



## Material Safety Data Sheet



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### 1. Identification of the substance

**Product name:** Xaar Oil-based Development Ink, IK820

### 2. Composition / information on ingredients

**Chemical Nature:** A preparation containing pigment dyestuff and aliphatic hydrocarbon.

Ingredient name	Einecs No.	CAS No.	Contents	Symbol	Risk (R No.)
Petroleum Distillate	265-148-2	64742-46-7	50-60%	Xn	65,66

*Risk phrases, explanations:*

*R65 = Harmful: May cause lung damage if swallowed, R66 = Repeated exposure may cause skin dryness or cracking.*

### 3. Hazard identification

#### Risk advice to man and the environment

This health hazard assessment is based on a consideration of the composition of this product.

Not regarded as a health or environmental hazard under current legislation

### 4. First aid measures

**Inhalation:** Do not induce vomiting! Never make an unconscious person vomit or drink fluids! Remove victim immediately from source of exposure.

**Skin contact:** Remove contaminated clothing. Wash skin with water. If symptoms develop, obtain medical attention. Contaminated clothing should be laundered before re-issue.

**Eye contact:** Remove expose and remove contact lenses before irrigating with eyewash solution or clean water, holding the eyelids apart, for at least 15 minutes. Obtain medical attention if irritation persists.

**Ingestion:** Do not induce vomiting. Never make an unconscious person vomit or drink fluids! If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Dangre of aspiration and development of chemical pneumonia. Provide rest, warmth and fresh air and seek medical attention immediatly.

### Notes to physician

**Treatment:** Symptomatic treatment and supportive therapy as indicated. Following severe exposure the patient should be kept under medical review for at least 48 hours as delayed pulmonary oedema may develop.

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**5. Fire fighting measures** Flash Point 100°C (COC)  
LEL 0.6% Volume  
UEL 7.0% volume

**Suitable extinguishing media:** Foam, dry chemical or sand.  
Water spray should only be used to cool containers.

**Specific hazards during fire fighting:** Not classed as flammable.  
Containers close to fire should be removed immediately or cooled with water. Keep run-off water out of sewers and water sources.

May ignite if strongly heated. No unusual fire or explosion hazards noted.

**Special protective equipment for fire-fighters:** A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

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## 6. Accidental release measures

<b>Personal precautions:</b>	Ensure suitable personal protection during removal of spillages. Avoid contact with skin and eyes Exclude sources of ignition and ventilate area.
<b>Environmental precautions:</b>	Do not allow to enter drains, sewers or watercourses. Large volumes may penetrate soil and contaminate ground water.
<b>Methods for cleaning up:</b>	Dike and recover large spills. Adsorb small spillages onto sand, earth or any suitable adsorbent material. Transfer to a vented container for disposal. Wash the spillage area clean with water and detergent. Washings must be prevented from entering surface water drains. Wear necessary protective equipment.

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## 7. Handling and storage

### Handling

#### Advice on protection against fire and Explosion:

Take precautionary measures against static discharges. Keep away from heat and sources of ignition.

#### Advice on safe handling:

Use only in well ventilated areas.  
Avoid contact with skin and eyes.  
Avoid inhalation of high concentrations of vapour/mist.  
Use approved respirator if air contamination is above accepted level.

### Storage

#### Requirements for storage areas and containers:

Keep in original container  
Keep container tightly closed.  
Protect from light, including direct sun.  
Ground container and transfer equipment to avoid static discharges.  
Open containers carefully risk of pressure build up.

#### Materials not to be stored together:

Keep away from

strong oxidising agents

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## 8. Exposure controls / personal protection

Ingredient name	CAS No	STD	LT EXP (8Hrs)	St EXP (15 min)
Petroleum distillate	64742-46-47		200 ppm	

**Ingredient comments:** OES= Occupational exposure standard

### Engineering measures

Where suitable engineering controls are not fitted or are inadequate, wear suitable protective equipment.

### Personal protection equipment

<b>Respiratory protection:</b>	Use an MSHA/NIOSH approved respirator if exposure to levels above the occupational exposure limit is likely. If material is handled under mist forming conditions then NIOSH?MSHA approved respiratory protection equipment should be used.
<b>Hand protection:</b>	Wear suitable gloves.
<b>Eye protection:</b>	Wear eye/face protection.
<b>Skin and body protection:</b>	Wear suitable protective clothing.

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## 9. Physical and chemical properties

<b>Appearance:</b>	Low Viscosity Liquid
<b>Colour:</b>	Black
<b>Odour:</b>	Characteristic, oil. Hydrocarbon / amine
<b>Boiling point (°C):</b>	280-320
<b>Flash point (°C) (CC):</b>	>100
<b>Autoignition Temperature (°C):</b>	200
<b>Evaporation rate:</b>	<0.01 (BuAc=1)
<b>Vapour pressure (mmHg, 25°C):</b>	<0.03
<b>Vapour density (air = 1)</b>	>1
<b>Relative density (g/cm<sup>3</sup>):</b>	0.872
<b>Water solubility:</b>	Insoluble
<b>pH:</b>	Not Applicable

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## 10. Stability and reactivity

**Conditions to avoid:** Heat / flames and other sources of ignition

**Materials to avoid:** May react with strong oxidising agents.

**Hazardous decomposition products:** See 'Fire Fighting Measures'.

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## 11. Toxicological information

**Acute oral toxicity:** May cause nausea.

**Acute inhalation toxicity:** The vapour has anaesthetic properties and when inhaled at concentrations above the Occupational Exposure Limit, it may cause respiratory irritation, headache, fatigue, dizziness, nausea and vomiting. Central nervous system depressant.

**Skin irritation:** May cause skin irritation. Repeated or prolonged contact may cause defatting of the skin resulting in dryness, cracking and dermatitis.

**Eye contact:** May cause eye irritation.

**Ingredient Specific Toxicity** Carbon black has been listed by IARC as a group 2B possible carcinogen. The listing was based on a review of chronic particulate inhalation studies of free carbon black in rats at levels causing "lung particulate overload" conditions. Printing inks containing carbon black do not present a chronic inhalation hazard.

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## 12. Ecological information

**Environmental Hazards:** Little danger to environment

**Mobility:** Floats on water. Large volumes may penetrate soil and could contaminate groundwater.

**Degradability:** Oxidises rapidly by photochemical reactions in air

**Acute Fish Toxicity:** No acute toxicity to aquatic organisms is expected at maximum water solubility of this material. Long term adverse effects to aquatic organisms are not expected.

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### 13. Disposal considerations

**Disposal method:** Disposal should be in accordance with local, state or national legislation.

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### 14. Transport information

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

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### 15. Regulatory information

#### Classification according to EEC directives

**Classification:** Not classified  
**Hazard labels:** Not classified  
**Risk phrases:** Not classified  
**Safety phrases:** Wear suitable gloves (S37)

#### NCPA HMIS Rating

<b>Health</b>	<b>1</b>
<b>Flammability</b>	<b>1</b>
<b>Reactivity</b>	<b>0</b>
<b>Special Hazards / Protective equipment</b>	<b>None</b>

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### 16. Other information

This data sheet was prepared in accordance with Directive 91/155/EEC and 1999/45/EC (and relevant amendments).

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.

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