# SAFETY DATA SHEET

Videojet<sup>®</sup> Ink M220-F



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

### **1.1 Product identifier**

Product name	:	M220-F
CAS number	:	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 Pty Ltd, 1 Rhodes St, West Ryde, NSW 2114, Australia Tel: +61 1300 018 330 Email: sales@tronics.com.au

Aldus - Tronics (NZ) Ltd, Unit 3, 23-25 Highbrook Dr, East Tamaki, Auckland, New Zealand Tel: +64 9 588 4072 Email: sales@tronics.co.nz

1.4 Emergency telephone number			
Medical	SE (AU): +61 1800 686 951 / +61 02 8036 3166 3E Code: 334466		
Transporters	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 Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] 1) Highly flammable liquid and vapour. 2) Causes serious eye irritation. 3) May damage fertility or the unborn child. 4) May cause drowsiness or dizziness. Ingredients of unknown : Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 0%. toxicity Ingredients of unknown : Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 2% ecotoxicity

### 2.2 Label elements



Danger. Highly flammable liquid and vapour. Causes serious eye irritation. May damage the unborn child. May cause drowsiness or dizziness. Obtain special instructions before use. Use personal protective equipment as required. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. IF exposed or concerned: Get medical attention.

Hazardous ingredients	: butanone (CAS 78-93-3, EC 201-159-0); C.I. Solvent Black 29 (CAS 117527-94-3, EC 938-781-3).
Supplemental label elements	: Not applicable.
2.3 Other hazards	

Product meets the criteria	: This mixture does not contain any substances that are assessed to be a PBT or a
for PBT or vPvB according	vPvB.
to Regulation (EC) No.	
1907/2006, Annex XIII	
Other hazards which do	: None known.

# **SECTION 3: Composition/information on ingredients**

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#### Substance/mixture

not result in classification

Product/ingredient name	Identifiers	%	Classification	Туре
butanone	78-93-3	85 - <95	FLAMMABLE LIQUIDS - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3	[1] [2]
C.I. Solvent Black 29 (EC# 938-781-3) 2-butoxyethanol	117527-94-3 111-76-2	3 - <7 1 - <3	REPRODUCTIVE TOXICITY - Category 1B FLAMMABLE LIQUIDS - Category 4 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 3 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A	[1] [2] [1] [2]

Type

[1] Substance classified with a health or environmental hazard

[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

### Chemical name: Abbreviations and acronyms

Product/ingredient name	Chemical name	
1) REPRODUCTIVE TOXICITY - Category 1B	[1] [2]	
SECTION 4: First aid measures		

### 4.1 Description of first aid measures

#### Eye contact

: 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. Get medical attention.

Inhalation	: 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. Get medical attention. If necessary, call a poison center or physician. 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	: 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. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: 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. Get medical attention. If necessary, call a poison center or 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 and effects, both acute and delayed

Potential acute health	<u>i effects</u>
Eye contact	: Causes serious eye irritation.
Inhalation	: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: Can cause central nervous system (CNS) depression.
Over-exposure signs/	<u>symptoms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced foetal weight increase in foetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations

### 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 media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
5.2 Special hazards arising fi	rom the substance or mixture
Hazards from the substance or mixture	<ul> <li>Highly flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.</li> </ul>
Hazardous combustion products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides
5.3 Advice for firefighters	
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if 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 equipment for fire-fighters	<ul> <li>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</li> </ul>
<b>SECTION 6: Acciden</b>	tal release measures
6.1 Personal precautions, pro	otective equipment and emergency procedures
<b>F</b>	. No estimate the telescontraction and personal viels arout the statistical training

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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. Avoid breathing 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).
6.3 Methods and material for	со	ntainment 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 spilt 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). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. 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
putanone	Safe Work Australia (Australia, 10/2022). STEL: 890 mg/m³ 15 minutes.
	STEL: 300 ppm 15 minutes. TWA: 445 mg/m <sup>3</sup> 8 hours.
	TWA: 150 ppm 8 hours.
C.I. Solvent Black 29 (EC# 938-781-3)	<b>Safe Work Australia (Australia, 1/2014).</b> TWA: 0.5 mg/m³, (as Cr) 8 hours.
2-butoxyethanol	Safe Work Australia (Australia, 10/2022). Absorbed through skin. TWA: 96.9 mg/m <sup>3</sup> 8 hours. TWA: 20 ppm 8 hours. STEL: 50 ppm 15 minutes.

		STEL: 242 mg/m <sup>3</sup> 15 minutes.
Biological exposure indices		
No exposure indices known.		
Recommended monitoring procedures	r	Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
8.2 Exposure controls		
Appropriate engineering controls	۱ د ع	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive imits. Use explosion-proof ventilation equipment.
Hygiene measures	e /	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	ຊ ( ເ	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	N Q f	Recommended: 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	a r F <i>f</i> a a	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	t	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 physical and chemical properties

Appearance	
Physical state	: Liquid.
Colour	: Black.
Odour	: Not available.
Odour threshold	: Estimated.: ≥ 0.1 ppm (2-butoxyethanol).
рН	: Not applicable.
Melting point/freezing point	: Estimated.: ≤ -70 °C [IP 16/97] (2-butoxyethanol).
Initial boiling point and boiling range	: Estimated.: ≥ 80 °C (butanone).

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Flash point	: -9 °C [ASTM D 56]
Evaporation rate	: Estimated.: $\leq 7$ [butyl acetate = 1] (butanone).
Flammability (solid, gas)	: Not applicable. (Liquid)
Upper/lower flammability or explosive limits	: Estimated.: ≥ 2 % (butanone). Estimated.: ≤ 12 % (butanone).
Vapour pressure	: Estimated.: ≤ 11 kPa (79 mm Hg) at 20°C (butanone).
Vapour density	: Estimated.: ≥ 2 [Air = 1] (butanone).
Relative density	: 0.83 [OECD 109]
Solubility(ies)	: Not available.
Partition coefficient: n- octanol/water	: Not applicable.
Auto-ignition temperature	: Estimated.: ≥ 230 °C [DIN 51794] (2-butoxyethanol).
Decomposition temperature	: Thermally stable.
Viscosity	: Not available.
Explosive properties	: Not applicable. Not classified.
<b>Oxidising properties</b>	: Not applicable. Not classified.
Particle characteristics	
Median particle size	: Not applicable.
9.2 Other information	
Volatility (w/w)	: 92 %.
VOC Volatility (w/w)	: 92 %.

### **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
butanone	LC50 Inhalation Vapour	Rat	23.5 mg/l	8 hours
	LD50 Dermal	Rabbit - Male	>8000 mg/kg	-
	LD50 Oral	Rat	3460 mg/kg	-
C.I. Solvent Black 29 (EC# 938-781-3)	LDLo Dermal	Rat	>2000 mg/kg	-
, , , , , , , , , , , , , , , , , , ,	LDLo Oral	Rat	>5000 mg/kg	-
2-butoxyethanol	LD50 Oral	Rat	1480 mg/kg	-
	LDLo Dermal	Rat	>2000 mg/kg	-

# Conclusion/Summary

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

# Acute toxicity estimates

Route	ATE value
Oral	148000 mg/kg
Inhalation (vapours)	300 mg/l

### Irritation/Corrosion

Not available.

### **Conclusion/Summary**

Skin : Caus	ses mild skin irritation.
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- **Eyes** : Causes serious eye irritation.
- **Respiratory** : Not classified. No known significant effects or critical hazards.

### **Sensitisation**

Product/ingredient name		Route of exposure	Species	Result
butanone C.I. Solvent Black 29 (EC# 938-781-3)		skin skin	Guinea pig Guinea pig	Not sensitizing Not sensitizing
Conclusion/Summary				
Skin	Not	classified. No known si	gnificant effe	ects or critical hazards.
Respiratory	Not	classified. No known si	gnificant effe	ects or critical hazards.
Mutagenicity				

Conclusion/Summary		Not classified.	No known significant effects or critical hazards.	
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### Conclusion/Summary Reproductive toxicity

**Carcinogenicity** 

Product/ingredient name	Maternal toxicity	Fertility	Developmental toxin	Species	Dose	Exposure
C.I. Solvent Black 29 (EC# 938-781-3)	Positive	Negative	Equivocal	Rat	Oral: 500 mg/ kg	-

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

**Conclusion/Summary** : May damage the unborn child.

### Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
butanone	Category 3	-	Narcotic effects

### 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

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

# **SECTION 12: Ecological information**

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
putanone	Acute EC50 2029 mg/l Fresh water	Algae - Pseudokirchnerella subcapitata	96 hours
	Acute EC50 308 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 2993 mg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 1240 mg/l Fresh water	Algae - Pseudokirchnerella subcapitata	96 hours
C.I. Solvent Black 29 (EC# 938-781-3)	Acute EC50 >100 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Acute EC50 >1000 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	24 hours
	Acute LC50 >100 mg/l Fresh water	Fish - Danio rerio	96 hours
2-butoxyethanol	Acute EC50 1840 mg/l	Algae - Pseudokirchnerella subcapitata	72 hours
	Acute EC50 >1000 mg/l Fresh water	Daphnia - Water flea - Daphnia magna	48 hours
	Chronic NOEC 286 mg/l	Algae - Pseudokirchnerella subcapitata	72 hours

**Conclusion/Summary** : Not available.

### 12.2 Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
butanone C.I. Solvent Black 29 (EC# 938-781-3)	-	-	Readily Not readily
2-butoxyethanol	-	-	Readily

**Conclusion/Summary** : Not available.

### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
butanone	0.3	-	Low
2-butoxyethanol	0.81	-	Low

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

### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

### 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

### 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	11	II
14.5 Environmental hazards	No.	No.	No.	No.
Additional information	Special provisions 640 (C) Tunnel code (D/E)	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 Heavy Metals	USA EU	11 Printing ink: Black. 90.60 .90.90 concentration: Pb, Hg, Cd, Cr(VI) < 10	0 ppm
Chemical Weapons Conve Schedule I Chemi		Chemical Weapons Convention List Schedule II Chemicals	Chemical Weapons Convention List Schedule III Chemicals
Not listed		Not listed	Not listed

# **SECTION 16: Other information**

<b>Revision comments</b>	: 🔽 Indicates information that has changed from previously issued version.
Abbreviations and acronyms	<ul> <li>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</li> </ul>

Procedure used to derive the classification

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

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.