

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

ARICI  INKJET

Issue date: 09.09.2022

Version: 00000.001

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

1.1 Product identifier

Solvent Black
HP® 45si Cartridge

Other means of identification XH
00852

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the substance / mixture
Inkjet ink · for industrial use

1.3 Details of the supplier of the safety data sheet

ARICI INKJET

KÜFERSTR. 15

73257 KÖNGEN

GERMANY

TEL: 004970244095313

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1.4 Emergency Telephone Number

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2. SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No. 1272/2008 [CLP] Flam. Fl. 2, H225 ·
Aquatic Chronic 3, H412 · Eye Irr. 2, H319

2.2 Label elements

2.2.1 Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



GHS02

GHS07

Signal word

Danger

Hazard Statements

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting/ /equipment.

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P243	Take precautionary measures against static discharge.
P264	Wash with water and soap thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

P403+P235 Store in a well-ventilated place. Keep cool.

2.3 Other hazards

No data available

3. SECTION 3: Composition/information on ingredients

Mixtures

Ethanol; EC No.: 200-578-6; CAS No.: 64-17-5

% [weight]: 80-90

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Eye Irr. 2, H319 · Flam. Fl. 2, H225

2-Butanone; EC No.: 201-159-0; CAS No.: 78-93-3; REACH No.: 01-2119457290-43

% [weight]: 5-10

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flam. Liq. 2, H225 · Eye Irr. 2, H319 · STOT SE 3, H336

Azo-chrome complex dye

% [weight]: 5-10

Classification according to Regulation (EC) No. 1272/2008 [CLP] Aquatic Chronic

2, H411

Remark

Full text of H- and EUH-phrases: see section 16.

4. SECTION 4: First aid measures

4.1 Description of first aid measures General

information

Change contaminated, saturated clothing. When in doubt or if symptoms are observed, get medical advice.

Following inhalation

Remove casualty to fresh air and keep warm and at rest. In case of respiratory tract irritation, consult a physician.

Following skin contact

Do not let product dry on skin. In case of skin irritation, consult a physician. Wash immediately with: Water and soap

Following eye contact

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist.

Following ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed Dyspnoea

Dizziness

Vomiting

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Cough
Anaesthetic state
Dizziness

4.3 Indication of any immediate medical attention and special treatment needed

First Aid, decontamination, treatment of symptoms.

5.

5.1 SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media

Alcohol resistant foam

Carbon dioxide (CO₂)

Dry extinguishing powder

Water spray

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Carbon dioxide (CO₂)

Carbon monoxide

5.3 Advice for firefighters

Special protective equipment for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

5.4 Additional information

Use water spray jet to protect personnel and to cool endangered containers.

6. SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protection equipment. Be aware that gases can spread at ground level (heavier than air) and pay attention to the wind direction. Use appropriate respiratory protection. Remove all sources of ignition. Remove persons to safety.

6.2 Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up Suitable material for taking up:

Absorbing material, organic

Universal binder

6.4 Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

7. SECTION 7: Handling and Storage

7.1 Precautions for safe handling

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Advices on safe handling

All work processes must always be designed so that the following is excluded:

Inhalation of vapours or spray/mists

Skin contact

Eye contact

If handled uncovered, arrangements with local exhaust ventilation have to be used. Always close containers tightly after the removal of product.

Measures to prevent fire

Keep away from sources of ignition - No smoking.

Vapours are heavier than air, spread along floors and form explosive mixtures with air.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels Keep/store only in original container.

Keep/store at a controlled temperature range between 4 °C (39 °F) and 25 °C (77 °F). Keep container tightly closed.

7.3 Specific end uses

Observe technical data sheet.

8. SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ethanol; EC No.: 200-578-6; CAS No.: 64-17-5 Air limit values

AGW (DE): 960mg/m³, 500ml/m³; 2(II); DFG, Y: a risk of reproductive effects needs not to be feared if the occupational exposure limit value (AGW) and the biological limit value (BGW) is kept

2-Butanone; EC No.: 201-159-0; CAS No.: 78-93-3; REACH No.: 01-2119457290-43

Air limit values

AGW (DE): 600 mg/m³, 200 ml/m³ 1 (I); DFG, H, Y

DNEL-/PNEC-values

DNEL consumer: 31 mg/kg bw/day (long-term oral (systemic))

DNEL consumer: 412 mg/kg bw/day (long-term dermal (systemic))

DNEL worker: 1161 mg/kg bw/day (long-term dermal (systemic))

DNEL consumer: 106 mg/m³ (long-term inhalative (systemic))

DNEL worker: 600 mg/m³ (long-term inhalative (systemic))

PNEC: 55,8mg /l (PNEC aquatic, freshwater)

PNEC: 55,8 mg/l (PNEC aquatic, marine water)

PNEC: 284,74 mg/kg (PNEC sediment, freshwater)

PNEC: 284,7 mg/kg (PNEC sediment, marine water) PNEC: 22,5

mg/kg (Soil)

PNEC: 709 mg/l (PNEC sewage treatment plant (STP))

8.2 Exposure controls

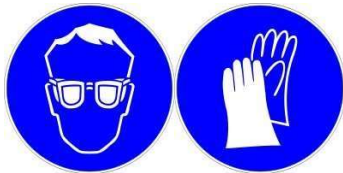
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8.2.1 Personal protection equipment



Eye/face protection

Suitable eye protection: Eye glasses with side protection.

Hand protection

Suitable gloves type: Gloves with long cuffs. Suitable material: NBR (nitrile rubber). Breakthrough time (maximum wear duration) 10 min.

Body protection

Suitable protective clothing:

Chemical protection clothing **Respiratory**

protection

Respiratory protection necessary at:
insufficient exhaust

8.3 Environmental exposure controls

See section 6 and 7. No additional measures necessary.

9. SECTION 9: Physical and chemical Properties 9.1

Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	black
Odour:	characteristic

Lower explosion limit (Vol-%): Upper explosion limit (Vol-%):	n.a.
pH value:	n.a.
Melting point / melting range:	n.a.
Boiling temperature / boiling range:	>35 °C
Auto-ignition temperature:	n.a.
Vapour pressure:	n.a.
Density:	n.a. at °C: 20 (ISO 15212-1)
Water solubility (g/l):	n.a.
Partition coefficient n-octanol/water (log P O/W):	n.a.
Kinematic viscosity:	n.a.
Dynamic viscosity:	1,5 cps at °C: 25 (DIN 53019)
Surface tension:	23 mN/m at °C: 25

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Vapor density:	n.a.
Flash point (°C):	8 (DIN 51755 Part 1)
Inflammability:	n.a.
Decomposition temperature:	n.a.

9.2 Other safety information

No data available

10. SECTION 10: Stability and Reactivity

10.1 Reactivity

Reacts with strong oxidizing agents and strong reducing agents possibly at severe heat generation. 10.2

Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4 Conditions to avoid

In case of warming:
Danger of formation of explosive atmospheres.

10.5 Incompatible materials

Violent
reaction with:
Alkali metals

10.6 Hazardous decomposition products

Does not decompose when used for intended uses.

11. SECTION 11: Toxicological information

11.1 Toxicokinetics, metabolism and distribution

11.1.1 Information on toxicological effects Acute toxicity

There are no data available on the preparation / mixture itself.

Ethanol; EC No.: 200-578-6; CAS No.: 64-17-5

Acute oral toxicity
LD50: (Rat): 7600
Acute inhalation toxicity
LC50: (Rat): 4h, 20000mg/l

2-Butanone; EC No.: 201-159-0; CAS No.: 78-93-3; REACH No.: 01-2119457290-43

Acute oral toxicity
LD50: (Rat): 3300 mg/kg
Acute dermal toxicity
LD50: (Rabbit): 5000 mg/kg
Acute inhalation toxicity
LC50: (Rat): 34,5 mg/l, 4h
LC50: (Mouse): 40 mg/l, 4h

Azo-chrome complex dye
Acute oral toxicity
LD50: (Rat): >2.000mg/kg

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Acute dermal toxicity

LD50: (Rat): >2.000mg/kg

Skin corrosion/Irritation

There are no data available on the preparation / mixture itself.

Eye damage / irritation

There are no data available on the preparation / mixture itself. **Irritation to respiratory tract**

There are no data available on the preparation / mixture itself.

Sensitisation

There are no data available on the preparation / mixture itself.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

There are no data available on the preparation / mixture itself.

Specific target organ toxicity (single exposure)

There are no data available on the preparation / mixture itself.

12. SECTION 12: Ecological information

12.1 Toxicity

12.1.1 Aquatic toxicity

There are no data available on the mixture itself.

Ethanol; EC No.: 200-578-6; CAS No.: 64-17-5

Acute (short-term) fish toxicity lethal (in 24h):

(Fish): 9000 mg/l

Limit of harmfulness: (Small crustacean): 8700 mg/l

TGK: (Bacteria): 6500 mg/l

2-Butanone; EC No.: 201-159-0; CAS No.: 78-93-3; REACH No.: 01-2119457290-43

Acute (short-term) fish toxicity EC50:

(Daphnia): 1382 mg/l, 48h LC50: (Fish):

>3000 mg/l, 96h

Azo-chrome complex dye

Acute (short-term) fish toxicity

LC50: (Fish): 2,0mg/l

EC50: (Daphnia magna (Big water flea.): 1.000mg/l EC50:

(Alga): >0,42mg/l

12.2 Persistence and degradability

There are no data available on the mixture itself.

2-Butanone; EC No.: 201-159-0; CAS No.: 78-93-3; REACH No.: 01-2119457290-43

Biodegradation

Biodegradation Readily biodegradable (according to OECD criteria).

12.3 Bioaccumulative potential

There are no data available on the mixture itself.

12.4 Mobility in soil

There are no data available on the mixture itself.

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12.5 Results of PBT and vPvB assessment

There are no data available on the mixture itself.

12.6 Other adverse effects

There are no data available on the mixture itself.

13. SECTION 13: Disposal considerations

13.1 Waste treatment methods

08 01 11 (Waste paint and varnish containing organic solvents or other dangerous substances.) 15 01 02
(Plastic packaging.)

14. SECTION 14: Transport information

14.1 UN-Number

1210

14.2 UN proper shipping name

ADR/RID: PRINTING INK
IMDG-Code: PRINTING INK
ICAO-TI: PRINTING INK
IATA-DGR: Printing ink

14.3 Transport hazard class

3

14.4 Packing group

II

14.5 Environmental hazards

ADR/RID: No
ICAO-TI: No
IATA-DGR: No

14.6 Special precautions for user

See also section 6-8.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Supply takes place only in suited packaging admitted by traffic regulations.

15. SECTION 15: Regulatory information

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

15.1.1 EU legislation

Directive 96/82/EC for danger control following severe accidents with dangerous substances
Not subject to 96/82/EC

Directive 2010/75/EU on industrial emissions not relevant

Directive 2004/42/CE on the limitation of emissions of
volatile organic compounds not relevant

15.1.2 National regulations

Störfallverordnung (12. BImSchV)

Not subject to StörfallVO.

Technische Anleitung zur Reinhaltung der Luft (TA-Luft)

No subject to TA-Luft.

Water hazard class (WGK) according to AWSV hazardous to
water (WGK 2)

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15.2 Chemical Safety Assessment

For this substance a chemical safety assessment has not been carried out.

16. SECTION 16: Other information

Abbreviations and acronyms

ADR	Accord européen relatif au transport international des marchandises Dangereuses par Route, fr. for "European Agreement concerning the international carriage of dangerous goods by road"
AGW	Arbeitsplatzgrenzwert, ger. for "occupational exposure limit value"
Aquatic Chronic	Long-term hazardous to the aquatic environment
CAS	Chemical Abstracts Service
CLP	Classification, Labelling & Packaging
CMR	Cancerogen Mutagen Reprotoxic
DIN	Deutsches Institut für Normung, ger. for "German Institute for Standardisation"
DNEL	Derived No Effect Level
EC	European Community
EC50	Half-maximal Effective Concentration
Eye Irr.	Serious eye irritation
Flam. Liq.	Flammable Liquids
IATA-DGR	International Air Transport Association - Dangerous Goods Regulations
ICAO-TI	International Civil Aviation Organization - Technical Instructions
ISO	Internationale Organisation für Normung, ger. for "International Organisation for Standardization"
LC50	Half-maximal Lethal Concentration
LD50	Half-maximal Lethal Dosage
n.a.	Not Applicable
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation of Chemicals
RID	Règlement concernant le transport international ferroviaire des marchandises dangereuses, fr. for "regulations concerning the international transport of dangerous goods by rail"
STOT SE	Specific target organ toxicity (single exposure)
TA-Luft	Technische Anleitung zur Reinhaltung der Luft, ger. for "Technical Guideline for Air Pollution Control"
TGK	Toxische Grenzkonzentration, ger. for "toxicological concentration limit"
vPvB	Very Persistent and very Bioaccumulative

Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]

Physical hazards: Assessment of measured test data (flashpoint)

Health and environmental hazards: Calculation methods

Relevant H- and EUH-phrases (Number and full text)

H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

