

# Safety Data Sheet

according to WHS Regulations

Printing date 20.07.2022

Version number 5

Revision: 20.07.2022

Hazardous according to criteria of Australian Safety and Compensation Council.

## 1 Identification

· **Product identifier:**

· **Trade name:** HexChecks Testing Swabs

· **REACH Registration number:** Not relevant

· **Relevant identified uses of the substance or mixture and uses advised against:**  
Rapid test for hexavalent chromium.

· **Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

Manufacturer:

Figure, Inc.

8500 Cinder Bed Rd.

Lorton, VA 22079

Phone: 571-290-8964

info@figureengineering.com

http://www.figureengineering.com

Supplier:

Air-Met Scientific PTY LTD

7 - 11 Ceylon St, Nunawading, VIC, 3131, AUSTRALIA

Phone: 1800 000 744

Fax: 1800 000 774

Email: sales@airmet.com.au

https://www.airmet.com.au

Figure, Inc.

8500 Cinder Bed Rd.

Lorton, VA 22079

Phone: 571-290-8964

info@figureengineering.com

http://www.figureengineering.com

· **Emergency telephone number:**

AU: 0418 322 144

US: 571-250-8964

## 2 Hazard(s) Identification

· **Classification of the substance or mixture**



flame

Flam. Liq. 2      H225 Highly flammable liquid and vapour.



Eye Irritation 2A    H319 Causes serious eye irritation.

(Contd. on page 2)

## Safety Data Sheet

according to WHS Regulations

Printing date 20.07.2022

Version number 5

Revision: 20.07.2022

**Trade name: HexChecks Testing Swabs**

(Contd. of page 1)

- **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 action to prevent static discharges.  
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing 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.  
P403+P235 Store in a well-ventilated place. Keep cool.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Other hazards:** None known
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition and Information on Ingredients

- **Chemical characterisation: Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

Primary Alcohol	7-9%
 Flam. Liq. 2, H225;  Eye Irritation 2A, H319; STOT SE 3, H335	
Primary Acid	7-9%
 Flam. Liq. 3, H226;  Skin Corr. 1A, H314;  Acute Tox. 4, H312; Acute Tox. 4, H332 Specific concentration limits: Skin Corr. 1A; H314: C ≥ 90 % Skin Corr. 1B; H314: 25 % ≤ C < 90 % Skin Irrit. 2; H315: 10 % ≤ C < 25 % Eye Irrit. 2; H319: 10 % ≤ C < 25 %	
Primary Ketone	7-9%
 Flam. Liq. 2, H225;  Eye Irritation 2A, H319; STOT SE 3, H336	

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

(Contd. on page 3)

## Safety Data Sheet

according to WHS Regulations

Printing date 20.07.2022

Version number 5

Revision: 20.07.2022

Trade name: HexChecks Testing Swabs

(Contd. of page 2)

### 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. Keep patient warm. Consult doctor if symptoms persist.  
In case of unconsciousness place patient stably in 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>, 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**
- **Protective equipment:** No special measures required.

### 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.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated materials as waste according to item 13.  
Ensure adequate ventilation.  
Dispose of the material collected 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.

### 7 Handling and Storage

- **Handling:**
- **Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **Information about fire and explosion protection:**  
Keep ignition sources away - Do not smoke.

(Contd. on page 4)

## Safety Data Sheet

according to WHS Regulations

Printing date 20.07.2022

Version number 5

Revision: 20.07.2022

**Trade name: HexChecks Testing Swabs**

(Contd. of page 3)

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 container 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 and personal protection

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

· **Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

#### Primary Alcohol

WES Long-term value: 1880 mg/m<sup>3</sup>, 1000 ppm

#### Primary Acid

WES Short-term value: 37 mg/m<sup>3</sup>, 15 ppm

Long-term value: 25 mg/m<sup>3</sup>, 10 ppm

#### Primary Ketone

WES Short-term value: 2375 mg/m<sup>3</sup>, 1000 ppm

Long-term value: 1185 mg/m<sup>3</sup>, 500 ppm

· **Additional information:** The lists valid during the making were used as basis.

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

· **Respiratory protection:** 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 can not 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 found out by the manufacturer of the protective gloves and has to be observed.

(Contd. on page 5)

## Safety Data Sheet

according to WHS Regulations

Printing date 20.07.2022

Version number 5

Revision: 20.07.2022

Trade name: HexChecks Testing Swabs

(Contd. of page 4)

· **Eye protection:**

Tightly sealed goggles

· **8.2.3 Environmental exposure controls:** None

### 9 Physical and Chemical Properties

· **Information on basic physical and chemical properties**· **General Information**· **Appearance:****Form:**

Liquid

**Colour:**

Clear

· **Odour:**

Acetone-like

· **pH-value:**

Not determined.

· **Change in condition****Melting point/freezing point:**

Not determined.

· **Flash point:**

20 °C

· **Flammability (solid, gas):**

Highly flammable.

· **Ignition temperature:**

≥425 °C

· **Decomposition temperature:**

Not determined.

· **Auto-ignition temperature:**

Product is not self-igniting.

· **Explosive properties:**

Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· **Explosion limits:****Lower:**

Not determined.

**Upper:**

Not determined.

· **Vapour pressure @ 20 °C:**

≤23 hPa

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

Not determined.

· **Vapour 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 (EC)**

752.0 g/l

22.64 %

(Contd. on page 6)

# Safety Data Sheet

according to WHS Regulations

Printing date 20.07.2022

Version number 5

Revision: 20.07.2022

Trade name: HexChecks Testing Swabs

(Contd. of page 5)

- **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.
- **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**

- **LD/LC50 values relevant for classification:**

### Primary Alcohol

Oral	LD50	7,060 mg/kg (Rat)
Inhalative	LC50/4 h	20,000 mg/l (Rat)
	LC50/96 hours	12,900-15,300 mg/l (Trout)

### Primary Acid

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 Ketone

Oral	LD50	5,800 mg/kg (Rat)
Dermal	LD50	20,000 mg/kg (Rabbit)
Inhalative	LC50/4 h	5,549 mg/l (Trout) (96 hr)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Irritant to skin and mucous membranes.
- **Serious eye damage/irritation** Irritating effect.
- **Additional toxicological information:**  
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:  
Irritant

## 12 Ecological Information

- **Toxicity**

- **Aquatic toxicity:**

### Primary Alcohol

EC50	34,900 mg/l (Daphnia)
------	-----------------------

### Primary Acid

EC50	>300.82 mg/l (Water flea)
------	---------------------------

### Primary Ketone

EC50	6,100 mg/l (Pimephales) (48 hr)
------	---------------------------------

(Contd. on page 7)

# Safety Data Sheet

according to WHS Regulations

Printing date 20.07.2022

Version number 5

Revision: 20.07.2022

Trade name: HexChecks Testing Swabs

(Contd. of page 6)

- **Persistence and degradability:** No further relevant information available.
- **Behaviour 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 large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **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 agents:** Water, if necessary together with cleansing agents.

## 14 Transport information

- **UN-Number**
- **ADG, IMDG, IATA** UN1993
- **UN proper shipping name**
- **ADG** UN1993 FLAMMABLE LIQUID, N.O.S. (ACETONE, ETHANOL (ETHYL ALCOHOL))
- **IMDG** FLAMMABLE LIQUID, N.O.S. (ACETONE, ETHANOL (ETHYL ALCOHOL))
- **IATA** FLAMMABLE LIQUID, N.O.S. (ACETONE, ETHANOL)
- **Transport hazard class(es)**
- **ADG**



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

· **IMDG, IATA**



- **Class** 3 Flammable liquids.
- **Label** 3
- **Packing group**
- **ADG, IMDG, IATA** II
- **Environmental hazards:** Not applicable.
- **Special precautions for user** Warning: Flammable liquids.

(Contd. on page 8)

## Safety Data Sheet

according to WHS Regulations

Printing date 20.07.2022

Version number 5

Revision: 20.07.2022

Trade name: HexChecks Testing Swabs

(Contd. of page 7)

- **Hazard identification number (Kemler code):** 33
- **EMS Number:** F-E, S-E
- **Stowage Category** B
- **Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.

· **Transport/Additional information:**

- **ADG**
- **Limited quantities (LQ)** 1L
- **Excepted quantities (EQ)** Code: E2  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 500 ml
- **Transport category** 2
- **Tunnel restriction code** D/E

- **IMDG**
- **Limited quantities (LQ)** 1L
- **Excepted quantities (EQ)** Code: E2  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 500 ml
- **UN "Model Regulation":** 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**

· **Australian Inventory of Industrial Chemicals**

All ingredients are listed.

· **Standard for the Uniform Scheduling of Medicines and Poisons**

Primary Acid	S2, S5, S6
Primary Ketone	S5

· **Australia: Priority Existing Chemicals**

None of the ingredients are listed.

· **GHS label elements**

The product is classified and labelled according to the Globally Harmonised System (GHS).

· **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.

(Contd. on page 9)



## Safety Data Sheet

according to WHS Regulations

Printing date 20.07.2022

Version number 5

Revision: 20.07.2022

### Trade name: HexChecks Testing Swabs

(Contd. of page 8)

P243	Take action to prevent static discharges.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing 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.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Directive 2012/18/EU** Substance is not listed.
- **Named dangerous substances - ANNEX I** None of the ingredients are listed.
- **Seveso category** P5c FLAMMABLE LIQUIDS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t

**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

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Relevant phrases**

- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.

**Contact:**

- **Date of last revision/ revision number:** 20.07.2022 / 4

**Abbreviations and acronyms:**

- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
- IMDG: International Maritime Code for Dangerous Goods
- 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)
- 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
- Flam. Liq. 2: Flammable liquids – Category 2
- Flam. Liq. 3: Flammable liquids – Category 3
- Acute Tox. 4: Acute toxicity – Category 4
- Skin Corr. 1A: Skin corrosion/irritation – Category 1A
- Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A
- STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

(Contd. on page 10)



**Safety Data Sheet**  
according to WHS Regulations

Printing date 20.07.2022

Version number 5

Revision: 20.07.2022

**Trade name: HexChecks Testing Swabs**

(Contd. of page 9)

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

SDS created by MSDS Authoring Services [www.msdsauthoring.com](http://www.msdsauthoring.com) +1-877-204-9106