SAFETY DATA SHEET

Wolke Ink WLK660084A



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

1.1 Product identifier

Product name	1	WLK660084A
CAS number	1	Not applicable.

1.2 Relevant identified uses of the substance or mixture and uses advised against Material uses Industrial applications: Ink for use in a drop-on-demand printing process.

1.3 Details of the supplier of the safety data sheet

Website: www.videojet.com Email: FluidsSupport@videojet.com

Videojet Technologies Inc., 1500 Mittel Boulevard, Wood Dale, IL, 60191-1073 U.S.A Tel: 1-800-843-3610 Fax: 1-800-582-1343

Aldus-Tronics Pty Ltd, 41-43 Lakeside Drive, Broadmeadows, VIC 3047, Australia Tel: +61 03 9355 2300

LETO Technology Pty Ltd, Unit 4 / 71 Baines St, Kangaroo Point, QLD 4169, Australia Tel: +61 1300 020 204

Molenaar Australia Pty Ltd, Unit 9, 48-52 Shearson Crescent, Mentone, VIC 3194, Australia Tel: +61 1300 843 538

1.4 Emergency telephone number

Medical	
Transporters	

 SE (AU): +61 1800 686 951 / +61 02 8036 3166 3E Code: 334466
 SE (AU): +61 1800 686 951 / +61 02 8036 3166 3E Code: 334466

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition	: Mixture
1) 2) 3) 4)	Highly flammable liquid and vapour. Causes serious eye damage. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.
Ingredients of unknown toxicity	: Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 0%.
Ingredients of unknown ecotoxicity	: Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 7.9%

2.2 Label elements



Danger. Causes serious eye damage.

- **Hazardous ingredients** : propan-1-ol (CAS 71-23-8, EC 200-746-9).
- **Supplemental label** : Not applicable. elements

2.3 Other hazards Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	: This mixture contains substances that are assessed to be a PBT or a vPvB, refer to Section 3.2.
Other hazards which do not result in classification	: None known.
Additional guidance	: Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician. Keep container tightly closed.

SECTION 3: Composition/information on ingredients

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Substance/mixture

Product/ingredient name	Identifiers	%	Classification	Туре
ethanol	64-17-5	60 - <70	FLAMMABLE LIQUIDS - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 28	[1] [2]
propan-1-ol	71-23-8	5 - <10	FLAMMABLE LIQUIDS - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3	[1] [2]
pentan-2-one	107-87-9	5 - <10	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 3	[1] [2]
Isopropyl alcohol	67-63-0	2 - <5	FLAMMABLE LIQUIDS - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3	[1] [2]
Amines, coco alkyl, ethoxylated	61791-14-8	1 - <3	ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2	[1]
hydrogen bis[1-[(2-hydroxy-5-nitrophenyl)azo] -2-naphtholato(2-)]chromate(1-)	50497-83-1	1 - <3	Not classified.	[2]
hydrogen bis[1-[(2-hydroxy-4-nitrophenyl)azo] -2-naphtholato(2-)]chromate(1-)	72797-03-6	1 - <3	Not classified.	[2]
hydrogen [1-[(2-hydroxy-4-nitrophenyl)azo] -2-naphtholato(2-)][1-[(2-hydroxy- 5-nitrophenyl)azo]-2-naphtholato(2-)] chromate(1-)	52277-71-1	1 - <3	Not classified.	[2]

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit [2] Substance with a workplace exposure limit There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

See Section 16 for the full text of the H statements declared above.

SECTION 4: First aid measures

4.1 Description of first aid m	sures
Eye contact	: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
Inhalation	: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	: Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms	nd effects, both acute and delayed	
Potential acute health effects		
Eye contact	Causes serious eye damage.	
Inhalation	No known significant effects or critical ha	azards.
Skin contact	No known significant effects or critical ha	azards.
Ingestion	No known significant effects or critical h	azards.
Over-exposure signs/sympto	<u>5</u>	
Eye contact	Adverse symptoms may include the follo pain watering redness	wing:
Inhalation	No specific data.	
Skin contact	Adverse symptoms may include the follo pain or irritation redness blistering may occur	wing:
Ingestion	Adverse symptoms may include the follo stomach pains	wing:

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

SECTION 5: Firefighting measures 5.1 Extinguishing media Suitable extinguishing : Use dry chemical, CO₂, water spray (fog) or foam. media Unsuitable extinguishing : Do not use water jet. media 5.2 Special hazards arising from the substance or mixture Hazards from the : Highly flammable liquid and vapour. Runoff to sewer may create fire or explosion substance or mixture hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. Hazardous combustion : Decomposition products may include the following materials: products carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides 5.3 Advice for firefighters **Special protective actions** : Promptly isolate the scene by removing all persons from the vicinity of the incident if for fire-fighters there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. **Special protective** Fire-fighters should wear appropriate protective equipment and self-contained ŝ, breathing apparatus (SCBA) with a full face-piece operated in positive pressure equipment for fire-fighters mode. TION 6: Accidental release measures

SECTION	6: Accidental	release measures	

6.1 Personal precautions, pro-	teo	ctive equipment and emergency procedures
For non-emergency personnel	-	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

6.3 Methods and material for containment and cleaning up

Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spill product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

6.4 Reference to other sections

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

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product.

8.1 Control parameters

Occupational exposure limits

Product/ingredient name		Exposure limit values
ethanol		Safe Work Australia (Australia, 10/2022).
		TWA: 1880 mg/m ³ 8 hours.
		TWA: 1000 ppm 8 hours.
propan-1-ol		Safe Work Australia (Australia, 10/2022). Absorbed through skin.
		STEL: 614 mg/m ³ 15 minutes.
		STEL: 250 ppm 15 minutes.
		TWA: 492 mg/m ³ 8 hours.
		TWA: 200 ppm 8 hours.
pentan-2-one		Safe Work Australia (Australia, 10/2022).
		STEL: 881 mg/m ³ 15 minutes.
		STEL: 250 ppm 15 minutes.
		TWA: 705 mg/m ³ 8 hours.
		TWA: 200 ppm 8 hours.
Isopropyl alcohol		Safe Work Australia (Australia, 10/2022).
		STEL: 1230 mg/m ³ 15 minutes.
		STEL: 500 ppm 15 minutes.
		TWA: 983 mg/m ³ 8 hours.
		TWA: 400 ppm 8 hours.
hydrogen bis[1-[(2-hydroxy-5-nitrophe	enyl)azo]	Safe Work Australia (Australia, 10/2022). [Chromium (III) compounds (as Cr)]
-2-naphtholato(2-)]chromate(1-)		TWA: 0.5 mg/m³, (as Cr) 8 hours.
hydrogen bis[1-[(2-hydroxy-4-nitrophe	enyl)azo]	Safe Work Australia (Australia, 10/2022). [Chromium (III) compounds (as Cr)]
-2-naphtholato(2-)]chromate(1-)		TWA: 0.5 mg/m ³ , (as Cr) 8 hours.
hydrogen [1-[(2-hydroxy-4-nitropheny	l)azo]	Safe Work Australia (Australia, 10/2022). [Chromium (III) compounds (as Cr)]
-2-naphtholato(2-)][1-[(2-hydroxy-	-	TWA: 0.5 mg/m³, (as Cr) 8 hours.
5-nitrophenyl)azo]-2-naphtholato(2-)]		
chromate(1-)		
Biological exposure indices		
No exposure indices known.		
Recommended monitoring		erence should be made to appropriate monitoring standards. Reference to
procedures	nati	ional guidance documents for methods for the determination of hazardous
-	sub	stances will also be required.
.2 Exposure controls		
Appropriate engineering	: Use	e only with adequate ventilation. Use process enclosures, local exhaust
controls	ven	tilation or other engineering controls to keep worker exposure to airborne
		taminants below any recommended or statutory limits. The engineering controls
		p need to keep gas, vapour or dust concentrations below any lower explosive
		ts. Use explosion-proof ventilation equipment.
Hygiene measures		sh hands, forearms and face thoroughly after handling chemical products, before
- ygione measures		ing, smoking and using the lavatory and at the end of the working period.
		propriate techniques should be used to remove potentially contaminated clothing.
		sh contaminated clothing before reusing. Ensure that eyewash stations and
	safe	ety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

 Hand protection
 Recommended: EN374 A, EN374 B May be used (Short term exposure): Latex gloves. Nitrile gloves. Use gloves only once. Gloves should be replaced regularly and if there is any sign of damage to the glove material. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

Respiratory protection	 Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended: organic vapour filter (Type A) Additional information: In situations where misting or flying may occur, use appropriate certified respirators. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1 Information on basic phy	sical and chemical properties
Appearance	
Physical state	: Liquid.
Colour	: Black.
Odour	: Not available.
Odour threshold	: Estimated.: ≥ 11 ppm (propan-1-ol).
рН	: Not applicable.
Melting point/freezing point	: Estimated.: ≤ -78 °C (pentan-2-one).
Initial boiling point and boiling range	: 78 °C [OECD 103]
Flash point	: 8 °C [ASTM D 56]
Evaporation rate	: Estimated.: ≤ 2 [butyl acetate = 1] (pentan-2-one).
Flammability (solid, gas)	: Not applicable. (Liquid)
Upper/lower flammability or explosive limits	 Estimated.: ≥ 2 % (pentan-2-one). Estimated.: ≤ 19 % (ethanol).
Vapour pressure	: Estimated.: ≤ 6 kPa (43 mm Hg) at 20°C (ethanol).
Vapour density	: Estimated.: ≥ 1.6 [Air = 1] (ethanol).
Relative density	: 0.82 [OECD 109]
Solubility(ies)	: Not available.
Partition coefficient: n- octanol/water	: Not applicable.
Auto-ignition temperature	: Estimated.: ≥ 400 °C [DIN 51794] (propan-1-ol).
Decomposition temperature	: Thermally stable.
Viscosity	: Not available.
Explosive properties	: Not applicable. Not classified.
Oxidising properties	: Not applicable. Not classified.
Particle characteristics	
Median particle size	: Not applicable.
9.2 Other information	
Volatility (w/w)	: 86 %.
VOC Volatility (w/w)	: 86 %.

SECTION 10: Stability and reactivity

10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability

The product is stable.

10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid

Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

10.5 Incompatible materials

Reactive or incompatible with the following materials: oxidising materials

10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
ethanol	LC50 Inhalation Vapour	Rat	>117 mg/l	4 hours
	LD50 Dermal	Rabbit	>15800 mg/kg	-
	LD50 Oral	Rat	10470 mg/kg	-
propan-1-ol	LCLo Inhalation Vapour	Rat	51.91 mg/l	8 hours
	LD50 Dermal	Rabbit	4032 mg/kg	-
	LD50 Oral	Rat	5400 mg/kg	-
pentan-2-one	LCLo Inhalation Vapour	Rat	>25.5 mg/l	4 hours
	LD50 Dermal	Rabbit	6500 mg/kg	-
	LD50 Oral	Rat	1600 to 3200 mg/kg	-
Isopropyl alcohol	LCLo Inhalation Vapour	Rat	>24.6 mg/l	6 hours
1 19	LD50 Dermal	Rabbit	12.9 g/kg	-
	LD50 Oral	Rat	5.84 g/kg	-
Amines, coco alkyl, ethoxylated	LD50 Oral	Rat	750 mg/kg	-
hydrogen bis[1-[(2-hydroxy-5-nitrophenyl)	LDLo Oral	Rat	>5000 mg/kg	-
azo]-2-naphtholato(2-)]chromate(1-)				
hydrogen bis[1-[(2-hydroxy-4-nitrophenyl) azo]-2-naphtholato(2-)]chromate(1-)	LDLo Oral	Rat	>5000 mg/kg	-
hydrogen [1-[(2-hydroxy-4-nitrophenyl)azo]	LDLo Oral	Rat	>5000 mg/kg	-
-2-naphtholato(2-)][1-[(2-hydroxy-				
5-nitrophenyl)azo]-2-naphtholato(2-)]				
chromate(1-)				

Conclusion/Summary

: Not classified. No known significant effects or critical hazards.

Acute toxicity estimates

Route	ATE value
Oral	13896.87 mg/kg

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
ethanol	Eyes - Irritant Skin - Primary dermal irritation index (PDII)	Rabbit Rabbit	- 0	- 4 hours	21 days 14 days

Conclusion/Summary

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Skin

- Eyes
- : Causes mild skin irritation.
- : Causes serious eye damage.
 - Net election No.
- Respiratory
- : Not classified. No known significant effects or critical hazards.

Sensitisation

Product/ingredient name	Route of exposure	Species	Result
ethanol	Respiratory	Rat	Not sensitizing
	skin	Mouse	Not sensitizing

Conclusion/Summary

Skin

Respiratory

: Not classified. No known significant effects or critical hazards.

: Not classified. No known significant effects or critical hazards.

Mutagenicity

Product/ingredient name	Test	Experiment	Result
ethanol	OECD 474	Experiment: In vivo Subject: Mammalian-Animal	Negative
	OECD 474	Experiment: In vivo Subject: Mammalian-Animal	Negative
Conclusion/Summary : N	ot classified. No known signifi	cant effects or critical hazards.	
Carcinogenicity			
Conclusion/Summary : N	ot classified. No known signifi	cant effects or critical hazards.	

Reproductive toxicity

Conclusion/Summary : Not classified. No known significant effects or critical hazards.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
propan-1-ol	Category 3	-	Narcotic effects Narcotic effects
Isopropyl alcohol	Category 3	-	Narcolic ellecis

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Conclusion/Summary : Not classified. No known significant effects or critical hazards.

Potential chronic health effects, Other

Product/ingredient name	Result	Species	Dose	Exposure
ethanol	Sub-chronic NOAEL Oral	Rat	1730 mg/kg	90 days

Conclusion/Summary : No known significant effects or critical hazards.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
ethanol	Acute EC50 275 mg/l Fresh water	Algae - Chlorella vulgaris	72 hours
r	Acute LC50 5012 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	48 hours
	Acute LC50 11200 mg/l Fresh water	Fish - oncorhynchus mykiss	24 hours
	Chronic EC10 11.5 mg/l Fresh water	Algae - Chlorella vulgaris	72 hours
	Chronic NOEC 79 mg/l Marine water	Crustaceans - Palaemonetes pugio	12 days
	Chronic NOEC 9.6 mg/l	Daphnia - daphnia magna	10 days
	Chronic NOEC 250 mg/l Fresh water	Fish - Danio rerio - Embryo	120 hours
propan-1-ol	Acute EC50 9170 mg/l Fresh water	Algae - Pseudokirchnerella subcapitata	48 hours
	Acute LC50 4480000 µg/l Fresh water	Fish - Fathead minnow - Pimephales promelas	96 hours
	Chronic NOEC 1150 mg/l Fresh water	Algae - Chlorella pyrenoidosa	48 hours
	Chronic NOEC >100 mg/l Fresh water	Daphnia - Daphnia magna	21 days
pentan-2-one	Acute EC50 >150 mg/l Fresh water	Algae - Pseudokirchnerella subcapitata	72 hours
	Acute EC50 >1000 mg/l Fresh water	Daphnia - Daphnia magna	96 hours
	Acute LC50 1240000 µg/l Fresh water	Fish - Fathead minnow - Pimephales promelas	96 hours

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	Chronic EC50 73.77 mg/l Fresh water	Algae - Pseudokirchnerella	72 hours
		subcapitata	
Isopropyl alcohol	Acute EC50 >1800 mg/l Fresh water	Algae - Scenedesmus quadricauda	7 days
		quauncauda	
	Acute LC50 9640000 µg/l Fresh water	Fish - Fathead minnow -	96 hours
		Pimephales promelas	
	Chronic LOAEL 1800 mg/l Fresh water	Algae - Scenedesmus	7 days
		quadricauda	

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
ethanol propan-1-ol	-	-	Readily Readily
pentan-2-one	-	-	Readily
Isopropyl alcohol	-	-	Readily

Conclusion/Summary : Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
ethanol	-0.35	-	Low
propan-1-ol	0.2	-	Low
pentan-2-one	0.91	-	Low
Isopropyl alcohol	0.05	-	Low

12.4 Mobility in soil	
Soil/water partition	: Not available.
coefficient (Koc)	
Mobility	: Not available.

12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	Р	В	т	vPvB	vP	vB
ethanol	No	N/A	N/A	No	N/A	N/A	N/A
propan-1-ol	No	N/A	N/A	No	N/A	N/A	N/A
pentan-2-one	No	N/A	N/A	No	N/A	N/A	N/A
propan-2-ol	No	N/A	N/A	No	N/A	N/A	N/A
Amines, coco alkyl, ethoxylated	No	N/A	N/A	No	N/A	N/A	N/A
octamethylcyclotetrasiloxane	SVHC	Specified	Specified	Specified	SVHC	Specified	Specified
	(Recommended)				(Recommended)		

12.6 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Packaging

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Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions

SECTION 14: Transport information

: None.

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number	UN1210	UN1210	UN1210	UN1210
14.2 UN proper shipping name	Printing Ink	Printing Ink	Printing Ink	Printing Ink
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	II	11	II	II
14.5 Environmental hazards	No.	No.	No.	No.
Additional information	<u>Special provisions</u> 640 (C) <u>Tunnel code</u> (D/E)	The product is only regulated as an environmentally hazardous substance when transported in tank vessels. Special provisions 640 (C)	-	-

14.6 Special precautions for user

No special measures required.

14.7 Transport in bulk according to IMO instruments

Not available.

SECTION 15: Regulatory information

Tariff Code - harmonized system	: 8443.99 Printing machinery used for printing by means of plates, cylinders and other printing components of heading 8442; other printers, copying machines and facsimile machines, whether or not combined; parts and accessories thereof: Other: EU90.00 Other. USA20.10
Heavy Metals	: Total concentration: Pb, Hg, Cd, Cr(VI) < 100 ppm

Chemical Weapons Convention List	Chemical Weapons Convention List	Chemical Weapons Convention List	
Schedule I Chemicals	Schedule II Chemicals	Schedule III Chemicals	
Not listed	Not listed	Not listed	

SECTION 16: Other information

Revision comments	: \checkmark Indicates information that has changed from previously issued version.
Abbreviations and acronyms	 ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification

Classification	Justification
	On basis of test data Calculation method Calculation method Calculation method

Notice to reader

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