

# Safety Data Sheet

Issue No: 1.4	Date of Edition: September 2020
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## 1. IDENTIFICATION OF THE SUBSTANCE AND SUPPLIER

Product Name:	<b>HyperCide</b>
Recommended Use:	Agricultural Biocide
Supplier:	ICA International Chemicals (Pty) Ltd
Address:	28 Planken Street Plankenbrug Industrial STELLENBOSCH · 7600 · SOUTH AFRICA
Telephone No:	+27 (0) 21 886 9812
Fax No:	+27 (0) 21 886 8209
Emergency Tel No:	Griffon Poison Information Centre +27 82 446 8946 Poisons Helpline 0861 555 777

## 2. HAZARD IDENTIFICATION ON PRODUCT

GHS Classification	Oxidising liquid: Category 2 Stot SE: Category 3 Acute Toxicity Oral: Category 5 Acute Toxicity Dermal: Category 3 Acute Toxicity Inhalation: Category 2 Skin Corrosion/Irritant: Category 1A Eye Damage/ irritation: Category 1 Aquatic: Category 1
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GHS Label Elements



Signal Word Danger

Hazard Statements:	H272 May intensify fire: Oxidiser. H303 May be harmful if swallowed. H311 Toxic in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H318 Causes serious eye damage. H330 Fatal if inhaled. H335 May cause respiratory irritation. H400 Very toxic to aquatic life.
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Precautionary Statements	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P221 Take any precaution to avoid mixing with combustibles. P234 Keep only in original container. P260 Do not breathe (undiluted) spray/fumes/mist/vapours. P262 Do not get in eyes, on skin, or on clothing. P264 Wash hands and face thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P273 Avoid release to the environment. P280 Wear protective gloves, protective clothing, eye and face protection. P284 Wear respiratory protection in case of inadequate ventilation. <b>P301+P330+P331 If SWALLOWED: Rinse mouth. Do NOT induce vomiting.</b> <b>P303 + P361+P353: F ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</b> P304+P340 IF (undiluted) spray/fumes/mist/vapours is INHALED remove to fresh air and keep at rest in a position comfortable for breathing.
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P305+351+338	<b>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</b>
P310	Immediately call a POISON Centre or Doctor if IN EYES/(undiluted mist) is INHALED/product SWALLOWED.
P312	Call a POISON Centre or Doctor if on SKIN/ small quantity SWALLOWED, and you feel unwell.
P320	IF (undiluted) spray/fumes/mist/vapours is: INHALED: Specific treatment is urgent – as product is corrosive to mucus membranes in respiratory tract.
P332+P313	If skin irritation occurs, consult a doctor/physician.
P361 + P364	<b>Take off immediately all contaminated clothing and wash it before reuse.</b>
P370+P378	In case of fire: Use water, water mist to extinguish.
P391	Collect spillage.
P403+P233	Store in a well-ventilated place and keep the container tightly close with original ventilating cap.
P405	Store locked up.
P410	Protect from sunlight.
P501	Dispose of contents/ container as hazardous waste.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT(s)	CAS NO	CONCENTRATION (%)
Peracetic Acid	79-21-0	13,5 – 15,0
Hydrogen Peroxide	7722-84-1	21,5 – 24,0
Acetic acid	64-19-7	< 25
Inert		to 100

### 4. FIRST AID MEASURES

Show this MATERIAL SAFETY DATA SHEET to a doctor

#### UNDILUTED PRODUCT

<b>INGESTION:</b>	Burning sensation. Corrosive to mouth, throat and intestines. May cause irreversible tissue damage.	<ul style="list-style-type: none"> <li>Rinse mouth.</li> <li>Immediately give large quantities of water to drink.</li> <li>Obtain medical attention.</li> <li>When dealing with caustic substances, notify emergency physician immediately.</li> </ul>
<b>INHALATION:</b>	Coughing, burning sensation. Corrosive to nose, throat and lungs. May cause irreversible tissue damage.	<ul style="list-style-type: none"> <li>Remove from exposure, lie down. Keep patient warm and at rest. Oxygen or artificial respiration if needed. Obtain medical attention.</li> </ul>
<b>EYES:</b>	Burning sensation. Corrosive to Eyes. May cause irreversible tissue damage, which may include blindness.	<ul style="list-style-type: none"> <li><b>Immediately wash eyes</b> with large amounts of water for at least 15 minutes, lifting upper and lower lids. Remove contact lenses if present and easy to do. Continue rinsing. Obtain immediate medical attention. Consult an ophthalmologist immediately if symptoms persist.</li> </ul>
<b>SKIN:</b>	Biting sensation, discolouring white, burns.	<ul style="list-style-type: none"> <li>Wash off <b>immediately</b> with soap and <b>plenty of water</b> while removing all contaminated clothes and shoes. If skin irritation persists, call a physician. Keep warm. Wash contaminated clothing with plenty of water to prevent</li> </ul>
<b>MEDICAL ATTENTION:</b>	Treat symptomatically.	

#### PRODUCT – DILUTED AS PER LABEL

<b>INGESTION:</b>	<ul style="list-style-type: none"> <li>Rinse mouth. Get medical attention if symptoms occur.</li> </ul>
<b>INHALATION:</b>	<ul style="list-style-type: none"> <li>Get medical attention if symptoms occur.</li> </ul>
<b>EYES:</b>	<ul style="list-style-type: none"> <li>Immediately wash eyes with large amounts of water for at least 15 minutes, lifting upper and lower lids. Remove contact lenses if present and easy to do. Continue rinsing.</li> </ul>
<b>SKIN:</b>	<ul style="list-style-type: none"> <li>Solutions with HyperCide concentrations of &lt; 1 % should not damage the skin. If symptoms occur, wash with neutral soap.</li> </ul>

## 5. FIRE FIGHTING MEASURES

- FLASH POINT:** · Non-flammable, but an oxidiser, fire-stimulating. Increases the burning rate of combustible materials.
- FLAMMABILITY:** · Non-flammable
- SUITABLE EXTINGUISHING MEDIA:** · Extinguishing media – small fires:  
· Water, water mist.
- UNSUITABLE EXTINGUISHING MEDIA:** · Extinguishing media – large fires:  
· Water, water mist.  
· DO NOT use a solid water stream as it may scatter and spread fire.  
· UNSUITABLE EXTINGUISHING MEDIA: Organic compounds
- HAZARDS FROM COMBUSTION:** · On decomposition hydrogen peroxide releases oxygen, which may intensify fire.
- PRECAUTIONS FOR FIRE FIGHTERS:** · Fire fighters should wear full protective gear including self-contained breathing apparatus. With large-scale fire, violent decomposition or even explosion is possible.  
· In the case of fire, cool the containers that are at risk with water or dilute with water (flooding) OR In case of fire, remove the endangered containers and bring to a safe place, if this can be done safely.
- HAZCHEM CODE:** · 2X

## 6. ACCIDENTAL RELEASE MEASURES

### SPILL OR LEAK:

- **Ensure adequate ventilation**
- **Keep people away from and upwind of spill/leak.**
- Avoid inhalation and contact with spilled material or contaminated surfaces.
- DO NOT eat, drink or smoke.
- Wear personal protective clothing and equipment (see section 8). Keep people and animals away.
- Stop leak if safe to do so.
- PREVENT spilled material from entering drains or sewer systems. Dike and bund area with sand or earth to prevent contamination of drains or sewers.
- **Never use sawdust, wood chips, cloths or similar** material to soak up spill.
- For small spill, contain with sand or vermiculate and dilute the contained product with at least 10 times with water.
- For large spill, contain the spill and evacuate the area, leave until the reaction subsides, then collect up for disposal.
- Dilute spilled product with at least 10 – 100 times water.
- Transfer contaminated material to an open topped container and remove to a safe place for neutralization/disposal.
- **Neutralization:** once diluted with 10 – 100 times of water, neutralize with a suitable alkali such as sodium bicarbonate (baking soda)
- Very dilute solution can be washed into drains with plenty of water. Contact the proper local authorities.
- Prevent undiluted product from entering drains. Should not be released undiluted into the environment.
- This product may be harmful to fish when exposed to 1 ppm or more of peracetic acid on a continuous basis.

## 7. HANDLING AND STORAGE

- CONDITIONS FOR SAFE STORAGE:** Storage: Keep in a cool (<30°C), well-ventilated place. **Keep away from heat and sources of ignition.** Condition of containers should be checked regularly. Store in original container. **Store upright.** Store in a container with a safety valve cap. Always close container tightly after removal of product. Ensure tightness of safety valve cap at all times. Avoid leakage.  
Jointless smooth concrete floor. Recommendation: Acid-proof floor.  
**Pressure burst may occur due to gas evolution if the container is not adequately vented**
- INCOMPATIBLE MATERIALS** **Rust, combustible material, flammable materials, reducing agents, organic materials, metal chlorides, bases, dirt, heavy metals**
- COMPATIBLE MATERIALS:** 304L Stainless Steel, 316L Stainless Steel, Passivated Aluminium; High Density Polyethylene (HDPE), Polyvinyl Chloride (PVC)

## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

- ENGINEERING CONTROLS:** Ensure adequate ventilation. Ensure that eyewash stations and safety showers are close to the workstation location.
- GENERAL HYGIENIC PRACTICES:** Do not eat, drink or smoke during use. Avoid exposure. Wash hands before breaks and immediately after handling the product.

## PERSONAL PROTECTIVE EQUIPMENT

<b>RESPIRATORY PROTECTION:</b>	Use approved air-purifying or supplied air respirator where airborne concentrations of vapor or mist are expected to exceed exposure limits. Recommended respirators are those with an organic vapor / acid gas cartridge.
<b>EYE / FACE PROTECTION:</b>	Chemical resistant goggles or face shield if splashes are expected to occur.
<b>HAND PROTECTION:</b>	Rubber/latex/neoprene or other suitable chemical resistant gloves. Do not use leather or cotton gloves.
<b>SKIN / BODY PROTECTION:</b>	Wear non-combustible clothing and footwear (PVC, neoprene, nitrile or natural rubber).
<b>NATIONAL EXPOSURE STANDARDS:</b>	Not available for SA: GB: Acetic acid and Hydrogen peroxide STEL = 2 ppm = 2,8 mg/m <sup>3</sup> TWA = 1 ppm = 1,4 mg/m <sup>3</sup>

## PRODUCT – DILUTED AS PER LABEL

**PERSONAL PROTECTIVE EQUIPMENT:** With effective ventilation, no special protective equipment required.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE (colour; physical form):</b>	Liquid, colourless to slightly white
<b>ODOUR:</b>	Strong Chemical
<b>PH:</b>	0.1
<b>DENSITY:</b>	~1.13 g/mℓ
<b>FLASH POINT:</b>	No flash point observed
<b>VISCOSITY:</b>	~ 55 mPa/s
<b>PERSISTENT FOAMING:</b>	None
<b>FLAMABLE:</b>	Non-flammable,

### 10. STABILITY AND REACTIVITY

<b>CHEMICAL STABILITY:</b>	Stable under normal conditions of use.
<b>CONDITIONS TO AVOID:</b>	Heat, sparks, exposure to sunlight
<b>INCOMPATIBLE MATERIAL:</b>	Metal (corrosive), bases and organic material

### 11. TOXICOLOGICAL INFORMATION

#### ANIMAL ACUTE TOXICITY DATA

<b>ORAL:</b>	>2000 mg/kg (Category 5)
<b>DERMAL:</b>	Acute toxicity estimate 200 - 1000 mg/kg bw (test not possible due to low pH, Category 3)
<b>INHALATION:</b>	0.183 mg/ℓ (Category 2)
<b>SKIN CORROSION:</b>	Corrosive (Sub-category 1A)
<b>SKIN IRRITATION:</b>	Skin irritant (Category 2)
<b>EYE IRRITATION:</b>	Severe eye irritant (Category 1)
<b>SENSITISATION:</b>	Not classified as a skin sensitiser

### 12. ECOLOGICAL INFORMATION (a.i.)

<b>ECOTOXICITY</b>	Birds: LD <sub>50</sub> (oral)	Hydrogen Peroxide 5000 mg/ℓ Peracetic Acid – Not available
	Fish : LC <sub>50</sub> (96h)	Hydrogen Peroxide 16.4 mg/ℓ Peracetic Acid 0.53 mg/ℓ (Fresh water fish) 11 mg/ℓ (Marine Fish)
	Daphnia: LC <sub>50</sub> (48h)	Hydrogen Peroxide 2.34 mg/ℓ Peracetic Acid 116.6 mg/ℓ NOEL 0.0121 mg
	Bees: LD <sub>50</sub> (oral and contact)	No data available
	Algae: 72 h EC <sub>50</sub>	Hydrogen Peroxide 1.69 mg/ℓ NOEL 0.63 mg/ℓ Peracetic Acid 0.16 mg/ℓ NOEL 0.061 mg/ℓ

**PERSISTENCE, DEGRADABILITY and MOBILITY:** Fully, rapidly biodegradable, water, oxygen and carbon dioxide as residues.


### 13. DISPOSAL CONSIDERATIONS

On site disposal of the concentrated product is not acceptable. Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, approach local authorities.

Invert empty container over mix or spray tank and allow draining for at least 30 seconds until flow has slowed to a drip. Triple rinse the empty container with clean water equal to a minimum of 30 % of the volume of the container. Add rinsing to the contents of the spray tank. Offer container for recycling or puncture and dispose of at authorised landfill. Do not use container for any other purpose.

DIP disposal: According to local legislative requirements .

### 14. TRANSPORT INFORMATION

UN NUMBER:	2014
PROPER SHIPPING NAME:	Hydrogen peroxide, aqueous solutions with not less than 20 percent but not more than 40 percent hydrogen peroxide (stabilized as necessary)
DANGEROUS GOODS CLASS	5.1
SPECIAL PRECAUTIONS:	Shipping container: UN certified, vented polyethylene cap
	
PACKING GROUP:	2
MARINE POLLUTANT	YES
HAZCHEM CODE:	2X

### 15. REGULATORY INFORMATION

This product is registered in South Africa with the Compulsory Specification for disinfectants and detergent-disinfectants as published by Government Notice No. R. 529 (Government Gazette No. 19999) of 14 May 1999, registration number NRCS Reg. No: Act 5GNR529/243642/130/0885 SDS valid for three years from date of issue

### 16. OTHER INFORMATION

Date of Preparation: 15 July 2019 Contact: Suzel Serfontein Phone +27(0) 21886 912  
This MSDS is valid for three years from date of edition.

This information concerns only the product conforming to its specifications and limits to the uses herein stated. The information contained on this sheet is based on knowledge of the product on date of publication. It is given in good faith.

The data does not signify any warranty with regard to the product properties. This Safety Data Sheet (SDS) summarises to our best knowledge the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this SDS and consider the information in the context of how to prevent accidents in the normal workplace including in conjunction with other products.

Care for the environment is essential for our future.

The information was obtained from sources which we believe are reliable. However, the information is provided in good faith. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and for this reasons we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used for this product only.

END of MSDS