

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product name** : M512

**Synonyms** : Product code: M512-12, M512L

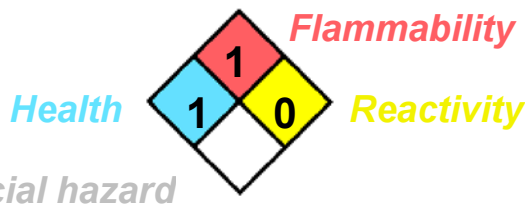
**Material uses** : Industrial applications: Ink for use in a drop-on-demand printing process.

**Emergency telephone number** : Medical: CALL RMPDC, USA (303) 623-5716  
Transporters: CALL CHEMTREC, USA (800)-424-9300

**Manufacturer** : Videojet Technologies Inc., 1500 Mittel Boulevard, Wood Dale, IL, 60191-1073 U.S.A  
Phone: 1-800-843-3610 Fax: 1-800-582-1343  
Videojet Technologies Europe BV., Strijkviertel 39, 3454 PJ De Meern, The Netherlands.  
Phone: 31-030-6693000 Fax: 31-030-6693060

## 2. HAZARDS IDENTIFICATION

**National Fire Protection Association (U.S.A.)** :



**Emergency overview** : ATTENTION! Avoid contact with eyes and skin. May be harmful if swallowed. If splashed in eyes flush with water. If contacts skin flush with water and wash with mild soap. If inhaled remove to fresh air. In medical emergency call Poison Control Center (USA 1-303-623-5716) and a physician. Read MSDS before using.

**Effects and symptoms**

<u>Chemical name</u>	<u>Effects and symptoms</u>
1) Distillates (petroleum), hydrotreated middle Gasoil - unspecified	Harmful: may cause lung damage if swallowed. Repeated exposure may cause skin dryness or cracking. Vapors may cause drowsiness and dizziness.
2) Carbon black	May cause cancer, based on animal data. (International Agency for Research on Cancer.)

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Hazardous ingredients**

<u>CAS number</u>	<u>Percent (%)</u>	<u>Chemical name</u>
1) 64742-46-7	65 - 80	Distillates (petroleum), hydrotreated middle Gasoil - unspecified
2) 1333-86-4	7 - 13	Carbon black

Occupational exposure limits, if available, are listed in section 8.

## 4. FIRST AID MEASURES

- Inhalation** : If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.
- Ingestion** : Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.
- Skin contact** : In case of contact, immediately flush skin with plenty of water while removing contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if symptoms appear.
- Eye contact** : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

## 5. FIRE-FIGHTING MEASURES

- Extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Special fire-fighting procedures** : In a fire or if heated, a pressure increase will occur and the container may burst.
- Unusual fire/explosion hazards** : 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.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon oxides
- Protection of 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.

## 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : 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 spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).
- Environmental precautions** : Avoid dispersal of spilled 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).
- Methods for cleaning up** : Stop leak if without risk. Move containers from spill area. Approach 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 spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

## 7. HANDLING AND STORAGE

- Handling** : Use only with adequate ventilation. Do not reuse container. Use suitable protective equipment (section 8). Refer to and follow equipment manual for operation and maintenance procedures.
- Storage** : 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.
- Packaging materials** : Use original container.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Occupational exposure limits

<u>Chemical name</u>	<u>Occupational exposure limits</u>
1) Distillates (petroleum), hydrotreated middle Gasoil - unspecified	No exposure limit value known.
2) Carbon black	1) United States ACGIH TWA 8 hours 3.5 mg/m <sup>3</sup> (2004) 2) United States OSHA TWA 8 hours 3.5 mg/m <sup>3</sup>

**Engineering controls** : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

### Personal protective equipment

<b>Respiratory system</b>	: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
<b>Skin and body</b>	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
<b>Hands</b>	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
<b>Eyes</b>	: 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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state</b>	: Liquid.
<b>Color</b>	: Black.
<b>Odor threshold</b>	: Highest known value: 100 ppm. Weighted average: 100 ppm.
<b>Boiling point</b>	: Lowest known value: 175 °C. Weighted average: 273 °C.
<b>Melting point</b>	: May start to solidify at the following temperature: 31 °C. Weighted average: 28 °C.
<b>Specific gravity</b>	: 0.88 (Water = 1)
<b>Vapor density</b>	: <1 (Air = 1)
<b>Vapor pressure</b>	: Highest known value: 0 mm Hg at 20°C. Weighted average: 0 mm Hg at 20°C.
<b>Evaporation rate (butyl acetate = 1)</b>	: Highest known value: <1.0. Weighted average: 0.0.
<b>Flash point</b>	: >120 °C.
<b>Auto-ignition temperature</b>	: Lowest known value: 230 °C. Weighted average: 445 °C.
<b>Flammable limits</b>	: Lowest known value: 1.0%. Highest known value: 19.0%.
<b>Volatility (w/w)</b>	: 7 %.
<b>VOC Volatility (w/w) - less exempt volatile.</b>	: 7 %.

## 10. STABILITY AND REACTIVITY

- Stability** : The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.
- Conditions to avoid** : No specific data.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11. TOXICOLOGICAL INFORMATION

### Chemical name

### Toxicological information

- 1) Distillates (petroleum), hydrotreated middle Gasoil - unspecified  
2) Carbon black
- Not available.
- 1) LD50 Oral Rat: >15400 mg/kg  
2) LD50 Dermal Rabbit: >3000 mg/kg

## 12. ECOLOGICAL INFORMATION

- Ecotoxicity** : No known significant effects or critical hazards.
- Heavy Metals** : Total concentration: Pb, Hg, Cd, Cr(VI) < 100 ppm
- California, VOC Content** : 64 grams volatile organic / liter less water or exempt volatile.

## 13. DISPOSAL CONSIDERATIONS

- Waste disposal** : Waste must be disposed of according to applicable regulations. Small quantities of waste may best be handled using a 'lab pack' service offered by a licensed waste disposal firm.

## 14. TRANSPORT INFORMATION

- Proper shipping name** : Not regulated.

## 15. REGULATORY INFORMATION

- CERCLA: Hazardous substances.** : The following components are listed: None.
- SARA 313** : The following components are listed: None.
- California Prop. 65** : The following components are listed: None.
- Tariff Code - harmonized system** : 3215.11 Printing ink: Black.  
USA ...00.60  
EU ...00.00

## 16. OTHER INFORMATION

- Date of issue** : January 11, 2008
- Prepared by** : Garth Studebaker, CSP
- Version** : 7.01

### 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.*