

Material Safety Data Sheet



Irritant

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1. Identification of the substance

Product name: XaarJet UV-cure ink, 71K00

2. Composition / information on ingredients

<u>Hazardous components</u>	<u>CAS-No</u>	<u>Conc.%</u>	<u>Symbol</u>	<u>Risk phrases</u>
Acrylate esters		20-30 %	Xi	R36/37/38
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	approx. 5 %	Xn,N	R22-R51/53
Isobornyl Acrylate	5888-33-5	30-50 %	Xi	R43-R36/37/38
Tripropylene glycol diacrylate	42978-66-5	15-30 %	Xi	R43-R36/37/38
Polymer acid salt/Polymer amide		< 5 %	N	R51/R53

Risk phrases, explanations:

*R22 = Harmful if swallowed, R36 = Irritating to eyes, R37 = Irritating to respiratory system,
R38 = Irritating to skin, R43 = May cause sensitisation by skin contact, R51 = Toxic to aquatic organisms,
R52 = Harmful to aquatic organisms, R53 = May cause long term adverse effects in the aquatic environment*

3. Hazard identification

Health: Irritating to eyes, respiratory system and skin.

Environmental: Harmful to aquatic organisms
May cause long-term adverse effects in the aquatic environment.

Fire: The product is not classified as flammable.

4. First aid measures

General advice:	In case of doubt or with persisting symptoms obtain medical attention. Never pass anything through the mouth of an unconscious person.
Inhalation:	Remove patient from exposure, keep warm and at rest. Obtain medical attention.
Skin contact:	Remove contaminated clothing, and then wash the affected area with soap and water. Contaminated clothing should be laundered before reissue.
Eye contact:	Immediately irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 15 minutes. Obtain medical attention.
Ingestion:	Wash out mouth with water and give 200 – 300ml of water to drink. Do not induce vomiting. Obtain medical attention if ill effects occur.

5. Fire fighting measures

Extinguishing media:	Use water spray, foam, dry powder or CO ₂ . Remove containers from fire or cool them with water spray.
Specific hazards:	Not classed as flammable. Combustion will evolve toxic and irritating vapours.
Protective equipment for fire fighters:	Self-contained breathing apparatus and suitable protective clothing.

6. Accidental release measures

Personal precautions:	Ensure suitable personal protection during removal of spillages.
Environmental precautions:	Do not allow material to enter drains or water courses. Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.
Method for cleaning up:	Absorb onto inert material, like earth or sand, and place in suitable container for disposal. Dispose of according to Special Waste . Wash the spillage area clean. Washings must be prevented from entering surface water drains.

7. Handling and storage

Handling: Ensure good ventilation. Avoid contact with skin and eyes. Do not breathe vapour/spray. Keep away from strong oxidising agents

Storage: Keep container tightly closed in a cool, well ventilated place. Protect from extremes of temperature. Keep away from heat or direct sunlight.

8. Exposure controls / personal protection

Engineering measures: Ensure good ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. Avoid contact with the product.

Personal Protective equipment: Where contact may occur, wear chemical resistant gloves, suitable protective clothing and safety goggles. Wear approved mask/respirator if necessary.

Occupational exposure Limits: No occupational exposure limits assigned.

9. Physical and chemical properties

Appearance: Liquid
Colour: Black
Odour: Acrylate
Boiling point (°C) No data
Flash point (°C) No data
Autoignition Temperature (°C) No data
Flammability limits (vol-%) No data
Relative density (g/cm³, 20°C) No data
Solubility in water (g/l, 20 °C): Not soluble

10. Stability and reactivity

Stability: Stable under normal conditions in tightly closed vessels.

Conditions to avoid: Keep away from direct sunlight.

Materials to avoid: Avoid strong oxidizing agents.

11. Toxicological information

Inhalation:	Irritating to respiratory system
Skin contact:	Irritating to skin. It is not a skin sensitiser in animal tests. Unlikely to cause skin sensitisation.
Eye contact:	Irritating to eyes.
Ingestion:	Low acute oral toxicity, but ingestion may cause irritation of the gastrointestinal tract.

12. Ecological information

Solubility: The product is essentially insoluble in water.

Additional Information About Ecology

Ecotoxicity: Harmful to aquatic organisms.
May cause long-term adverse effects in the aquatic environment.

Water pollution class: (WGK2) - VwVwS Ann. 3

13. Disposal considerations

Product and contaminated packaging: Disposal must be in accordance with current national and local regulations. Chemical residues generally count as special waste.

14. Transport information

The product is not subject to transport regulations (ADR/RID, IATA/ ICAO and IMDG).

15. Regulatory information

Classification and labelling

Danger symbol: Xi (Irritant)

Risk phrases: Irritating to eyes, respiratory system and skin (R36/37/38)
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment (R52/53)

Safety phrases: Avoid contact with skin (S24)
Wear suitable gloves (S37)
Use only in well-ventilated areas (S51)
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice (S26)
Avoid release to the environment. Refer to special instructions / Material safety data sheet (S61)

Hazardous ingredients: Acrylates
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one

16. Other information

This data sheet was prepared in accordance with Directive 91/155/EEC (93/112/EC)

The information on this sheet is not a specification, it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage and use of the product. It is not applicable to unusual or non-standard uses of the product, nor where instructions or recommendations are not followed.
