

SAFETY DATA SHEET	
Pen test – Cannabis test Pen test – D4D	1 of 7

Complying with 1907/2006/EEC Regulation of 18 December 2006 ("REACH Regulation")

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

Identification of the substance/preparation

Product name: Pen test – Cannabis test, Pen test – D4D

Trade names: Pen test – Cannabis test, Pen test – D4D

Catalog number: 01050, 01718

Product type: Plastic tube containing OSG ampoule filled with colorless liquid and a porous polymer that is saturated with an active chemical substance.

REACH registration no(s): N/A

Common/important uses of the substance/preparation:

Company/undertaking identification:

MISTRAL SECURITY INC.
7910 Woodmont Ave, Ste 820
TEL: (301) 913-9366
FAX: (301) 913-9369

E-mail address of person responsible for this SDS:

Emergency telephone number (including hours of operation):

Section 2. HAZARDS IDENTIFICATION

This substance/preparation is classified according to Directive 67/548/EEC or 1999/45/EC

Classification:

F; R11

Xi; R36

R66, R67

Physical/chemical hazards:

R11: Highly Flammable

R36: Irritating to the eyes

R66: Repeated exposure may cause skin dryness or cracking

R67: Vapors may cause drowsiness and dizziness

See section 11 for more detailed information on health effects and symptoms.

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

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Substance/preparation:

Ingredient name	CAS number	EC number	%	Classification
Methyl Ethyl Ketone	78-93-3	201-159-0	99.81%	F; R11 Xi; R36 R66, R67
Active ingredient	-	-	0.19%	-
See section 16 for the full text of the R-phrases [Hazard statements] declared above				

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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

Section 4. FIRST AID MEASURES

Eyes contact: In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if irritation occurs.

Skin contact: Avoid prolonged or repeated contact with skin. After handling, always wash hands thoroughly with soap and water. Get medical attention if irritation develops.

Inhalation: Avoid breathing dust. If inhaled, remove to fresh air.

Ingestion: If large quantities of this material are swallowed, call a physician immediately. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

Notes to physician: No specific antidote, medical staff contacts Poisons Information Center. All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

See section 11 for more detailed information on health effects and symptoms.

Section 5: FIRE-FIGHTING MEASURES

Extinguishing media

Suitable For small fires, use dry chemical, carbon dioxide or alcohol resistant foam. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray.

Not suitable: Solid streams of water may be ineffective.

Special exposure hazards: Flash back possible over considerable distance. Container explosion may occur under fire conditions.

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Hazardous thermal decomposition products:

Hazardous decomposition products formed under fire conditions: Carbon oxides.

Special protective equipment for fire fighters: Fire fighters should wear full protective clothing and self-contained breathing apparatus in positive pressure mode.

Remark: Move containers from fire area if possible to do so without risk. Cool all affected containers with flooding quantities of water. Use water spray to cool unopened containers.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions: Wear protective clothing. Avoid contact with skin eyes and inhalation of vapors. Ventilate area of spill.

Environmental precautions: Do not let this chemical enter the environment. Keep away from drains, surface and ground water.

Methods for cleaning up

Small spill: Absorb the chemical onto sand, vermiculite, or any other non-combustible absorbent, and collect into containers for later disposal.

Large spill: As for small spill

Personal Protection in Case of Large Spill: Safety glasses. Full suit. Suitable respirator. Boots. Gloves. A self- contained breathing apparatus should be used to avoid inhalation of the product.

Section 7: HANDLING AND STORAGE

Handling: Do not breathe vapors. Avoid contact with skin and eyes. Wash thoroughly after handling. Do not permit eating/drinking/smoking near the material.

Storage: Store and use away from heat, sparks, open flame or any other ignition source. Avoid contact oxidizing agents and strong reducing agents. Store under inert gas. Prevent exposure to moisture - hygroscopic.

Packaging materials Recommended: Use original container.

Specific use(s): N/A

Section 8: EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure limit values:

Ingredient name	Occupational exposure limits
Methyl ethyl ketone	ACGIH TLV 200 ppm (TWA), 300 ppm (STEL) OSHA-PEL 200 ppm (TWA) GER-MAK 600 mg/m ³ (TWA) NIOSH-REL,10H, 200 ppm (TWA), 300 ppm (STEL)

Exposure controls

Occupational exposure controls: Use process enclosures, local exhaust ventilation, or others engineering controls to keep airborne levels below recommend exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

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Respiratory protection: Suitable respirator. Be sure to use an approved/certified or equivalent. Wear appropriate respirator when ventilation is inadequate.

Hand protection: Wear protective disposable gloves to prevent skin exposure.

Eye protection: Wear protective safety glasses.

Skin protection: Wear appropriate long-sleeved clothing to minimize skin contact.

Hygiene measures: Keep away from foodstuffs and beverages. Do not eat, drink or smoke during work time. Remove soiled or soaked clothing immediately. Clean skin thoroughly after work; apply skin cream. During use, provide suitable ventilation.

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

General information:

Appearance: Liquid, colorless

Odour: N/A

Odour threshold: N/A

pH: N/A

Melting point/Freezing point: -87°C

Initial boiling point/boiling range: 79-80°C

Flash point: -3°C – closed cup

Evaporation rate: N/A

Flammability: N/A

Upper/lower flammability or explosive limits: Upper - 10.1%, Lower – 1.8%

Vapor pressure: 95 hPa at 20°C

Vapor density: 2.49 – (Air = 1.0)

Relative Density: 0.805 g/cm³

Solubility(ies): Soluble in water.

Partition coefficient Octanol/Water: log Po/w: 0.29

Auto-ignition temperature: 516°C

Decomposition temperature: N/A

Viscosity: N/A

Explosive properties: N/A

Oxidizing properties: N/A

Other information: N/A

Section 10: STABILITY AND REACTIVITY

Stability: Stable under ordinary conditions of use and storage.

Conditions to avoid: Heat, flames and sparks. Exposure to moisture.

Materials to avoid: Oxidizing agents and strong reducing agents.

Hazardous Decomposition products: Carbon oxides.

Hazard polymerization: N/A

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Section 11: TOXICOLOGICAL INFORMATION

Potential acute health effects

Acute toxicity:

Product/ingredient name	Test	Species	Dose
Methyl ethyl ketone	Oral	Rat	2737 mg/kg
	Oral	Mouse	3000 mg/kg
	Inhalation	Rat	23500 mg/m ³ (480 min)
	Inhalation	Mouse	32 mg/m ³
	Administration onto the skin	Rabbit	6480 mg/kg

Irritation and corrosivity

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation. Vapours may cause drowsiness and dizziness.

Ingestion: May be harmful if swallowed. May cause gastrointestinal disturbance.

Skin contact: May be harmful if absorbed through skin. May cause skin irritating.

Eyes contact: Causes eye irritation.

Symptoms: Central nervous system depression and narcosis.

Sensitization: N/A

CMR Effects:

Carcinogenicity: N/A

Mutagenicity: N/A

Reproductive toxicity: N/A

Other effects:

Over-exposure signs/symptoms: Repeated exposure may cause skin dryness or cracking.

Target organs: N/A

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity:

Substance name	Toxicity to fish	Toxicity to crustaceans	Toxicity to algae	Toxicity to other aquatic plants	Other toxicity data (birds, bees, plants etc.)

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Methyl ethyl ketone	Cyprinodon, 400 mg/l – 96h Pimephales, LC50- 3130- 3320 mg/l – 96h	Daphnia, LC50- >520 mg/l -48h Daphnia, EC50 7060 mg/l- 24h	-	-	-
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Mobility: N/A

Persistence and Degradability: N/A

Bioaccumulative potential: N/A

Result of PBT assessment (if CSR is required): N/A

Other adverse effects:

Substances which have an unfavorable influence on the oxygen balance and can be measured using parameters such as BOD, COD, etc.: N/A

Substances, which contribute to eutrophication: N/A

Remarks: N/A




Section 13: DISPOSAL CONSIDERATIONS

Methods of disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Hazardous waste: N/A

Section 14: TRANSPORT INFORMATION

International transport regulations

Regulatory Information	UN number	Proper shipping name	Classes	Packing group	Label	Additional information	Marine pollutant
ADR/RID Class	1193	ETHYL METHYL KETONE (Methyl ethyl ketone)	3	II		EAC: 2YE	-
IMDG class	1193	ETHYL METHYL KETONE (Methyl ethyl ketone)	3	II		EMS-No: F-E, S-D	-
IATA class	1193	ETHYL METHYL KETONE (Methyl ethyl ketone)	3	II		-	-

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National Fire Protection Association Hazard Ratings- NFPA (R):

- 2 Health Hazard Rating
- 3 Flammability Rating
- 0 Instability Rating

Section 15: REGULATORY INFORMATION

Classification and labeling according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.

Labelling in accordance with EC directives:

Irritant



Highly flammable



Risk phrase(s):

- R11: Highly Flammable
- R36: Irritating to the eyes
- R66: Repeated exposure may cause skin dryness or cracking
- R67: Vapors may cause drowsiness and dizziness

Safety phrase(s):

- S9: Keep container in a well-ventilated place
- S16: Keep away from sources of ignition - No smoking

National Paint & Coating Hazardous Materials Identification System – HMIS (R):

- 2 Health Hazard Rating - Moderate
- 3 Flammability Rating - Serious
- 0 Instability Rating - Minimal

Section 16: OTHER INFORMATION

Full text of R-phrases referred to in sections 2 and 3:

- R11: Highly Flammable
- R36: Irritating to the eyes
- R66: Repeated exposure may cause skin dryness or cracking
- R67: Vapors may cause drowsiness and dizziness

Training advice: Before using/handling the product one must read carefully present MSDS.

Recommended restriction: N/A

Key Legend Information:

ACGIH- American Conference of Governmental Industrial Hygienists

OSHA- Occupational Safety and Health Administration

NTP- National Toxicology program

IARC- International Agency for Research on Cancer

ND- Not Determined

N/A- Not available

R-phrases- Risk phrases

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S-phrases- Safety phrases

Date of issue: 18/01/2011

Version no. 1

According to Regulation (EC) No. 1907/2006 (REACH), Annex II and Commission Directive 2001/59/EC.

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.