

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 13.06.2019

Version number 4

Revision: 13.06.2019

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

- **1.1 Product identifier** Ink jet printing ink
- **Range** HIGH PERFORMANCE INK FOR ACUTY - KN00B
- **Product Codes** KN021
- **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)
fsis.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**

Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2	H319	Causes serious eye irritation.
Skin Sens. 1	H317	May cause an allergic skin reaction.
Repr. 2	H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
STOT SE 3	H335	May cause respiratory irritation.
STOT RE 2	H373	May cause damage to the liver and the respiratory system through prolonged or repeated exposure.
Aquatic Chronic 2	H411	Toxic 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**



GHS07



GHS08



GHS09

- **Signal word** Warning
- **Hazard-determining components of labelling:**
Trimethylolpropane formalacrylate
2-Phenoxyethyl Acrylate
Isobornyl Acrylate
2H-Azepin-2-one, 1-ethanyhexahydro
- **Hazard statements**

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H335	May cause respiratory irritation.
H373	May cause damage to the liver and the respiratory system through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

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• **Precautionary statements**

- P261 Avoid breathing mist/vapours/spray.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P308+P313 IF exposed or concerned: Get medical advice/attention.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P337+P313 If eye irritation persists: Get medical advice/attention.

• **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: Mixture**

- **Description:** Mixture of substances listed below with nonhazardous additions.

• **Dangerous components:**

CAS: 66492-51-1 EINECS: 266-380-7 Reg.nr.: 01-2119976303-36	Trimethylolpropane formalacrylate Aquatic Chronic 2, H411 Skin Irrit. 2, H315; Skin Sens. 1, H317	10-30%
CAS: 5888-33-5 EINECS: 227-561-6 Reg.nr.: 01-2119957862-25	Isobornyl Acrylate Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	10-30%
CAS: 48145-04-6 EINECS: 256-360-6 Reg.nr.: 01-2119980532-35	2-Phenoxyethyl Acrylate Repr. 2, H361d Aquatic Chronic 2, H411 Skin Sens. 1A, H317	10-30%
CAS: 2235-00-9 EINECS: 218-787-6 Reg.nr.: 01-2119977109-27	2H-Azepin-2-one, 1-ethanyhexahydro STOT RE 1, H372 Acute Tox. 4, H302; Acute Tox. 4, H312; Eye Irrit. 2, H319; Skin Sens. 1, H317	5-10%
CAS: 75980-60-8 EINECS: 278-355-8 Reg.nr.: 01-2119972295-29	Phosphine Oxide, Diphenyl (2,4,6-tri-Methylbenzoyl)- Repr. 2, H361fd Aquatic Chronic 2, H411 Skin Sens. 1B, H317	5-10%
Polymer Reg.nr.: Polymer Exempt	Acrylated Polyester Oligomer Eye Irrit. 2, H319	1-5%
CAS: 56641-05-5 NLP: 500-133-9 Reg.nr.: Not Applicable	Phenol, ethoxylated esters with acrylic acid Aquatic Chronic 2, H411 Skin Sens. 1, H317	1-5%
CAS: 37280-82-3 Reg.nr.: Not Applicable	Phosphated alkoxyated polymer Eye Irrit. 2, H319	1-5%
CAS: 52408-84-1 NLP: 500-114-5 Reg.nr.: 01-2119487948-12	Glycerolpropoxytriacylate Eye Irrit. 2, H319; Skin Sens. 1A, H317	<1%
CAS: 15625-89-5 EINECS: 239-701-3 Reg.nr.: 01-2119489896-11	trimethylolpropane triacrylate Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	<1%

• **Additional information**

For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

• **4.1 Description of first aid measures**

• **After inhalation**

Supply fresh air and to be sure call for a doctor.

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In case of unconsciousness place patient stably in side position for transportation.

- **After skin contact**
If skin irritation continues, consult a doctor.
Immediately wash with soap and water and rinse thoroughly.
- **After eye contact**
Rinse open eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing** If symptoms persist consult doctor.
- **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.
- **5.2 Special hazards arising from the substance or mixture**
In case of fire, the following can be released:
Carbon monoxide (CO)
Nitrogen oxides (NO_x)
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**



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

Ensure adequate ventilation

- **6.2 Environmental precautions:**
Inform respective authorities if seepage into water course or sewage system occurs.
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).
Dispose of contaminated material as waste according to section 13.
Ensure adequate ventilation.
- **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**
Store in cool, dry place in tightly sealed containers.
Keep away from heat and direct sunlight.
No special measures required.
- **Information about protection against explosions and fires:**
No special measures required.

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- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:** Store in accordance with current national regulations.
- **Requirements to be met by storerooms and containers:**
Store between 5 - 30°C.
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.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Components with limit values that require monitoring at the workplace:**
- **DNELs**
worker:

5888-33-5 Isobornyl Acrylate		
Dermal	DNEL	1.39 mg/kg (-) (Long-Term exposure, Systemic effects)
Inhalation	DNEL	1.64 mg/m3 (-) (Long Term exposure, Systemic effects)
48145-04-6 2-Phenoxyethyl Acrylate		
Dermal	DNEL	3.5 mg/kg (-) (Long Term)
Inhalation	DNEL	12 mg/m3 (-) (Long Term)
2235-00-9 2H-Azepin-2-one, 1-ethanyhexahydro		
Dermal	DNEL	0.7 mg/kg (-) (long term exposure systemic effects)
Inhalation	DNEL	4.9 mg/m3 (-) (Long-term exposure-systemic effects) 0,17 mg/m3 (-) (Long Term exposure-local effects)
75980-60-8 Phosphine Oxide, Diphenyl (2,4,6-tri-Methylbenzoyl) -		
Dermal	DNEL	1 mg/kg (-) (Long Term)
Inhalation	DNEL	3.5 mg/m3 (-) (Long Term)
52408-84-1 Glycerolpropoxytriacylate		
Dermal	DNEL	1.92 mg/kg (-) (Long Term)
Inhalation	DNEL	16.2 mg/m3 (-) (Long Term)
15625-89-5 trimethylolpropane triacrylate		
Dermal	DNEL	83 mg/kg (-) (Long Term)
Inhalation	DNEL	3.5 mg/m3 (-) (Long Term)

• PNECs

2235-00-9 2H-Azepin-2-one, 1-ethanyhexahydro	
PNEC	0.1 mg/l (-) (Fresh Water) 0,01 mg/l (-) (Marine Water) 0,829 mg/kg (-) (Sediment Freshwater) 0,0829 mg/kg (-) Sediment Marine water) 0,107 mg/kg (-) (Soil)

- **Additional information:**
The instructions and information provided by the manufacturer of the personal protective equipment on use, storage, maintenance and replacement must always be followed.
- **8.2 Exposure controls**
- **General protective and hygienic measures**
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
- **Breathing equipment:**
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)
In cases of insufficient ventilation use the following respiratory protective device:
Filter A/P2.
- **Protection of hands:**
Use of the following recommended:

	Rubber		Nitrile		Neoprene	
Type	Single	Multi	Single	Multi	Single	Multi
	Use	Use	Use	Use	Use	Use
	(Gauntlets)		(Gauntlets)		(Gauntlets)	

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Preparation	X	Y	X	X	Y	X
Print Shop						
Solvent Inks	Y	Y	Y	Y	Y	Y
UV Inks	X	X	X	Y	Y	Y
Reclaim	X	X	Y	X	X	Y

Y = recommended X = not recommended

Single use disposable nitrile gloves (short duration exposure of few minutes, or where only splashes likely). Not to be reused when removed.

Minimum 0.4mm thick neoprene or nitrile gloves (longer duration exposure or mechanical handling activities). To be replaced immediately when punctured or degraded.

Heavy duty unlined neoprene gloves (when using solvents). To be replaced immediately when punctured or degraded.

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The selection of single or multi-use gloves is dependent upon the level of exposure.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance. Always ensure that gloves are free from defects and that they are stored and used correctly.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Hands should be inspected on a regular basis for any signs of skin damage or inflammation

- **Penetration time of glove material**

The exact break through time has to be obtained from the manufacturer of the protective gloves and must be observed.

- **Eye protection:** Safety glasses

- **Body protection:**

Protective work clothing; disposable overalls are preferable.

Acrylates, like any other organic solvent, are skin and/or eye irritants. Since acrylates do not evaporate, they will remain on the skin or clothes for extended periods. This long term exposure, caused by the non volatility, can give rise to dermatitis. It is essential that the measures given above are always followed.

- **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:	Liquid
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:	111 °C

- **Flash point:** Not applicable

- **Flammability (solid, gaseous)** Not applicable.

- **Ignition temperature:** Not applicable

- **Decomposition temperature:** Not determined.

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· Self igniting:	Product is not selfigniting.
· Explosive properties:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Oxidising properties	Not determined
· Vapour pressure:	Not determined.
· Density at 20 °C:	1.2 g/cm ³
· 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:	0.0 %
· 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.
- **Stable until:** 50°C
- **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:		
5888-33-5 Isobornyl Acrylate		
Oral	LD50	5,000 mg/kg (Rabbit)
48145-04-6 2-Phenoxyethyl Acrylate		
Dermal	LD50	>2,000 mg/kg (rat)
2235-00-9 2H-Azepin-2-one, 1-ethanyhexahydro		
Oral	LD50	1,860 mg/kg (rat) ((OECD Guideline 401))
Dermal	LD50	>2,000 mg/kg (rat)
		1,700 mg/kg (Rabbit) (OECD Guideline 402)
Inhalation	LC50 8h	>1.6 mg/l (rat)
75980-60-8 Phosphine Oxide, Diphenyl (2,4,6-tri-Methylbenzoyl) -		
Oral	LD50	>5,000 mg/kg (rat)
52408-84-1 Glycerolpropoxytriacylate		
Oral	LD50	10,000 mg/kg (rat)
Dermal	LD50	5,000 mg/kg (Rabbit)
15625-89-5 trimethylolpropane triacrylate		
Oral	LD50	3,680 mg/kg (rat)
Dermal	LD50	5,170 mg/kg (Rabbit)

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- **Skin corrosion/irritation**
Causes skin irritation.
- **Serious eye damage/irritation**
Causes serious eye irritation.
- **Respiratory or skin sensitisation**
May cause an allergic skin reaction.
- **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**
Suspected of damaging fertility. Suspected of damaging the unborn child.
- **STOT-single exposure**
May cause respiratory irritation.
- **STOT-repeated exposure**
May cause damage to the liver and the respiratory system through prolonged or repeated exposure.
- **Aspiration hazard**
Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

• 12.1 Toxicity

• Aquatic toxicity:

66492-51-1 Trimethylolpropane formalacrylate	
LC50/96 h	4 mg/l (Oncorhynchus mykiss)
5888-33-5 Isobornyl Acrylate	
LC50/96 h	0.7 mg/l (Zebra fish) (OECD Test Guideline 203)
EC50/72 h	1.98 mg/l (Algae) (OECD Test Guideline 201, Growth inhibition)
75980-60-8 Phosphine Oxide, Diphenyl (2,4,6-tri-Methylbenzoyl) -	
LC50/96 h	10-100 mg/l (Fish)
EC50	>500 mg/dm ³ (Bacteria)
EC50/48 h	1-10 mg/l (Daphnia)
EC50/72 h	10-100 mg/l (Algae)
15625-89-5 trimethylolpropane triacrylate	
LC50/96 h	1-10 mg/l (Daphnia)
EC50/48 h	10-100 mg/l (Daphnia)
EC50/72 h	1-10 mg/l (Algae)

- **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 classified as dangerous for the environment. Also refer to Sections 2 and 15.



Do not allow product to reach ground water, water course or sewage system.

- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

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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 4 - Irritant
 - HP 13 - Sensitising
 - HP 10 - Toxic for reproduction
 - HP 14 - Eco Toxic
 - HP 5 - Specific target Organ Toxicity/Aspiration Toxicity
- 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

UN3082

- 14.2 UN proper shipping name
- ADR

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Acrylate Monomer)
 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Acrylate Monomer), MARINE POLLUTANT
 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Acrylate Monomer)

- IMDG
- IATA

- 14.3 Transport hazard class(es)
- ADR, IMDG, IATA



- Class
- Label

9 Miscellaneous dangerous substances and articles.
 9

- 14.4 Packing group
- ADR, IMDG, IATA

III

- 14.5 Environmental hazards:

- Marine pollutant:
- Special marking (ADR):
- Special marking (IATA):

Yes
 Symbol (fish and tree)
 Symbol (fish and tree)
 Symbol (fish and tree)

- 14.6 Special precautions for user

Warning: Miscellaneous dangerous substances and articles.

- Danger code (Kemler):
- EMS Number:
- Stowage Category

90
 F-A, S-F
 A

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

Not applicable.

- Transport/Additional information:

Single or combination packagings containing a net quantity per single or inner packaging of 5lt/5kg or less of UN3082, are not subject to the provisions of ADR (Special Provision 375), IMDG (2.10.2.7) or IATA

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· (special provision 197) by way of a pack size exemption.	
· ADR	5L
· Limited quantities (LQ)	Code: E1
· Excepted quantities (EQ)	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· Transport category	3
· Tunnel restriction code	E
· UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ACRYLATE MONOMER), 9, III

SECTION 15: Regulatory information

- **15.2 Chemical Safety Assessment** Chemical Safety Assessment not applicable
- **15.28 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.
- **Seveso category E2** Hazardous to the Aquatic Environment
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

SECTION 16: Other information

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.

An "*" in the left hand margin indicates an amendment from the previous version.

· Relevant phrases

- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H361d Suspected of damaging the unborn child.
- H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.
- H372 Causes damage to the liver and the respiratory system through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.

· Recommended restriction of use

The product should not be used for any purpose other than that specified in Section 1.

· Department issuing SDS:

Product Safety Department - Fujifilm Speciality Ink Systems Limited

· Contact: fsis.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) 59th Edition 2018)
 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)
 PNEC: Predicted No-Effect Concentration (REACH)
 LC50: Lethal concentration, 50 percent

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LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 4: Acute toxicity - Category 4
Skin Irrit. 2: Skin corrosion/irritation - Category 2
Eye Irrit. 2: Serious eye damage/eye irritation - Category 2
Skin Sens. 1: Skin sensitisation - Category 1
Skin Sens. 1A: Skin sensitisation - Category 1A
Skin Sens. 1B: Skin sensitisation - Category 1B
Repr. 2: Reproductive toxicity - Category 2
Repr. 2: Reproductive toxicity - Category 2
STOT SE 3: Specific target organ toxicity (single exposure) - Category 3
STOT RE 1: Specific target organ toxicity (repeated exposure) - Category 1
STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

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