

Safety data sheet

according to 1907/2006/EC, Article 31 (as amended)

Printing date 16.03.2017

Version number 11

Revision: 19.05.2016

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

- **1.1 Product identifier** Aerosol Adhesive
- **Range** IA499 FLASHFIX SPRAY ADHESIVE
- **Product Codes** IA499
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
The product should not be used for any purpose other than that specified in Section 1.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer:**
Fujifilm Speciality Ink Systems Limited
Pysons Road, Broadstairs, Kent. CT10 2LE.
Tel. +44 (0)1843 866668
- **Information department:**
Product Safety Department
Office hours +44(0)1843 866668 (0830 to 1700 GMT)
product.safety@fujifilm.com
- **1.4 Emergency telephone number:** +44 (0) 203 394 9886 (English)

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**

Aerosol 1	H222-H229	Extremely flammable aerosol. Pressurised container: May burst if heated.
Skin Irrit. 2	H315	Causes skin irritation.
STOT SE 3	H336	May cause drowsiness or dizziness.
Aquatic Chronic 3	H412	Harmful to aquatic life with long lasting effects.

2.2 Label elements

- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS02



GHS07

- **Signal word** Danger
- **Hazard statements**
 - H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
 - H315 Causes skin irritation.
 - H336 May cause drowsiness or dizziness.
 - H412 Harmful to aquatic life with long lasting effects.
- **Precautionary statements**
 - P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
 - P251 Pressurized container: Do not pierce or burn, even after use.
 - P211 Do not spray on an open flame or other ignition source.
 - P261 Avoid breathing mist/vapours/spray.
 - P273 Avoid release to the environment.
 - P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

(Contd. on page 2)

GB

Safety data sheet

according to 1907/2006/EC, Article 31 (as amended)

Printing date 16.03.2017

Version number 11

Revision: 19.05.2016

Range IA499 FLASHFIX SPRAY ADHESIVE

(Contd. of page 1)

- **Additional information:**
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.
Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 64742-49-0 EINECS: 265-151-9 Reg.nr.: 01-2119475133-43	*Naphtha (petroleum), hydrotreated light ----- Flam. Liq. 2, H225 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	20-40%
CAS: 109-87-5 EINECS: 203-714-2 Reg.nr.: 01-2119664781-31	dimethoxymethane ----- Flam. Liq. 2, H225	10-30%
CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-32	butane, pure ----- Flam. Gas 1, H220 Press. Gas C, H280	5-10%
CAS: 110-54-3 EINECS: 203-777-6 Reg.nr.: 01-2119480412-44	n-hexane ----- Flam. Liq. 2, H225 Repr. 2, H361f; STOT RE 2, H373; Asp. Tox. 1, H304 Aquatic Chronic 2, H411 Skin Irrit. 2, H315; STOT SE 3, H336	<1%

- **Additional information** * See Nota P, Annex I

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information**
Never make an unconscious person vomit or drink fluids.
Immediately remove any clothing soiled by the product.
- **After inhalation**
Supply fresh air. If required, provide artificial respiration. Keep patient warm.
- **After skin contact** Immediately wash with soap and water and rinse thoroughly.
- **After eye contact** Rinse open eye for several minutes under running water.
- **After swallowing** Rinse out mouth and then drink plenty of water.
- **4.2 Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents** Water with full jet.
- **5.2 Special hazards arising from the substance or mixture**
In case of fire, the following can be released:

(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31 (as amended)

Printing date 16.03.2017

Version number 11

Revision: 19.05.2016

Range IA499 FLASHFIX SPRAY ADHESIVE

(Contd. of page 2)

Carbon monoxide (CO)

Under certain fire conditions, traces of other toxic gases cannot be excluded.

- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained breathing apparatus.
- **Additional information**

Cool endangered containers with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**

Keep away from ignition sources



Refer to the protective measures stated in Sections 7 and 8. Keep unprotected personnel away.

Ensure adequate ventilation

- **6.2 Environmental precautions:**

Prevent seepage into sewage system, workpits and cellars.

Do not allow to enter sewers/ surface or ground water.

- **6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomaceous earth, acid binders, universal binders, sawdust).

Ensure adequate ventilation.

Dispose of contaminated material as waste according to section 13.

- **6.4 Reference to other sections**

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**

Keep away from heat and direct sunlight.

Ensure good ventilation and extraction at the workplace.

- **Information about protection against explosions and fires:**



Keep ignition sources away - Do not smoke.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use. Do not spray onto a naked flame or any incandescent material.

- **7.2 Conditions for safe storage, including any incompatibilities**

- **Storage:**

- **Requirements to be met by storerooms and containers:** Store in a cool location.

- **Information about storage in one common storage facility:** Not required.

- **7.3 Specific end use(s)** No further relevant information available.

GB

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31 (as amended)

Printing date 16.03.2017

Version number 11

Revision: 19.05.2016

Range IA499 FLASHFIX SPRAY ADHESIVE

(Contd. of page 3)

SECTION 8: Exposure controls/personal protection· **8.1 Control parameters**· **Components with limit values that require monitoring at the workplace:****109-87-5 dimethoxymethane**

WEL (Great Britain)	Short-term value: 3950 mg/m ³ , 1250 ppm Long-term value: 3160 mg/m ³ , 1000 ppm
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106-97-8 butane, pure

WEL (Great Britain)	Short-term value: 1810 mg/m ³ , 750 ppm Long-term value: 1450 mg/m ³ , 600 ppm Carc (if more than 0.1% of buta-1.3-diene)
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110-54-3 n-hexane

WEL (Great Britain)	Long-term value: 72 mg/m ³ , 20 ppm
IOELV (European Union)	Long-term value: 72 mg/m ³ , 20 ppm

· **DNELs worker:**· **Additional information:**

The information given is derived from the legislation in force at the time of preparation of the Safety Data Sheet

· **8.2 Exposure controls**· **General protective and hygienic measures**

Wash hands before breaks and at the end of work.

· **Breathing equipment:** Not necessary if room is well-ventilated.· **Protection of hands:** Protective gloves.· **Eye protection:** Safety glasses· **Body protection:** Protective work clothing.· **COSHH Essentials for Printers Control Guidance Sheet:**

Guidance is provided by the Health and Safety executive (HSE) concerning COSHH (Control of Substances Hazardous to Health) for printers.

See COSHH Essentials for Printers on the HSE website:

www.hse.gov.uk and enter 'COSHH Essentials for printers' in the search bar.

SECTION 9: Physical and chemical properties· **9.1 Information on basic physical and chemical properties**· **General Information**· **Appearance:**

Form: Aerosol

Colour: According to product specification

· **Odour:** Characteristic

· **Odour threshold:** Not determined.

· **pH-value:** Not determined.

· **Change in condition**

Melting point/freezing point: undetermined

Initial boiling point and boiling range: Not applicable, as aerosol

· **Flash point:** -40 °C

· **Flammability (solid, gaseous)** Highly flammable.

· **Ignition temperature:** Not applicable

· **Decomposition temperature:** Not determined.

· **Self igniting:** Product is not selfigniting.

(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31 (as amended)

Printing date 16.03.2017

Version number 11

Revision: 19.05.2016

Range IA499 FLASHFIX SPRAY ADHESIVE

(Contd. of page 4)

· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures is possible.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Oxidising properties	Not determined
· Vapour pressure at 20 °C:	8300 hPa
· Density:	Not determined
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Water:	Not miscible or difficult to mix
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	Not determined
· dynamic:	Not determined.
· kinematic:	Not determined.
· Solvent content:	
Organic solvents:	75.0 %
· VOC (EU):	75.00 %
· 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· LD/LC50 values that are relevant for classification:		
106-97-8 butane, pure		
Inhalation	LC50	658 mg/m ³ (rat)

- **Skin corrosion/irritation**

Causes skin irritation.

- **Serious eye damage/irritation**

Based on available data, the classification criteria are not met.

- **Respiratory or skin sensitisation**

Based on available data, the classification criteria are not met.

- **Additional toxicological information:** No further data

- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

- **Germ cell mutagenicity**

Based on available data, the classification criteria are not met.

- **Carcinogenicity** Based on available data, the classification criteria are not met.

- **Reproductive toxicity**

Based on available data, the classification criteria are not met.

(Contd. on page 6)

Safety data sheet

according to 1907/2006/EC, Article 31 (as amended)

Printing date 16.03.2017

Version number 11

Revision: 19.05.2016

Range IA499 FLASHFIX SPRAY ADHESIVE

(Contd. of page 5)

- **STOT-single exposure**
May cause drowsiness or dizziness.
- **STOT-repeated exposure**
Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
There are no data on the preparation itself.
The preparation has been assessed following the conventional method of the CLP Directive 1272/2008/EC and is not classified as dangerous for the environment, but contains substance(s) dangerous for the environment. Also refer to Section 2.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**



Must not be disposed together with household rubbish. Do not allow product to reach sewage system.

- **European waste catalogue**

08 03 12*	waste ink containing hazardous substances
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- **Waste Hazard Classification:**
HP 3 - Flammable
HP 4 - Irritant
- **Recommendation:**
Dispose of product according to official regulations.
Also see Section 16 'Other Information'

SECTION 14: Transport information

- **14.1 UN-Number**
- **ADR, IMDG, IATA** UN1950
- **14.2 UN proper shipping name**
- **ADR** 1950 AEROSOLS
- **IMDG** AEROSOLS
- **IATA** AEROSOLS, flammable

(Contd. on page 7)

GB

Safety data sheet

according to 1907/2006/EC, Article 31 (as amended)

Printing date 16.03.2017

Version number 11

Revision: 19.05.2016

Range IA499 FLASHFIX SPRAY ADHESIVE

(Contd. of page 6)

· 14.3 Transport hazard class(es)

· ADR



- Class 2 5F Gases.
- Label 2.1

· IMDG



- Class 2 Gases.
- Label 2.1

· IATA



- Class 2.1
- Label 2.1

· 14.4 Packing group

- ADR Void

· 14.5 Environmental hazards:

- Marine pollutant: No

· 14.6 Special precautions for user

- Warning: Gases.
- Danger code (Kemler): -
- EMS Number: F-D, S-U

· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

· Transport/Additional information:

· ADR

- Limited quantities (LQ) 1L
- Excepted quantities (EQ) Code: E0
Not permitted as Excepted Quantity
- Transport category 2
- Tunnel restriction code D

· IMDG

- Limited quantities (LQ) 1L
- Excepted quantities (EQ) Code: E0
Not permitted as Excepted Quantity

· UN "Model Regulation":

UN1950, AEROSOLS, 2.1

SECTION 15: Regulatory information

- Chemical Safety Assessment Chemical Safety Assessment not applicable
- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Directive 2012/18/EU
- Named dangerous substances - ANNEX I None of the ingredients is listed.

(Contd. on page 8)

GB

Safety data sheet

according to 1907/2006/EC, Article 31 (as amended)

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Version number 11

Revision: 19.05.2016

Range IA499 FLASHFIX SPRAY ADHESIVE

(Contd. of page 7)

- **Seveso category** P3a FLAMMABLE AEROSOLS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 150 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
- **National regulations**
- **Other regulations, limitations and prohibitive regulations**
- **Substances of very high concern (SVHC) according to REACH, Article 57**
Does not contain a SVHC according to REACH, Article 57

SECTION 16: Other information

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This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

- H220 Extremely flammable gas.
- H225 Highly flammable liquid and vapour.
- H280 Contains gas under pressure; may explode if heated.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H336 May cause drowsiness or dizziness.
- H361f Suspected of damaging fertility.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H411 Toxic to aquatic life with long lasting effects.

· **Department issuing SDS:**

Product Safety Department - Fujifilm Speciality Ink Systems Limited

· **Contact:** product.safety@fujifilm.com· **Abbreviations and acronyms:**

- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association (IATA Dangerous Goods Regulation (DGR) 57th Edition 2016)
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- DNEL: Derived No-Effect Level (REACH)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- SVHC: Substances of Very High Concern
- vPvB: very Persistent and very Bioaccumulative
- Flam. Gas 1: Flammable gases - Category 1
- Aerosol 1: Aerosols - Category 1
- Press. Gas C: Gases under pressure - Compressed gas
- Flam. Liq. 2: Flammable liquids - Category 2
- Skin Irrit. 2: Skin corrosion/irritation - Category 2
- Repr. 2: Reproductive toxicity - Category 2
- STOT SE 3: Specific target organ toxicity (single exposure) - Category 3
- STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2
- Asp. Tox. 1: Aspiration hazard - Category 1
- Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2
- Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3