

| Document no: | 013UM | |
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| Effective Date: | August 2022 | |
| Revision no: | August 2022 (1) | |
| Product Code: | GPER01/F | |
| SAFETY DATA SHEET | | |

PERLAN®

| 1. CHEMICAL PRO IDENTIFICATIO | ODUCT AND COMPANY N | Skin: Remove contaminated clothing, shoes and leather goods. Gently wipe off excess chemical. Wash skin gently and thoroughly with water and non-abrasive soap. |
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| Product Name: | PERLAN® | Seek medical advice if necessary. Persons who become |
| Other identifier: | Gibberellic acid + 6-benzyl- | sensitised may require specialized medical attention. |
| | adenine | Eyes: Immediately flush the contaminated eyes with |
| De comune de de l | | |
| | se Plant Growth regulator | gently flowing lukewarm water for 15 to 20 minutes, |
| Restrictions on use: Agriculture | | occasionally lifting the upper and lower lids. Obtain |
| | | medical attention if necessary. |
| Supplier: | Universal Crop Protection (Pty) | Ingestion: Have victim rinse mouth thoroughly with water. |
| | Ltd. | Do not induce vomiting. Give plenty of water or milk to |
| | Co. Reg. No.: 1983/008184/07 | drink (1 to 2 glasses). Seek medical advice if person feels |
| | | |
| | PO Box 801, | unwell. |
| | Kempton Park, 1620, South Africa | Anticipated acute effects: No information available. |
| Telephone: | (011) 396 2233 | Anticipated delayed effects: No information available. |
| Fax: | (011) 396 4666 | Most important symptoms / effects: None known. |
| Website: | www.villacrop.co.za | Advice to physicians: There is no antidote. Treat |
| | <u></u> | supportively and symptomatically. |
| Emergency teleph | none numbers: | |
| | | |
| | Spill emergency no: | 5. FIRE FIGHTING MEASURES |
| (Hazcall24) | +27 86 044 4411 | |
| (Client: Villa Crop | | Suitable Extinguishing Media: Use carbon dioxide, dry |
| | rmation Centre +27 82 446 8946 | chemical powder, water fog or foam to extinguish fire. |
| (Client: Villa Crop | Protection) | Water spray can be used for cooling of containers |
| Poisoning Emerg | ency telephone numbers: | exposed to fire but avoid water coming in contact with the |
| | rmation Centre +27 82 446 8946 | product. Apply water as a fine mist or fog. |
| Poisons Informatio | | Unsuitable Extinguishing Media: No information. |
| | | |
| | | Specific hazards: No information. |
| 2. HAZARDS IDEN | NTIFICATION | Special fire-fighting procedures: Isolate the fire area |
| | | and evacuate downwind. Fight fire from maximum |
| | | |
| | int adverse effects: | distance or use unmanned hose holders or monitor |
| Physiochemical e | ffects: None known. | |
| Physiochemical e | | distance or use unmanned hose holders or monitor |
| Physiochemical e | ects: None known. ects: None known. | distance or use unmanned hose holders or monitor nozzles. Contain fire control agents for later disposal. Use |
| Physiochemical e Human health effe Label elements: 1 | effects: None known. ects: None known. No label elements. | distance or use unmanned hose holders or monitor nozzles. Contain fire control agents for later disposal. Use a recommended extinguishing agent for the type of surrounding fire. |
| Physiochemical e Human health effe Label elements: 1 Signal word: No s | effects: None known. ects: None known. No label elements. ignal word. | distance or use unmanned hose holders or monitor nozzles. Contain fire control agents for later disposal. Use a recommended extinguishing agent for the type of surrounding fire. Personal protective equipment: Fire-fighters and others |
| Physiochemical e Human health effe Label elements: I Signal word: No s Hazard statement | effects: None known. ects: None known. No label elements. ignal word. :: No hazard statements. | distance or use unmanned hose holders or monitor nozzles. Contain fire control agents for later disposal. Use a recommended extinguishing agent for the type of surrounding fire. Personal protective equipment: Fire-fighters and others that may be exposed should wear full protective clothing |
| Physiochemical e Human health effe Label elements: 1 Signal word: No s Hazard statement Precautionary sta | effects: None known. ects: None known. No label elements. ignal word. :: No hazard statements. itements: No precautionary statements. | distance or use unmanned hose holders or monitor nozzles. Contain fire control agents for later disposal. Use a recommended extinguishing agent for the type of surrounding fire. Personal protective equipment: Fire-fighters and others |
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| | Product Code. GPERUI/F |
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| PERLAN® | SAFETY DATA SHEET |
| Methods and Materials for Clean-up: Cover spill with sand or suitable non-combustible absorbent material, sweep up and place into sealable, labelled containers for subsequent disposal. Remove contaminated material to safe location for subsequent disposal. | Emergency eye wash: Where there is any possibility that an employee's eyes may be exposed to this substance, the employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use. |
| Wash area with detergent and water and follow with clean water rinse. Do not allow spill to contaminate water | 9. PHYSICAL AND CHEMICAL PROPERTIES |
| supplies. | Appearance: Colourless liquid. Odour: Odourless. |
| 7. HANDLING AND STORAGE | Odour threshold: No information. |
| Handling: | pH (1% aqueous solution): 4 – 5. |
| Precautions for safe handling: Handle with the care and | Melting point: Not applicable. |
| caution applicable to crop protection chemicals. Avoid | Freezing point: Not available. |
| spillage. Avoid contact with eyes and skin and inhalation | Boiling point: 187 °C. |
| of fumes. Avoid exposure to spray. Use with adequate | Flash point: > 100 °C. Flammability: Not flammable. |
| ventilation. Wash thoroughly after use. Do not apply directly to areas where surface water is present, or to | Upper / lower explosion limits: Not applicable. |
| intertidal areas below the mean high-water mark. Water | Vapour pressure (mm Hg): 29.3 Pa @ 20 °C (solvent) or |
| used to clean equipment must be disposed of correctly to | 5.5 x 10 ⁻⁶ Pa (6-BA). |
| avoid contamination. | Relative vapour density: Not available. |
| General occupational hygiene: Wash hands before | Density / relative density: 1.043 at 20 °C. |
| eating, drinking, chewing gum, smoking or using the toilet. | Solubility: Soluble in water. n-octanol / water partition coefficient: -0.92 log Pow |
| Operators should change and wash clothing daily. Storage: | (solvent) |
| Conditions for safe storage: Store in a dry, cool covered | Auto-ignition temperature: > 100 °C. |
| warehouse in original, well-labelled containers. Store | Decomposition temperature: Not available. |
| away from oxidising agents. Store away from food, | Viscosity: 66.5 cP at 20 °C (kinematic) |
| feedstuffs, fertilisers, seed and agricultural chemicals. | 10. STABILITY AND REACTIVITY |
| Keep away from children and animals. Local regulations should be complied with. | 10. STADILITY AND REACTIVITY |
| | Chemical stability: The product is stable for two years at |
| 8. EXPOSURE CONTROL AND/ PERSONAL PROTECTION | ambient temperature and pressure, under normal storage and handling conditions. Avoid storage under extreme temperatures and conditions. Store below 50 °C, |
| Permissible concentration: | preferably below 30 °C, and not for prolonged periods in |
| None known. | direct sunlight. Reactivity: None known. |
| Engineering controls: Provide general or local exhaust ventilation systems. The measures appropriate for a | Possibility of hazardous reactions: None known. |
| particular work site depend on how this material is used | Conditions to avoid: Keep away from heat and sources |
| and on the extent of exposure. Ensure that control | of ignition. |
| systems are properly designed and maintained. Comply | Incompatible materials: Strong oxidizing agents. |
| with occupational safety, environmental, fire, and other | Hazardous decomposition products: Decomposition products may include toxic and irritant fumes. |
| applicable regulations. Personal protective equipment: | |
| Respiratory protection: No respiratory protection is | 11. TOXICOLOGICAL INFORMATION |
| needed if ventilation/extraction is adequate, otherwise | |
| wear approved dust mask. | Acute Toxicity: |
| Hand protection: Wear suitable protective gloves. | Oral LD ₅₀ : > 2000 mg/kg in rats. |
| Eye protection: Employee must wear splash-proof safety | Dermal LD ₅₀ : > 2000 mg/kg in rats. |
| goggles or face-shield to prevent contact with this substance. | Inhalation LD ₅₀ : > 5.21 mg/ <i>t</i> in rats. Skin irritation / corrosion: Not a skin irritant. |
| Skin and body protection: Wear suitable protective | Eye damage / irritation: Not a skin irritant. |
| clothing. Contaminated clothing should be laundered | Skin sensitization: Not a skin sensitizer. |
| before reuse. | Respiratory sensitization: Not a respiratory sensitizer. |
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| PERLAN® | SAFETY DATA SHEET |
| Reproductive cell mutagenicity:No evidencemutagenic effects.Carcinoginicity:No evidence of carcinogenic effects.Reproductive toxicity:No evidence of reproduceeffects.Specific target organ toxicity – single exposure:calculated.Specific target organ toxicity – repeated exposure: | of container three times in succession with one quarter of the container volume fresh water and decant the rinsate into the spray or mixing tank. Puncture the triple rinsed container and dispose of via an approved collector or recycler <u>www.croplife.co.za</u> . Do not bury, burn, or donate the container to any other parties that may use it as a container for food or beverages. |
| calculated. | 14. TRANSPORT INFORMATION |
| Aspiration hazard: Not calculated. Chronic Effects: None known. POTENTIAL ADVERSE EFFECTS: None known. Other information: | Not classed i.e. considered non-hazardous material according to UN Orange Book and international transport codes e.g. RID (rail), ADR (road) and IMDG (sea) |
| None known. | Special/Environmental Precautions: Wedge drums |
| 12. ECOLOGICAL INFORMATION | tightly to avoid movement. Transport in bulk (according to MARPOL 73/78, Annex II and the IBC code): Not available. |
| ECOTOXICOLOGY DATA: Information on formulation: | 15. REGULATORY INFORMATION |
| LC_{50} Fish (96 h) > 100 mg/ ℓ | |
| EC_{50} Daphnia magna (48h) 1068 mg/ ℓ | Safety, health and environmental regulations / |
| EC_{50} Algae (72h) 284.9 mg/ ℓ | legislation for the mixture: |
| EC ₅₀ Lemna (72h) 254.7 mg/ <i>l</i> | OHSA 1993 Regulations for Hazardous Chemical |
| LD_{50} Bee (oral) > 82 µg/bee | Substances. |
| LD_{50} Bee (contact) > 100 µg/bee | Relevant information regarding restrictions: None. |
| Information on active ingredient (6-BA)LC50Bird1599 mg/kg | EU regulation: Regulation EC1272/2008 (EU-GHS/CLP) |
| ENVIRONMENTAL EFFECTS: Plants: No information available. Persistence and degradability: Rapidly biodegradable | Other national regulations: None. Chemical Safety Assessment carried out? No |
| Bio-accumulative potential: No information available. | |
| Mobility in soil: No information available. | 16. OTHER INFORMATION |
| Other adverse effects: No information available. | Backing and Labelling . The product is peaked in HDDE |
| | Packing and Labelling: The product is packed in HDPE fluorinated 1, 5, 10, 20, 25 litres plastic containers and |
| 13. DISPOSAL CONSIDERATIONS | labelled according to South African regulations and |
| Master Open dumping or burning of this postigid | quidelines |
| Waste: Open dumping or burning of this pesticide prohibited. Never pour untreated waste or sur | olus Other hazard statements, abbreviations and |
| products into public sewers or where there is any dar | oper explanations: |
| | not ALA: International AIr Transport Association. |
| contaminate rivers, dams or any other water sources | with IBC: International Bulk Chemical. ICAO: International Civil Aviation Organization. |
| the product or used containers. | IMDG. International Maritime Dangerous Goods |
| Comply with local legislation applying to waste dispo The product may be taken to a registered waste disp | DSal. IMO: International Maritime Organization |
| site or incineration plant. | LD ₅₀ value. The median lethal dose of the amount of a |
| Container: Emptied containers retain vapour and pro- residues. Observe all labelled safeguards until contain | |
| destroyed. TRIPLE RINSE THE EMPTY CONTAINER FOLLOWS : Invert the empty container over the spra | |
| mixing tank and drain for at least 30 seconds after the has slowed down to dripping. Thereafter rinse the en | Hisciaimer ind information on this sheet is not a |
| | |



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information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage and use of the product. It is not applicable to unusual or non-standard uses of the product nor where instructions or recommendations are not followed. All information is given in good faith but without guarantee in respect of accuracy, and no responsibility is accepted for errors and omissions or the consequence thereof.

END OF DOCUMENT

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For detailed information on revisions, contact the Registration holder.