

# SAFETY DATA SHEET

**Videojet®**  
**Make-Up Fluid**  
**V715-D**



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

### 1.1 Product identifier

**Product name** : V715-D  
**CAS number** : Not applicable.

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

**Material uses** : Industrial applications: Make-Up fluid for use in a continuous ink jet process.  
Replaces solvents lost through evaporation during normal ink drop recycling process.

### 1.3 Details of the supplier of the safety data sheet

Website: [www.videojet.com](http://www.videojet.com)  
Email: [FluidsSupport@videojet.com](mailto: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](mailto: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](mailto:sales@tronics.co.nz)

### 1.4 Emergency telephone number

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

**Transporters** ☎ 3E (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)	Toxic if swallowed.
3)	Toxic in contact with skin.
4)	Toxic if inhaled.
5)	Causes skin irritation.
6)	Causes serious eye irritation.
7)	Causes damage to organs.
8)	Harmful to aquatic life.

- 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: 0%.

**2.2 Label elements**



Danger. Highly flammable liquid and vapour. Toxic if swallowed, in contact with skin or if inhaled. Causes serious eye irritation. Causes skin irritation. Causes damage to organs. Do not breathe vapour. Wear protective gloves. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. IF SWALLOWED: Immediately call a POISON CENTER or physician. IF exposed: Call a POISON CENTER or physician. Keep container tightly closed. Store in a well-ventilated place.

- Hazardous ingredients** : methanol (CAS 67-56-1, EC 200-659-6).
- Supplemental label elements** : Not applicable.

**2.3 Other hazards**

- Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII** : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
- Other hazards which do not result in classification** : None known.
- Additional guidance** : Wear eye or face protection. Avoid release to the environment. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If eye irritation persists: Get medical attention.

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

**Substance/mixture** :

Product/ingredient name	Identifiers	%	Classification	Type
methanol	67-56-1	85 - <95	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 1	[1] [2]
ammonia	1336-21-6	1 - <3	SKIN CORROSION/IRRITATION - Category 1B SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1	[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.

## 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. If necessary, call a poison center or physician.
- 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** : Wash with plenty of soap and 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. If necessary, call a poison center or 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. 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 effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : Toxic if inhaled. Causes damage to organs following a single exposure if inhaled.
- Skin contact** : Toxic in contact with skin. Causes damage to organs following a single exposure in contact with skin. Causes skin irritation.
- Ingestion** : Toxic if swallowed. Causes damage to organs following a single exposure if swallowed.

#### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness
- Ingestion** : No specific data.

### 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 from the substance or mixture

**Hazards from the substance or mixture** : 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. This material is harmful to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**Hazardous combustion products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen 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** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective 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 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). 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
methanol	<b>Safe Work Australia (Australia, 10/2022). Absorbed through skin.</b> STEL: 328 mg/m <sup>3</sup> 15 minutes. STEL: 250 ppm 15 minutes. TWA: 262 mg/m <sup>3</sup> 8 hours. TWA: 200 ppm 8 hours.
ammonia	<b>Safe Work Australia (Australia, 10/2022). [Ammonia]</b> STEL: 24 mg/m <sup>3</sup> 15 minutes. STEL: 35 ppm 15 minutes. TWA: 17 mg/m <sup>3</sup> 8 hours. TWA: 25 ppm 8 hours.

#### Biological exposure indices

No exposure indices known.

**Recommended monitoring procedures** : 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** : 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 limits. Use explosion-proof ventilation equipment.
- Hygiene measures** : 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** : 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  
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 AX), ammonia filter (Type K)
- 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 physical and chemical properties

#### Appearance

- Physical state** : Liquid.
- Colour** : Clear.
- Odour** : Not available.
- Odour threshold** : Estimated.:  $\geq 17$  ppm (ammonia).
- pH** : Not applicable.
- Melting point/freezing point** : Estimated.:  $\leq -58$  °C (ammonia).
- Initial boiling point and boiling range** : Estimated.:  $\geq 38$  °C (ammonia).
- Flash point** : 11 °C [ASTM D 56]
- Evaporation rate** : Estimated.:  $\leq 2$  [butyl acetate = 1] (methanol).
- Flammability (solid, gas)** : Not applicable. ( Liquid )
- Upper/lower flammability or explosive limits** : Estimated.:  $\geq 6$  % (methanol).  
Estimated.:  $\leq 44$  % (methanol).
- Vapour pressure** : Estimated.:  $\leq 48$  kPa (360 mm Hg) at 20°C (ammonia).

<b>Vapour density</b>	: Estimated.: $\geq 0.6$ [Air = 1] (ammonia).
<b>Relative density</b>	: 0.805 [OECD 109]
<b>Solubility(ies)</b>	: Not available.
<b>Partition coefficient: n-octanol/water</b>	: Not applicable.
<b>Auto-ignition temperature</b>	: Estimated.: $\geq 455$ °C [DIN 51794] (methanol).
<b>Decomposition temperature</b>	: Thermally stable.
<b>Viscosity</b>	: Not available.
<b>Explosive properties</b>	: Not applicable. Not classified.
<b>Oxidising properties</b>	: Not applicable. Not classified.
<b>Particle characteristics</b>	
<b>Median particle size</b>	: Not applicable.

## 9.2 Other information

<b>Volatility (w/w)</b>	: 99 %.
<b>VOC Volatility (w/w)</b>	: 95 %.

## 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
methanol	LC50 Inhalation Vapour	Rat	87.5 mg/l	6 hours
	LD50 Dermal	Rabbit	17100 mg/kg	-
ammonia	LDLo Oral	Rat	>2528 mg/kg	-
	LD50 Oral	Rat	350 mg/kg	-

**Conclusion/Summary** : Toxic if inhaled. Toxic in contact with skin. Toxic if swallowed.

#### Acute toxicity estimates

Route	ATE value
Oral	106.16 mg/kg
Dermal	318.47 mg/kg
Inhalation (vapours)	3.18 mg/l

### Irritation/Corrosion

Not available.

### **Conclusion/Summary**

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

### Sensitisation

### **Conclusion/Summary**

- Skin** : Not classified. No known significant effects or critical hazards.  
**Respiratory** : Not classified. No known significant effects or critical hazards.

### Mutagenicity

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

### Carcinogenicity

- Conclusion/Summary** : Not classified. No known significant 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
methanol	Category 1	-	optic nerve
ammonia	Category 3	-	Respiratory tract irritation

### 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
methanol	Acute EC50 22000 mg/l Fresh water	Algae - <i>Pseudokirchnerella subcapitata</i>	96 hours
	Acute EC50 18260 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	96 hours
	Acute EC50 12700000 µg/l Fresh water	Fish - Bluegill - <i>Lepomis macrochirus</i> - Juvenile (Fledgling, Hatchling, Weanling)	96 hours

- Conclusion/Summary** : Not available.

### **12.2 Persistence and degradability**

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
methanol	-	-	Readily
ammonia	-	-	Readily

- Conclusion/Summary** : Not available.

### **12.3 Bioaccumulative potential**



Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
methanol	-0.77	<10	Low

#### 12.4 Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**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** : None.

### SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
<b>14.1 UN number</b>	UN1230	UN1230	UN1230	UN1230
<b>14.2 UN proper shipping name</b>	Methanol solution	Methanol solution	Methanol solution	Methanol solution
<b>14.3 Transport hazard class(es)</b>	3 (6.1) 	3 (6.1) 	3 (6.1) 	3 (6.1) 
<b>14.4 Packing group</b>	II	II	II	II
<b>14.5 Environmental hazards</b>	No.	No.	No.	No.
<b>Additional information</b>	-	The product is only regulated as an environmentally hazardous substance when transported in tank vessels.	-	-

#### 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** : 3814.00 Organic composite solvents and thinners, not elsewhere specified or included.  
 USA ...50.90  
 EU ...90.99

**Heavy Metals** : Total concentration: Pb, Hg, Cd, Cr(VI) < 100 ppm

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

**SECTION 16: Other information**

- Revision comments** :  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 Calculation method 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.