard.

• **Explosion limits:**

• Lower:	Not applicable
• Upper:	Not applicable

• **Vapor pressure at 20°C (68°F):** 23 hPa (17 mm Hg)

• **Density at 20°C (68°F):** 1.06 g/cm³

• **Solubility in / Miscibility with**

• **Water:** Miscible

• **pH-value at 20°C (68°F):** 8.4

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- **Viscosity:**
 - **Viscosity at 20°C (68°F):** 3 mPas

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
Stable under recommended storage and handling conditions.
- **Materials to be avoided:** Strong oxidizers.
- **Dangerous reactions** No dangerous reactions known if used according to specifications.
- **Dangerous products of decomposition:**
In case of fire, carbon and nitrogen oxides are the main combustion gases.

11 Toxicological information

- **General notes:**
There is no experimentally determined data available on the preparation itself.
The product is considered to be an eye irritant.

12 Ecological information

- **General notes:**
At present there are no ecotoxicological assessments.
Do not allow product to reach ground water, water course or sewage system.

13 Disposal considerations

- **Product:**
 - **Recommendation:** Waste material must be disposed of in accordance with local regulations.
- **Uncleaned packagings:**
 - **Recommendation:**
Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.
Packagings that cannot be cleansed are to be disposed of in the same manner as the product.

14 Transport information

- **DOT regulations:**
 - **Hazard class:** -
- **Land transport ADR/RID (cross-border):**
 - **ADR/RID class:** -
- **Maritime transport IMDG:**
 - **IMDG Class:** -
 - **Marine pollutant:** No
- **Air transport ICAO-TI and IATA-DGR:**
 - **ICAO/IATA Class:** -
- **UN "Model Regulation":** -

USA

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15 Regulations

• SARA

• Section 355 (Extremely hazardous substances):

None of the ingredients are listed.

• Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

• TSCA (Toxic Substances Control Act):

All components are included in the TSCA inventory and/or comply with TSCA regulations.

• California Proposition 65

• Chemicals known to cause cancer:

None of the ingredients are listed.

• Carcinogenic categories

• OSHA (Occupational Safety & Health Administration)

The product does not contain any carcinogenic substances according to OSHA criterias.

• Product related hazard informations:

Observe the general safety regulations when handling chemicals.

The product is considered to be an eye irritant.

The product has been classified and marked in accordance with national laws.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

The chapters that have been modified, are indicated in the left margin by an asterisk.

• Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)