

1. Identification of the substance/preparation and of the company/undertaking**1.1 Identification of the substance or preparation**

Makeup Ink TH-Type C EU

1.2 Company/undertaking identification

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2. Composition/information on ingredients**Chemical characterization** (preparation)

Makeup for printing ink

Hazardous components

EC-No.	CAS-No.	Chemical name	Quantity	Classification
200-659-6	67-56-1	Methanol	25 - 35 %	F, T R11-23/24/25-39/23/24/25
201-159-0	78-93-3	Butanone	65 - 75 %	F, Xi R11-36-66-67

Full text of each relevant R phrase can be found in heading 16.

3. Hazards identification**Classification**

Symbols : Highly flammable, Toxic, Harmful, Irritant

R-phrases :

Highly flammable.

Irritating to eyes.

Toxic by inhalation, in contact with skin and if swallowed.

Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

4. First aid measures**General information**

Remove contaminated soaked clothing immediately.

Keep warm and calm injured person.

Take away from danger area and lay down affected person.

After inhalation

Move to fresh air in case of accidental inhalation of vapours or decomposition products.

Refer for medical treatment.

After contact with skin

Wash off with soap and plenty of water.

Consult a doctor if skin irritation persists.

After contact with eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Seek medical treatment by eye specialist.

After ingestion

Induce vomiting only upon the advice of a physician.

Immediately give plenty of water (if possible charcoal slurry).

Do not induce vomiting.

Summon a doctor immediately.

5. Fire-fighting measures

Suitable extinguishing media

Alcohol-resistant foam, dry chemical, carbon dioxide (CO₂), water-spray.

Extinguishing media which must not be used for safety reasons

Full water jet

Special exposure hazards arriving from substance or preparation itself, combustion products, resulting gases

Carbon monoxide (CO), carbon dioxide (CO₂) and nitrogen oxides (NO_x).

Special protective equipment for fire-fighters

Use breathing apparatus with independent air supply.

Additional information

Vapours are heavier than air and spread along ground.

The vapour/air mixture is explosive, even in empty, uncleaned receptacles.

Risk of bursting of the receptacle.

Cool containers at risk with water spray jet.

6. Accidental release measures

Personal precautions

In case of vapour formation use respirator.

Ensure adequate ventilation.

Use personal protective clothing.

Keep away sources of ignition.

Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

Methods for cleaning up/taking up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).

Shovel into suitable container for disposal.

Additional information

Clean contaminated surface thoroughly.

7. Handling and storage

7.1 Handling

Advice on safe handling

Keep container tightly closed.

Do not breathe vapours.

Use only in thoroughly ventilated areas.

Avoid contact with skin, eyes and clothing.

Advice on protection against fire and explosion

Do not smoke - volatile.

Keep away from heat and sources of ignition.

Take precautionary measures against static discharges.

Use only explosion-proof equipment.

7.2 Storage

Requirements for storage rooms and vessels

Keep container tightly closed in a dry, cool and well-ventilated place.

Pay attention to anti-explosion rules.

Advice on storage compatibility

Incompatible with oxidizing agents.

Further information on storage conditions

Keep away from food, drink and animal feeding stuffs.

Storageclass (VCI) : 3 A

8. Exposure controls/personal protection

8.1 Exposure limit values

Exposure limits (EH40)

CAS No.	Substance	ml/m ³	mg/m ³	F/ml	Category	Origin
78-93-3	Butan-2-one (methyl ethyl ketone)	200	600		TWA (8 h)	WEL
	Butan-2-one (methyl ethyl ketone)	300	899		STEL (15 min)	WEL
67-56-1	Methanol	200	266		TWA (8 h)	WEL
	Methanol	250	333		STEL (15 min)	WEL

8.2 Exposure controls

Occupational exposure controls

Ensure adequate ventilation, especially in confined areas.

Protective and hygiene measures

Do not inhale vapours.

Avoid contact with eyes and skin.

Wash hands before breaks and immediately after handling the product.

When using, do not eat, drink or smoke.

Take off immediately all contaminated clothing.

Respiratory protection

In case of insufficient ventilation wear suitable respiratory equipment (gas filter type A).

Hand protection

Protective gloves resistant to chemicals made off viton, Minimum coat thickness 0,7 mm, Permeation resistance (wear duration) approx. 10 minutes, i.e. protective glove <Vitoject 890> made by www.kcl.de.

This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions.

Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

Eye protection

Eye wash bottle with pure water.

Tightly fitting goggles

Skin protection

Long sleeved clothing.

9. Physical and chemical properties

9.1 General information

Physical state : Liquid
Colour : Clear
Odour : Irritant

9.2 Important health, safety and environmental information

Changes in the physical state

		Test method
Flash point :	-4,1 °C	Closed cup
Lower explosion limits :	1,8 vol. %	
Upper explosion limits :	11,5 vol. %	
Density (at 20 °C) :	0,81 g/cm ³	
Water solubility : at (20 °C)	Partially miscible	

10. Stability and reactivity

Conditions to avoid

Vapour/air mixtures are explosive at intensive warming.
Heating can release vapours which can be ignited.

Materials to avoid

Oxidizing agents (strong).

Hazardous decomposition products

Carbon monoxide (CO), carbon dioxide (CO₂) and nitrogen oxides (NO_x)

Additional information

No decomposition if stored and applied as directed.

11. Toxicological information

Empirical data on effects on humans

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.
Irritating to eyes.
Vapours may cause drowsiness and dizziness.
Repeated exposure may cause skin dryness or cracking.

12. Ecological information

Additional information

Do not flush into surface water or sanitary sewer system.
Slightly water hazardous.

13. Disposal considerations

Advice on disposal

Where possible recycling is preferred to disposal.
Can be incinerated, when in compliance with local regulations.

Waste disposal number of waste from residues/unused products :

080312 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of printing inks; waste ink containing dangerous substances
Classified as hazardous waste.

Contaminated packaging

Empty containers should be taken for local recycling, recovery or waste disposal.
Contaminated packagings are to be treated like the product itself.

14. Transport information

Land transport (ADR/RID)

ADR/RID class : 3
Hazard-no. : 33
UN number : 1210
Hazard label : 3
ADR/RID packing group : II

Description of the goods

Printing ink

Remarks (land transport)

LQ 6: combination packaging: 5 l / 30 kg (total gross mass); trays: 1 l / 20 kg (total gross mass).

Inland waterways transport

Marine transport

IMDG code : 3
UN number : 1210
Marine pollutant : No
EmS : F-E, S-D
IMDG packing group : II
Hazard label : 3

Description of the goods

PRINTING INK

Air transport

ICAO/IATA-DGR : 3
UN/ID number : 1210
Hazard label : 3
ICAO packing group : II

Description of the goods

PRINTING INK

Remarks (air transport)

PAC 305 (5 L), CAC 307 (60 L)

15. Regulatory information

15.1 Labelling

Indication of danger : F - Highly flammable; T - Toxic

Labelling according to EC-guidelines : According to EC-regulations the product is to be labelled as follows:

Hazardous component(s) to be indicated on label

Methanol

R phrases :

- 11 Highly flammable.
36 Irritating to eyes.
23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

S phrases :

- 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
36/37 Wear suitable protective clothing and gloves.

15.2 National regulations

Water contaminating class : 1 - slightly water contaminating

1999/13/EC (VOC) : < 95 %

Additional information

Content of RoHS Directive material Cd < 100ppm; Pb, Hg, Hexavalent Cr, PBB, PBDE < 1000ppm.

16. Other information

List of relevant R phrases

- 11 Highly flammable.
36 Irritating to eyes.
66 Repeated exposure may cause skin dryness or cracking.
67 Vapours may cause drowsiness and dizziness.
23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

Other data

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product (s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

"(n.a. = not applicable; n.d. = not determined)"

Changes

Changes in chapter: 15

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)