

# Safety Data Sheet

according to HPR, Schedule 1

Issue date 08/19/2022

Reviewed on 08/19/2022

## \* 1 Identification

- **Product Identifier**
- **Trade Name: HexChecks Testing Swabs**
- **Product Number:**  
HMIRA Registry Number: 4510872574  
Filing Date - 2022-08-08
- **Product Description:** Rapid test for hexavalent chromium.
- **Details of the Supplier of the Safety Data Sheet:**
- **Manufacturer/Supplier:**  
Figure, Inc.  
8500 Cinder Bed Rd.  
Lorton, VA 22079  
Phone: 571-290-8964  
info@figureengineering.com  
http://www.figureengineering.com
- **Emergency telephone number:** 571-250-8964

## 2 Hazard identification

- **Classification of the substance or mixture:**



Flame

Flammable Liquids - Category 2 H225 Highly flammable liquid and vapour.



Eye Irritation - Category 2A H319 Causes serious eye irritation.

- **Label elements:**
- **Hazard pictograms:**



- **Signal word:** Danger
- **Hazard statements:**  
H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.
- **Precautionary statements:**  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 Keep container tightly closed.  
P240 Ground and bond container and receiving equipment.  
P241 Use explosion-proof [electrical/ventilating/lighting] equipment.  
P242 Use non-sparking tools.  
P243 Take actions to prevent static discharges.  
P264 Wash thoroughly after handling.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

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- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P370+P378 In case of fire: Use CO<sub>2</sub>, powder or water spray to extinguish.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Unknown acute toxicity:**

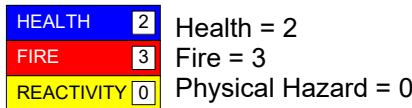
This value refers to knowledge of known, established toxicological or ecotoxicological values.

· **Information pertaining to particular dangers for man and environment:**

· **NFPA ratings (scale 0 - 4)**



· **HMS-ratings (scale 0 - 4)**



· **Hazard(s) not otherwise classified (HNOC):** None known

### 3 Composition/Information on ingredients

· **Chemical characterization: Substance**

· **Description:** Mixture of substances listed below with non-hazardous additions.

· **Dangerous Components:**

Alcool primaire ⚠ Flammable Liquids - Category 2, H225; ⚠ Eye Irritation - Category 2A, H319	7-9% w/w *
Acide primaire ⚠ Flammable Liquids - Category 3, H226; ⚠ Skin Corrosion - Category 1A, H314; ⚠ Acute Toxicity (Dermal) – Category 4, H312; Acute Toxicity (Inhalation) - Category 4, H332 Specific concentration limits: Skin Corrosion - Category 1A; H314: C ≥ 90 % Skin Corrosion - Category 1B; H314: 25 % ≤ C < 90 % Skin Irritation - Category 2; H315: 10 % ≤ C < 25 % Eye Irritation - Category 2; H319: 10 % ≤ C < 25 %	7-9% w/w *
Cétone primaire ⚠ Flammable Liquids - Category 2, H225; ⚠ Eye Irritation - Category 2A, H319; Specific Target Organ Toxicity - Single Exposure - Category 3, H336	7-9% w/w *

\* Actual concentration ranges are withheld as a trade secret.

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CAS NO. Description	%
Alcool primaire ⚠ Flammable Liquids - Category 2, H225; ⚠ Eye Irritation - Category 2A, H319	
Acide primaire ⚠ Flammable Liquids - Category 3, H226; ⚠ Skin Corrosion - Category 1A, H314; ⚠ Acute Toxicity (Dermal) – Category 4, H312; Acute Toxicity (Inhalation) - Category 4, H332 Specific concentration limits: Skin Corrosion - Category 1A; H314: C ≥ 90 % Skin Corrosion - Category 1B; H314: 25 % ≤ C < 90 % Skin Irritation - Category 2; H315: 10 % ≤ C < 25 % Eye Irritation - Category 2; H319: 10 % ≤ C < 25 %	
Cétone primaire ⚠ Flammable Liquids - Category 2, H225; ⚠ Eye Irritation - Category 2A, H319; Specific Target Organ Toxicity - Single Exposure - Category 3, H336	

#### 4 First-aid measures

- **Description of first aid measures**
- **General information:** If symptoms persist, call a physician.
- **After inhalation:**  
 Supply fresh air. If required, provide artificial respiration. Consult doctor if symptoms persist.  
 In case of unconsciousness place patient stably in the side position for transportation.
- **After skin contact:**  
 Immediately wash with water and soap and rinse thoroughly.  
 If skin irritation occurs, consult a doctor.
- **After eye contact:**  
 Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor.  
 If easy to do so, remove contact lenses if worn.  
 If eye irritation occurs, consult a doctor.
- **After swallowing:** If swallowed and symptoms occur, consult a doctor.
- **Information for doctor**
- **Most important symptoms and effects, both acute and delayed:** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed:**  
 No further relevant information available.

#### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
 CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** No further relevant information.
- **Special hazards arising from the substance or mixture:** No further relevant information available.
- **Advice for firefighters**
- **Special protective equipment for firefighters:**  
 No special measures required.  
 As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

#### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures:**  
 Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Dilute with plenty of water.

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· **Methods and material for containment and cleaning up:**

- Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).
- Dispose of contaminated material as waste according to section 13.
- Ensure adequate ventilation.
- Dispose of the collected material according to regulations.

· **Reference to other sections:**

- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

· <b>PAC-1:</b>	
Alcool primaire	1,800 ppm
Acide primaire	5 ppm
Cétone primaire	200 ppm
· <b>PAC-2:</b>	
Alcool primaire	3300* ppm
Acide primaire	35 ppm
Cétone primaire	3200* ppm
· <b>PAC-3:</b>	
Alcool primaire	15000* ppm
Acide primaire	250 ppm
Cétone primaire	5700* ppm

**7 Handling and storage**

· **Handling**

· **Precautions for safe handling:**

- Ensure good ventilation/exhaustion at the workplace.
- Prevent formation of aerosols.

· **Information about protection against explosions and fires:**

- Keep ignition sources away - Do not smoke.
- Protect from heat.
- Protect against electrostatic charges.

· **Conditions for safe storage, including any incompatibilities**

· **Storage**

· **Requirements to be met by storerooms and receptacles:** Store in a cool location.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:**

- Keep receptacle tightly sealed.
- Store in cool, dry conditions in well sealed receptacles.
- Protect from heat and direct sunlight.

· **Specific end use(s):** No further relevant information available.

**8 Exposure controls/ Personal protection**

· **Additional information about design of technical systems:** No further data; see section 7.

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· **Control parameters:**

· **Components with occupational exposure limits:**

<b>Alcool primaire</b>	
EL	STEL: 1000 ppm
EV	TWA: 1,900 mg/m <sup>3</sup> , 1,000 ppm
<b>Acide primaire</b>	
EL	STEL: 15 ppm TWA: 10 ppm
EV	STEL: 37 mg/m <sup>3</sup> , 15 ppm TWA: 25 mg/m <sup>3</sup> , 10 ppm
<b>Cétone primaire</b>	
EL	STEL: 500 ppm TWA: 250 ppm
EV	STEL: 750 ppm TWA: 500 ppm

· **Additional information:** The lists that were valid during the creation of this SDS were used as basis.

· **Exposure controls:**

· **Personal protective equipment**

· **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing and wash before reuse.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

· **Breathing equipment:** Use suitable respiratory protective device in case of insufficient ventilation.

· **Protection of hands:**



Protective gloves

· **Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material:**

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

· **Eye protection:**



Tightly sealed goggles

· **Limitation and supervision of exposure into the environment:** None

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### 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· **Form:** Liquid  
· **Color:** Clear  
· **Odor:** Acetone-like

· **pH-value:** Not determined.

· **Change in condition**

· **Melting point/Melting range:** Not determined.

· **Flash point:** 20 °C

· **Flammability (solid, gaseous):** Highly flammable.

· **Ignition temperature:** ≥425 °C

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not self-igniting.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

· **Explosion limits:**

· **Lower:** Not determined.  
· **Upper:** Not determined.

· **Vapor pressure @ 20 °C:** ≤23 hPa

· **Density @ 20 °C:** 0.9557 g/cm<sup>3</sup>

· **Relative density:** Not determined.

· **Vapor density:** Not determined.

· **Evaporation rate:** Not determined.

· **Solubility in / Miscibility with:**

· **Water:** Fully miscible.

· **Partition coefficient (n-octanol/water):** Not determined.

· **Viscosity:**

· **Dynamic:** Not determined.  
· **Kinematic:** Not determined.

· **Solvent content:**

· **Water:** 74.5 %  
· **VOC content:** 15.09 %  
0.0 g/l / 0.00 lb/gal

· **Other information:** No further relevant information available.

### 10 Stability and reactivity

· **Reactivity:** No further relevant information available.

· **Chemical stability:** Product is stable under normal conditions.

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

· **Possibility of hazardous reactions:** No dangerous reactions known.

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- **Conditions to avoid:** Heat, flame and ignition sources.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

**11 Toxicological information**

- **Information on toxicological effects:**
- **Acute toxicity:**

· <b>LD/LC50 values that are relevant for classification:</b>		
<b>Acide primaire</b>		
Oral	LD50	3,310 mg/kg (Rat)
Dermal	LD50	1,112 mg/kg (Rabbit)
Inhalative	LC50/4 h	11.4 mg/l (Rat)
	LC50/96 hours	>1,000 mg/l (Trout)

- **Primary irritant effect:**
- **On the skin:** Irritant to skin and mucous membranes.
- **On the eye:** Irritating effect.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:  
Irritant
- **Carcinogenic categories:**
- **IARC (International Agency for Research on Cancer):**  
Group 1 - Carcinogenic to humans  
Group 2A - Probably carcinogenic to humans  
Group 2B - Possibly carcinogenic to humans  
Group 3 - Not classifiable as to its carcinogenicity to humans  
Group 4 - Probably not carcinogenic to humans  
Substance is not listed.

Alcool primaire	1
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- **NTP (National Toxicology Program):**  
None of the ingredients are listed.

**12 Ecological information**

- **Toxicity:**
- **Aquatic toxicity:**

<b>Acide primaire</b>	
EC50	>300.82 mg/l (Water flea)

- **Persistence and degradability:** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential:** No further relevant information available.
- **Mobility in soil:** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Do not allow undiluted product or product that has not been neutralized to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment:**
- **PBT:** Not applicable.

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- **vPvB:** Not applicable.
- **Other adverse effects:** No further relevant information available.

**13 Disposal considerations**

- **Waste treatment methods**
- **Recommendation:**  
Observe all federal, state and local environmental regulations when disposing of this material.
- **Waste disposal key:** US EPA RCRA waste code D001 (ignitability characteristic).
- **Uncleaned packaging**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

**14 Transport information**

- **UN-Number:** UN1993
- **DOT/TDG, ADR, IMDG, IATA** UN1993
- **UN proper shipping name:** Flammable liquids, n.o.s. (Acetone, Ethanol)
- **DOT/TDG** UN1993 Flammable liquids, n.o.s. (Acetone, Ethanol)
- **ADR** FLAMMABLE LIQUID, N.O.S. (ACETONE, ETHANOL (ETHYL ALCOHOL))
- **IMDG** FLAMMABLE LIQUID, N.O.S. (ACETONE, ETHANOL)
- **IATA**
- **Transport hazard class(es):**
- **DOT/TDG (Transport dangerous goods):**



- **Class:** 3 Flammable liquids
- **Label:** 3

· **ADR**



- **Class:** 3 (F1) Flammable liquids
- **Label:** 3

· **IMDG, IATA**



- **Class:** 3 Flammable liquids
- **Label:** 3
- **Packing group:**
- **DOT/TDG, ADR, IMDG, IATA** II
- **Environmental hazards:** Not applicable.
- **Special precautions for user:** Warning: Flammable liquids
- **Hazard identification number (Kemler code):** 33



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· <b>EMS Number:</b>	F-E,S-E
· <b>Stowage Category</b>	B
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>DOT/TDG</b>	
· <b>Quantity limitations:</b>	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
<hr/>	
· <b>ADR</b>	
· <b>Excepted quantities (EQ):</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
<hr/>	
· <b>IMDG</b>	
· <b>Limited quantities (LQ):</b>	1L
· <b>Excepted quantities (EQ):</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>UN "Model Regulation":</b>	UN 1993 FLAMMABLE LIQUID, N.O.S. (ACETONE, ETHANOL (ETHYL ALCOHOL)), 3, II

**15 Regulatory information**

· **Safety, health and environmental regulations/legislation specific for the substance or mixture:**

No further relevant information available.

· **SARA (Superfund Amendments and Reauthorization):**

· **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients are listed.

· **TSCA (Toxic Substances Control Act):**

All components have the value ACTIVE.

· **Chemicals known to cause cancer:**

None of the ingredients are listed.

· **Canadian substance listings:**

· **Canadian Domestic Substances List (DSL):**

All ingredients are listed.

· **Canadian Non-Domestic Substances List (NDSL)**

None of the ingredients are listed.

· **Canadian Ingredient Disclosure list (limit 0.1%):**

Alcool primaire

· **Canadian Ingredient Disclosure list (limit 1%):**

Acide primaire

Cétone primaire

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

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**Trade Name: HexChecks Testing Swabs****Hazard pictograms:****Signal word:** Danger**Hazard statements:**

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

**Precautionary statements:**

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P233 Keep container tightly closed.
- P240 Ground and bond container and receiving equipment.
- P241 Use explosion-proof [electrical/ventilating/lighting] equipment.
- P242 Use non-sparking tools.
- P243 Take actions to prevent static discharges.
- P264 Wash thoroughly after handling.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P370+P378 In case of fire: Use CO<sub>2</sub>, powder or water spray to extinguish.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**National regulations:**

The product is not subject to be labelled according with the prevailing version of the regulations on hazardous substances.

**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.**16 Other information**

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

**Contact:****Abbreviations and acronyms:**

- IMDG: International Maritime Code for Dangerous Goods  
DOT: US Department of Transportation  
IATA: International Air Transport Association  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
NFPA: National Fire Protection Association (USA)  
HMIS: Hazardous Materials Identification System (USA)  
VOC: Volatile Organic Compounds (USA, EU)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative

**\* Data compared to the previous version altered.**

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