

# ADII Ltd

## SAFETY DATA SHEET according to Regulation (EU) 2015/830

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### 10 second invisible ink

Revision 2


Revision date 2016-07-14

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

<b>1.1. Product identifier</b>	
Product name	10 second invisible ink
<b>1.2. Relevant identified uses of the substance or mixture and uses advised against</b>	
Description	Printing Ink.
<b>1.3. Details of the supplier of the safety data sheet</b>	
Company Address	ADII Limited Houldsworth Street Stockport Cheshire SK5 6DA
Telephone	+44 (0) 7590 414092
E-Mail	john@acorndigital.co.uk
<b>1.4. Emergency telephone number</b>	
24 Hours	+44 (0) 7590 414092

#### SECTION 2: Hazards identification

<b>2.1. Classification of the substance or mixture</b>	
2.1.1. Classification - 1999/45/EC	Xi; R37-41 R10-52/53 Symbols: Xi: Irritant.
Main hazards	Flammable. Irritating to respiratory system. Risk of serious damage to eyes. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
2.1.2. Classification - EC 1272/2008	Flam. Liq. 3: H226; Eye Dam. 1: H318; STOT SE 3: H335; Aquatic Chronic 3: H412;

<b>2.2. Label elements</b>	
Hazard pictograms	
Signal Word	Danger
Hazard Statement	Flam. Liq. 3: H226 - Flammable liquid and vapour. Eye Dam. 1: H318 - Causes serious eye damage. STOT SE 3: H335 - May cause respiratory irritation. Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.
Precautionary Statement: Prevention	P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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## 2.2. Label elements

Precautionary Statement: Response	P280 - Wear protective gloves/protective clothing/eye protection/face protection.
	P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
	P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Precautionary Statement: Storage	P403+P235 - Store in a well-ventilated place. Keep cool.

## 2.3. Other hazards

Other hazards	No data available.
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## SECTION 3: Composition/information on ingredients

## 3.2. Mixtures

## 67/548/EEC / 1999/45/EC

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
Cyclohexanone	606-000-007	108-94-1	203-631-1		70-80%	Flam. Liq. 3, H226: Acute Tox 4: H332:	
Trans Stilbene		103-30-0	203-098-5		3-4%	H315 causes skin irritation	

## EC 1272/2008

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## SECTION 4: First aid measures

## 4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air. Seek medical attention.
Eye contact	Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention.
Skin contact	Wash off immediately with plenty of soap and water. Remove contaminated clothing. Treat as for inhalation if any signs of poisoning are present.
Ingestion	DO NOT INDUCE VOMITING. Seek medical attention.

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

Inhalation	Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system. Inhalation of vapour may cause shortness of breath.
Eye contact	May cause irritation to eyes.
Skin contact	May cause irritation to skin. Repeated exposure may cause skin dryness or cracking.
Ingestion	Ingestion is irritating to the respiratory tract and may cause damage to the central nervous system. Ingestion may cause nausea and vomiting.

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

Inhalation	Seek medical attention.
Eye contact	Seek medical attention.
Skin contact	Seek medical attention.
Ingestion	Seek medical attention.

## SECTION 5: Firefighting measures

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## 5.1. Extinguishing media

	Extinguishing media. Alcohol resistant foam. Carbon dioxide (CO <sub>2</sub> ). Dry powder or water fog. Water spray, fog or mist. Do NOT use water jet.
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## 5.2. Special hazards arising from the substance or mixture

	Flammable liquid and vapour. Vapours are heavier than air. Burning produces irritating, toxic and obnoxious fumes.
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## 5.3. Advice for firefighters

	In case of fire and/or explosion do not breathe fumes. Wear: Self-contained breathing apparatus. Protective equipment.
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## Further information

	No data available.
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**SECTION 6: Accidental release measures**

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

	Avoid contact with skin and eyes.
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## 6.2. Environmental precautions

	Advise local authorities if large spills cannot be contained. Do not allow product to enter drains. Prevent further spillage if safe.
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## 6.3. Methods and material for containment and cleaning up

	Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.
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## 6.4. Reference to other sections

	See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.
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## Further information

	No data available.
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**SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

	Adopt best Manual Handling considerations when handling, carrying and dispensing. Avoid contact with skin and eyes. Ensure adequate ventilation of the working area.
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## 7.2. Conditions for safe storage, including any incompatibilities

	Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store in correctly labelled containers. Keep away from sources of ignition - No smoking.
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## 7.3. Specific end use(s)

	Used in Industrial applications.
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**SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

	Control parameters.
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## 8.1.1. Exposure Limit Values

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## 8.1.1. Exposure Limit Values

2-methoxy-1-methylethyl acetate	WEL 8-hr limit ppm:	50	WEL 8-hr limit mg/m3:	274
	WEL 15 min limit ppm:	100	WEL 15 min limit mg/m3:	548
	WEL 8-hr limit mg/m3 total inhalable dust:	-	WEL 15 min limit mg/m3 total inhalable dust:	-
	WEL 8-hr limit mg/m3 total respirable dust:	-	WEL 15 min limit mg/m3 total respirable dust:	-

## 8.2. Exposure controls

	No data available.
8.2.1. Appropriate engineering controls	Ensure adequate ventilation of the working area.
8.2.2. Individual protection measures	Wear chemical protective clothing. Suitable foot protection e.g. boots. Wear suitable protective clothing. Wear suitable gloves and eye/face protection.
Eye / face protection	Approved safety goggles.
Skin protection - Handprotection	Chemical resistant gloves (PVC).
Skin protection - Other	Wear suitable protective clothing and gloves.
Respiratory protection	Self-contained breathing apparatus.
Thermal hazards	No data available.

## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Black
Odour	Mild
Odour threshold	No data available
pH	No data available
Melting point	No data available
Initial boiling point	110 °C
Flash point	40 °C
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	0.9 (H2O = 1 @ 20 °C)
Partition coefficient	No data available
Autoignition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidising properties	No data available
Solubility	Slightly soluble in water

## 9.2. Other information

Conductivity	No data available
Surface tension	No data available
Gas group	No data available
Benzene Content	No data available
Lead content	No data available
VOC (Volatile organic compounds)	836 g/l

## SECTION 10: Stability and reactivity

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## 10.1. Reactivity

No data available.

## 10.2. Chemical stability

Stable under normal conditions.

## 10.3. Possibility of hazardous reactions

No data available.

## 10.4. Conditions to avoid

Heat, sparks and open flames.

## 10.5. Incompatible materials

Strong oxidising agents.

## 10.6. Hazardous decomposition products

No data available.

## Further information

No data available.

## SECTION 11: Toxicological information

## 11.1.4. Toxicological Information

2-methoxy-1-methylethyl acetate	Oral Rat LD50: 50 >2000 mg/kg	
Ethyl lactate	Oral Rat LD50: >8,200 mg/kg Inhalation Rat LC50/4 h: no data available	Dermal Rabbit LD50: >5000 mg/kg
Metal Complex Black Dye 29	Dermal Rat LD50: 2000 mg/kg Oral Mouse LD50: 2.202 mg/kg	Oral Rat LD50: 5000 mg/kg Inhalation Rat LC50/4 h: 5.9 mg/kg

## SECTION 12: Ecological information

## 12.1. Toxicity

2-methoxy-1-methylethyl acetate	Daphnia EC50/48h: 500 mg/l	Fish LC50/96h: 180 mg/l
Ethyl lactate	Daphnia EC50/48h: 560 mg/l	Fish LC50/96h: 320 mg/l
Metal Complex Black Dye 29	Daphnia EC50/48h: 1000 mg/l Fish LC50/96h: 100 mg/l	Algae IC50/72h: 100 mg/l

## 12.2. Persistence and degradability

No data available.

## 12.3. Bioaccumulative potential

No data available.

## Partition coefficient

ADII PME Fast Dry Solvent Black 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.

## Further information

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## Further information

No data available.

## SECTION 13: Disposal considerations

## 13.1. Waste treatment methods

This product and it's container must be disposed of in accordance with all local and national regulations.

## SECTION 14: Transport information

## Hazard pictograms



## 14.1. UN number

UN1210

## 14.2. UN proper shipping name

PRINTING INK

## 14.3. Transport hazard class(es)

ADR/RID	3
Subsidiary risk	-
IMDG	3
Subsidiary risk	-
IATA	3
Subsidiary risk	-

## 14.4. Packing group

Packing group III

## 14.5. Environmental hazards

Environmental hazards	No
Marine pollutant	No

## ADR/RID

Hazard ID	30
Tunnel Category	(D/E)

## IMDG

EmS Code	F-E S-D
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## IATA

Packing Instruction (Cargo)	366
Maximum quantity	220 L
Packing Instruction (Passenger)	355
Maximum quantity	60 L

## SECTION 15: Regulatory information

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

EU Commission Regulation 2015/830/EU: Amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and

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

Restriction of Chemicals (REACH).

## 15.2. Chemical safety assessment

This product contains substances for which Chemical Safety Assessment are still required.

## SECTION 16: Other information

## Other information

Revision	This document differs from the previous version in the following areas: 2 - Hazard pictograms.
Text of risk phrases in Section 3	R10 - Flammable R37 - Irritating to respiratory system. R41 - Risk of serious damage to eyes. R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Text of Hazard Statements in Section 3	Flam. Liq. 3: H226 - Flammable liquid and vapour. Eye Dam. 1: H318 - Causes serious eye damage. STOT SE 3: H335 - May cause respiratory irritation. Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.
Maximum content of VOC	836 g/l.

## Further information

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.