

# SAFETY DATA SHEET

Videojet®  
Ink  
V4262-L



|                                 |                    |
|---------------------------------|--------------------|
| Page                            | : 1 / 11           |
| Version                         | : AU ENGLISH       |
| Version number                  | : 6.02             |
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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Product name : V4262-L  
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 continuous ink jet 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) | Causes serious eye irritation.                     |
| 3) | May cause drowsiness or dizziness.                 |
| 4) | 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: 0%.

## 2.2 Label elements



Danger. Highly flammable liquid and vapour. Causes serious eye irritation. May cause drowsiness or dizziness. Harmful to aquatic life with long lasting effects. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**Hazardous ingredients** : isopropyl acetate (CAS 108-21-4, EC 203-561-1).

**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** : Avoid breathing vapour. Wear eye or face protection. Avoid release to the environment. IF INHALED: Call a POISON CENTER or physician if you feel unwell. If eye irritation persists: Get medical attention. Keep container tightly closed. Store in a well-ventilated place.

## SECTION 3: Composition/information on ingredients

**Substance/mixture** :

| Product/ingredient name  | Identifiers  | %        | Classification   | Type    |
|--|--------------|----------|--|---------|
| ethanol  | 64-17-5      | 35 - <45 | FLAMMABLE LIQUIDS - Category 2<br>SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2B  | [1] [2] |
| isopropyl acetate  | 108-21-4     | 25 - <35 | FLAMMABLE LIQUIDS - Category 2<br>SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A<br>SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3  | [1] [2] |
| Chromium, 1-[2-[5-(1,1-dimethylpropyl)-2-hydroxy-3-nitrophenyl]diazanyl]-2-naphthalenol 1-[2-[2-hydroxy-4(or 5)-nitrophenyl]diazanyl]-2-naphthalenol ammonium sodium complexes | 1029600-34-7 | 5 - <10  | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2  | [1]     |
| propyl acetate   | 109-60-4     | 1 - <3   | FLAMMABLE LIQUIDS - Category 2<br>SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A<br>SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3<br>SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 3    | [1] [2] |
| Isopropyl alcohol  | 67-63-0      | 1 - <3   | FLAMMABLE LIQUIDS - Category 2<br>SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A<br>SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3  | [1] [2] |
| butyl lactate  | 138-22-7     | 1 - <3   | FLAMMABLE LIQUIDS - Category 4<br>SKIN CORROSION/IRRITATION - Category 2<br>SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1<br>SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 | [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.
- 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. Get medical attention if symptoms occur. 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.

### 4.2 Most important symptoms and effects, both acute and delayed

#### Potential acute health effects

- 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/symptoms

- 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
- Skin contact** : No specific data.
- 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 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 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. 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). 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 ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. 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                 | <b>Safe Work Australia (Australia, 10/2022).</b><br>TWA: 1880 mg/m <sup>3</sup> 8 hours.<br>TWA: 1000 ppm 8 hours.   |
| isopropyl acetate       | <b>Safe Work Australia (Australia, 10/2022).</b><br>STEL: 1290 mg/m <sup>3</sup> 15 minutes.<br>STEL: 310 ppm 15 minutes.<br>TWA: 1040 mg/m <sup>3</sup> 8 hours.<br>TWA: 250 ppm 8 hours. |
| propyl acetate          | <b>Safe Work Australia (Australia, 10/2022).</b><br>STEL: 1040 mg/m <sup>3</sup> 15 minutes.<br>STEL: 250 ppm 15 minutes.<br>TWA: 835 mg/m <sup>3</sup> 8 hours.                           |

|                   |  |
|-------------------|--|
| Isopropyl alcohol | TWA: 200 ppm 8 hours.<br><b>Safe Work Australia (Australia, 10/2022).</b><br>STEL: 1230 mg/m <sup>3</sup> 15 minutes.<br>STEL: 500 ppm 15 minutes.<br>TWA: 983 mg/m <sup>3</sup> 8 hours.<br>TWA: 400 ppm 8 hours. |
| butyl lactate     | <b>Safe Work Australia (Australia, 10/2022).</b><br>TWA: 30 mg/m <sup>3</sup> 8 hours.<br>TWA: 5 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, EN374 I  
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 physical and chemical properties

#### Appearance

|   |   |
|---|---|
| <b>Physical state</b>                               | : Liquid.   |
| <b>Colour</b>                                       | : Black.  |
| <b>Odour</b>  | : Not available.  |
| <b>Odour threshold</b>                              | : Estimated.: $\geq 0$ ppm (butyl lactate).                                     |
| <b>pH</b>   | : Not applicable.   |
| <b>Melting point/freezing point</b>                 | : Estimated.: $\leq -43$ °C (butyl lactate).                                    |
| <b>Initial boiling point and boiling range</b>      | : Estimated.: $\geq 78$ °C (ethanol).   |
| <b>Flash point</b>                                  | : 4 °C [ASTM D 56]  |
| <b>Evaporation rate</b>                             | : Estimated.: $\leq 4$ [butyl acetate = 1] (isopropyl acetate).                 |
| <b>Flammability (solid, gas)</b>                    | : Not applicable. ( Liquid )  |
| <b>Upper/lower flammability or explosive limits</b> | : Estimated.: $\geq 1$ % (butyl lactate).<br>Estimated.: $\leq 19$ % (ethanol). |
| <b>Vapour pressure</b>                              | : Estimated.: $\leq 7$ kPa (49 mm Hg) at 20°C (isopropyl acetate).              |
| <b>Vapour density</b>                               | : Estimated.: $\geq 1.6$ [Air = 1] (ethanol).                                   |
| <b>Relative density</b>                             | : 0.89 [OECD 109]   |
| <b>Solubility(ies)</b>                              | : Not available.  |
| <b>Partition coefficient: n-octanol/water</b>       | : Not applicable.   |
| <b>Auto-ignition temperature</b>                    | : Estimated.: $\geq 380$ °C [DIN 51794] (propyl acetate).                       |
| <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>     | : 84 %. |
| <b>VOC Volatility (w/w)</b> | : 84 %. |

## 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             | -        |
| isopropyl acetate       | LC50 Inhalation Vapour          | Rat - Female | 50600 mg/m <sup>3</sup> | 8 hours  |
|                         | LD50 Dermal                     | Rabbit       | 17.4 g/kg               | -        |
|                         | LD50 Oral                       | Rat - Male   | 6750 mg/kg              | -        |
| propyl acetate          | LC50 Inhalation Vapour          | Rat          | 32 mg/l                 | 4 hours  |
|                         | LD50 Dermal                     | Rabbit       | >17800 mg/kg            | -        |
|                         | LD50 Oral                       | Rat          | 8700 mg/kg              | -        |
| Isopropyl alcohol       | LCLo Inhalation Vapour          | Rat          | >24.6 mg/l              | 6 hours  |
|                         | LD50 Dermal                     | Rabbit       | 12.9 g/kg               | -        |
|                         | LD50 Oral                       | Rat          | 5.84 g/kg               | -        |
| butyl lactate           | LCLo Inhalation Dusts and mists | Rat          | >5.14 mg/l              | 4 hours  |
|                         | LDLo Dermal                     | Rat          | >2000 mg/kg             | -        |
|                         | LDLo Oral                       | Rat          | >2000 mg/kg             | -        |

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

Not classified.

#### Irritation/Corrosion

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

#### Conclusion/Summary

**Skin** : Causes mild skin irritation.

**Eyes** : Causes serious eye irritation.

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

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

#### Mutagenicity

| Product/ingredient name | Test     | Experiment                                       | Result   |
|-------------------------|----------|--|----------|
| ethanol                 | OECD 474 | Experiment: In vivo<br>Subject: Mammalian-Animal | Negative |
|                         | OECD 474 | Experiment: In vivo<br>Subject: Mammalian-Animal | Negative |

**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                |
|-------------------------|------------|-------------------|------------------------------|
| isopropyl acetate       | Category 3 | -                 | Narcotic effects             |
| propyl acetate          | Category 3 | -                 | Narcotic effects             |
| Isopropyl alcohol       | Category 3 | -                 | Narcotic effects             |
| butyl lactate           | 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**

| 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 - <i>Chlorella vulgaris</i>   | 72 hours           |
|                         | Acute LC50 5012 mg/l Fresh water                                      | Daphnia - <i>Ceriodaphnia dubia</i>   | 48 hours           |
|                         | Acute LC50 11200 mg/l Fresh water                                     | Fish - <i>oncorhynchus mykiss</i>   | 24 hours           |
|                         | Chronic EC10 11.5 mg/l Fresh water                                    | Algae - <i>Chlorella vulgaris</i>   | 72 hours           |
|                         | Chronic NOEC 79 mg/l Marine water                                     | Crustaceans - <i>Palaemonetes pugio</i>                                     | 12 days            |
| isopropyl acetate       | Chronic NOEC 9.6 mg/l   | Daphnia - <i>daphnia magna</i>  | 10 days            |
|                         | Chronic NOEC 250 mg/l Fresh water                                     | Fish - <i>Danio rerio</i> - Embryo  | 120 hours          |
|                         | Acute EC50 >165 mg/l Fresh water                                      | Algae - <i>Scenedesmus quadricauda</i>                                      | 8 days             |
|                         | Acute LC50 110 mg/l Marine water                                      | Crustaceans - Brine shrimp - <i>Artemia salina</i>                          | 48 hours           |
|                         | Acute LC50 400 mg/l Fresh water<br>Chronic EC10 >165 mg/l Fresh water | Fish - <i>Pimephales promelas</i><br>Algae - <i>Scenedesmus quadricauda</i> | 96 hours<br>8 days |
| propyl acetate          | Acute EC50 672 mg/l Fresh water                                       | Algae - <i>Pseudokirchnerella subcapitata</i>                               | 72 hours           |
|                         | Acute EC50 91.5 mg/l Fresh water                                      | Daphnia - <i>Daphnia magna</i>  | 48 hours           |
|                         | Acute LC50 60000 µg/l Fresh water                                     | Fish - Fathead minnow - <i>Pimephales promelas</i>                          | 96 hours           |
| Isopropyl alcohol       | Acute EC50 >1800 mg/l Fresh water                                     | Algae - <i>Scenedesmus quadricauda</i>                                      | 7 days             |
|                         | Acute LC50 9640000 µg/l Fresh water                                   | Fish - Fathead minnow - <i>Pimephales promelas</i>                          | 96 hours           |
|                         | Chronic LOAEL 1800 mg/l Fresh water                                   | Algae - <i>Scenedesmus quadricauda</i>                                      | 7 days             |
| butyl lactate           | Acute EC50 929 mg/l Fresh water                                       | Algae - <i>Selenastrum capricornutum</i>                                    | 96 hours           |
|                         | Acute EC50 320000 µg/l Fresh water                                    | Daphnia - Water flea - <i>Daphnia magna</i>                                 | 48 hours           |

**Conclusion/Summary** : Not available.

**12.2 Persistence and degradability**

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|-------------------------|-------------------|------------|------------------|
| ethanol                 | -                 | -          | Readily          |
| isopropyl acetate       | -                 | -          | Readily          |
| propyl acetate          | -                 | -          | Readily          |
| Isopropyl alcohol       | -                 | -          | Readily          |
| butyl lactate           | -                 | -          | Readily          |

**Conclusion/Summary** : Not available.

### 12.3 Bioaccumulative potential

| Product/ingredient name | LogP <sub>ow</sub> | BCF | Potential |
|-------------------------|--------------------|-----|-----------|
| Ethanol                 | -0.35              | -   | Low       |
| isopropyl acetate       | 1.3                | -   | Low       |
| propyl acetate          | 1.4                | -   | Low       |
| Isopropyl alcohol       | 0.05               | -   | 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>                  | UN1210   | UN1210   | UN1210  | UN1210   |
| <b>14.2 UN proper shipping name</b>    | Printing Ink   | Printing Ink   | Printing Ink  | Printing Ink   |
| <b>14.3 Transport hazard class(es)</b> | 3<br> | 3<br> | 3<br> | 3<br> |
| <b>14.4 Packing group</b>              | II   | II   | II  | II   |
| <b>14.5 Environmental hazards</b>      | No.  | No.  | No.   | No.  |
|  |  |  |   |  |

|                        |   |  |   |   |
|------------------------|---|--|---|---|
| Additional information | <b>Special provisions</b> 640 (C)<br><b>Tunnel code</b> (D/E) | The product is only regulated as an environmentally hazardous substance when transported in tank vessels.<br><b>Special provisions</b> 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** : 3215.11 Printing ink: Black.  
 USA ...90.60  
 EU ...10

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

|  |   |  |
|--|---|--|
| Chemical Weapons Convention List<br>Schedule I Chemicals<br>Not listed | Chemical Weapons Convention List<br>Schedule II Chemicals<br>Not listed | Chemical Weapons Convention List<br>Schedule III Chemicals<br>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<br>Calculation method<br>Calculation method<br>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.