

Sharda International Africa (Pty) Ltd

(Co. Reg. No. 2010/002268/07)
P.O. Box 82021, Southdale, 2135, South Africa.

Tel: 031 764 3011, Tel: 087 822 2397
Email: rsa.regn@shardaintl.com, Website: <http://www.shardaintl.com>

SECTION 1. Chemical product and company identification

Product identifier:

Identification as on the label/Trade name: **SHARDA METALDEHYDE 5 GB**

Additional information: Metaldehyde

Relevant identification uses of the substance and uses advised against:

Identified uses: Insecticide

Uses advised against: Use only as directed.

Details of the supplier of the Safety Data Sheet:

Company name: Sharda International Africa (Pty) Ltd

Address: P.O. Box 82021, Southdale, 2135

Phone number.: 031-764-3011

Emergency telephone numbers:

UNITAS Hospital: 0800-111-9900

Tygerberg Hospital: 021-931-6129

Netcare 911: 082911

SECTION 2. HAZARD IDENTIFICATION

Classification of the substances or mixture

The mixture is classified according to

SANS 10234:2008, Regulation EC 1272/2008 [EU-GHS/CLP]	
Hazard classes/Hazard categories	Hazard statement
Eye irritation	H319 Causes serious eye irritation.
Reproduction toxicity	H361 Suspected of damaging fertility

For full text of H statements see section 16

The most important adverse effects

The most important adverse physiochemical effects: None.

The most important adverse human health effects: Causes serious eye irritation. Suspected of damaging fertility.

Label elements



Hazard pictograms:

Signal Word: Warning

Hazard Statements: H319 Causes serious eye irritation. H361 Suspected of damaging fertility

Precautionary Statements: P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P264+P280 Wash hands, face and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. P281 - Use personal protective equipment as required. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

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contact lenses, if present and easy to do. Continue rinsing. P308 + P313 - IF exposed or concerned: Get medical advice/attention. P337 + P313 If eye irritation persists: Get medical advice/attention. P405 - Store locked up. P501 - Dispose of contents/container according to local regulations.

Special labelling of certain mixtures: None

Other hazards: None

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

Ingredients:

Substance name (IUPAC/EC)	CAS –No.	Concentration % by weight	Classification
			EC1272/2008
Metaldehyde	108-62-3	5 %	Flammable Solid 2 Acute Toxicity category 3 Aquatic Chronic category 3 Reproductive Toxicant Category 2
Bitrex	3734-33-6	0.015 %	
Calcium dipropionate	4075-81-4	1.2 %	Eye Damage category 1
Pigment blue 15	147-14-8	0.085 %	
Durum wheat semolina	8002-80-0	95.70 %	

For full text of H statements see section 16

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

Description of first aid measures:

Show this safety data sheet the doctor in attendance. Immediate medical attention is required. Use personal protective equipment as required.

In case of skin contact: Wash skin for at least 15 minutes with fresh running water and soap, including hair and under fingernails. Remove contaminated clothing and wash before reuse. Treat symptomatically

In case of eye contact: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of inhalation: Remove to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.

In case of ingestion: Do NOT induce vomiting. Call a physician or poison control centre immediately.

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Most important symptoms and effects, both acute and delayed:

Inhalation: Not classified

Ingestion: Not classified

Skin contact: Not classified

Eye contact: causes serious eye irritation

Anticipated delayed effects:

Suspected of damaging fertility

Most important symptoms/effects: None known.

Advice to physician: Treat symptomatically

SECTION 5. FIRE -FIGHTING MEASURE

Extinguisher media:

Suitable extinguisher media: Water spray, carbon dioxide (CO₂), dry chemical, alcohol-resistant foam.

SMALL FIRE: See above.

LARGE FIRE: See above.

Unsuitable extinguishing media: Do not use high volume water jet, due to contamination risk.

Specific hazards arising from the mixture: Combustible material. Keep product and empty container away from heat and sources of ignition. Risk of ignition.

Hazardous Combustion Products: Carbon monoxide (CO), Carbon dioxide (CO₂).

Specific extinguishing methods:

Extinguishing media must not be used for safety reasons: high volume water jet (contamination risk). Fires generate poisonous and corrosive fumes containing: carbon oxides, nitrogen oxides and hydrochloric acid. Specific methods: (on small fires) if area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated. If conditions permit, cool containers / tanks with spray water.

Advice for fire-fighters:

Wear NIOSH/MSHA approved self-contained breathing apparatus and full protective gear. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6. ACCIDENTAL RELEASE

Personal precautions, protective equipment and emergency procedures:

Avoid dust formation. Use personal protective equipment as required. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas.

For non-emergency personnel: Keep all personal away. Avoid contact with eyes and skin. Ventilate area of spill or leak, especially in contained areas.

For emergency responders: Wear appropriate personal protective equipment. Avoid contact and ventilate area of the spill or leakage.

Protective equipment:

Wear protective clothing. Avoid breathing dust. If necessary, wear a self-contained breathing apparatus. Refer to Section 8 for personal protective equipment to be worn during containment and clean-up of a spill.

Emergency procedures: Alert fire-fighting personnel, evacuate unprotected personal and animals

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Environmental precautions: Should not be released into the environment. Do not flush into surface water or sanitary sewer system.

Methods and materials for containment and cleaning up:

Material for containment and cleaning up:

Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

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 information on disposal.

Additional information: None.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling:

Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Avoid dust formation. Use only under a chemical fume hood. Do not breathe (dust, vapor, mist, gas). Do not ingest. If swallowed then seek immediate medical assistance.

Protective measures: Observe directions on label and instructions for use.

Handle in accordance with good industrial hygiene and safety practice. Advice on general occupational hygiene: practice good hygiene when using this material. Wash hands before eating, drinking, chewing gum, smoking, using the toilet, or applying cosmetics. Worker should shower at the end of each workday. Launder all clothing before it is re-used. Do not eat, drink or smoke when handling this product.

Conditions for safe storage, including incompatibilities: Store in sealed original containers, in a well-aired, fresh and dry storehouse and in shaded places. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from direct sunlight, open flame, food, seed, animals, children and uniformed persons. Store at temperature not exceeding 40°C. Do not leave in applicators for extended periods.

Incompatible substances: None known

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control parameters:

Exposure control:

Biological limits values: This product, as supplied, does not contain any hazardous materials with biological limits established by the region-specific regulation bodies.

Monitoring methods: BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust.

Appropriate engineering controls:

Ensure adequate ventilation, especially in confined areas. Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

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Respiratory protection:

Avoid inhaling dust. Use effective dust mask

Large scale/emergency use: Use a NIOSH/MSHA or European Standard EN 136 approved respirators if exposure limits are exceeded or if irritation or other symptoms are experienced.

Recommended Filter type: Particulates filter conforming to EN 143

Small scale/Laboratory use: Maintain adequate ventilation Use a NIOSH/MSHA or European Standard EN 149:2001 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Recommended half mask:- Particle filtering: EN149:2001

Hand protection: Protective (impermeable) gloves

Eye/face protection: Wear eye protection. Safety glasses

Skin and body protection:

Long-sleeved shirt, long pants, shoes plus socks, protective (impermeable) gloves. Inspect gloves before use. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information). Ensure gloves are suitable for the task: Chemical compatibility, Dexterity, Operational conditions, User susceptibility, e.g., sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. Remove gloves with care avoiding skin contamination.

Environmental exposure controls: Environmental manager must be informed of all major spillages.

Other protection:

Do not eat, drink or smoke while handling this product. Prevent contamination of food, feeds, drinking water and eating utensils. After using this product wash hands and face before eating. Take extreme care to avoid dust. Wash accurately (preferably a shower) after work shift. Wash hands during breaks and at the end of the work with soap and water.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	White
Odour	Slight
Melting point	246 °C
Softening Point	No data available
Boiling point	No information available 392
Flammability (liquid)	Not applicable, solid
Flammability (solid, gas)	No information available
Explosion limits	No data available
Flash point	55 °C
Autoignition Temperature	580 °C
Decomposition temperature	No data available
pH	6.4 - 6.6 (0.22 g/l @ 20 °C)
Viscosity	Not applicable, solid
Water Solubility	0.02% (20 °C) practically insoluble
Solubility in other solvents	No information available
Partition Coefficient (n-octanol/water)	-

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Vapour Pressure	1.3 mbar @28.5 °C
Density/ specific gravity	No data available
Bulk density	No data available
Vapour density	Not applicable, solid
Particle characteristics	No data available
Flammable solids	Burning rate or burning time => 2.2 mm/s or < 45 secs Wetted zone passed – No
Evaporation Rate	Not applicable – Solid

SECTION 10. STABILITY AND REACTIVITY

Reactivity: The product is stable under normal warehouse conditions.

Chemical stability: Light sensitive

Possibility of hazardous reactions:

Hazardous Polymerization: Hazardous polymerization does not occur.

Hazardous Reactions: None under normal processing

Conditions to avoid: Incompatible product. Excess heat. Exposure to light.

Incompatible materials: Strong oxidizing agent. Strong acids.

Hazardous decomposition products: None known

SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

ACUTE TOXICITY:

Metalddehyde CAS 108-62-3	
Acute toxicity	
Acute Oral LD ₅₀ (rats)	283 mg/kg
Acute Oral LD ₅₀ (mice)	425 mg/kg
Acute Dermal LD ₅₀ (rabbit):	>5000 mg/kg
Acute Inhalation LC ₅₀ (4 h) (rat)	>15 mg/ℓ air
Skin irritation/ corrosion (rabbits)	Not a skin irritant
Eye damage / irritation (rabbits)	Causes serious eye irritation
Respiratory or skin sensitization	Not a skin sensitizer
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Suspected of damaging fertility
Specific Target Organ Toxicity STOT single exposure	Not classified
Specific Target Organ Toxicity STOT repeated exposure	Not classified
Aspiration hazard	Not classified

SECTION 12. ECOLOGICAL INFORMATION

Anticipated behaviour of the chemical product in the environment /possible environmental impact/ecotoxicity:

Metalddehyde CAS 108-62-3	
Acute toxicity	
Birds: LD ₅₀ for quail Dietary LC ₅₀ (8 d) for quail	170 mg/kg 3460 ppm
Fish: LC ₅₀ (96 h) Rainbow trout	75 mg/ℓ
Daphnia EC ₅₀ (48 h)	>90 mg/ℓ
Algae	

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EC ₅₀ for (96 h) 73.5 mg/ℓ	6.8 ppb
Bees:	
LD ₅₀ (oral)	>87 µg/bee
LD ₅₀ (contact)	>113 µg/bee
Other beneficial spp.	No effects on aphids
Worms	
LC ₅₀	>1000 ppm

Biodegradability: No data available

Bio-accumulation: No data available

Mobility: No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

General Information: Do not discharge into drains, water courses or onto the ground. Discharge, treatment or disposal may be subject to national, state, or local laws. Empty containers may contain product residues. Open dumping or burning of this pesticide is prohibited. Waste resulting from the use of this product cannot be reused or re-processed. Never pour untreated waste or surplus product into public sewers or where there is any danger of run-off or seepage into water systems. Do not contaminate rivers, dams or any other water sources with the product or used containers. Comply with local legislation applying to waste disposal. The product may be taken to a registered waste disposal site or incineration plant.

Disposal Methods: Destroy the container by perforating and flattening and dispose of through an approved waste dump site, incineration plant or recycling company.

Container: Since emptied containers retain product residue, follow label warnings even after container is emptied.

Product/ packaging disposal:

Treat as hazardous waste and dispose of in accordance with municipal, provincial and national regulations.

SECTION 14. TRANSPORT INFORMATION

UN Number: Not Regulated
Un proper shipping name Metaldehyde
UN Classification transport hazard class(es):
Packing group (if applicable)
Marine pollutant (Y/N)
Transport in bulk according to MARPOL 73/78, Annex II and the IBC Code: Not available

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation for the mixture:

Relevant information regarding authorization: Occupational Health and Safety Act 1993 Regulation for Hazardous Chemical Substances.

Relevant information regarding restrictions:

EU regulations: Regulation EC 1272/2008 [EU-GHS/CLP] and EU directives 67/548/EEC or EC 1999/45/EC

Other National regulations: National Road Traffic Act, 1996 (ACT NO. 93 of 1996).

SANS 11014:2010 – Safety data sheet for chemical products, Content and order section

SANS 10228:2012- The identification and classification of dangerous goods for transport by road and rail modes.

National Environmental Management: Waste Act 59 of 2008.

Chemical Safety Assessment carried out? No

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SECTION 16. OTHER INFORMATION

Indication of changes:

GHS aligned

Relevant classification and H statements (number and full text):

H319 Causes serious eye irritation.

H361 Suspected of damaging fertility

Training instructions:

Use as indicated on the label, special training may be required for application.

Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

Notice to readers:

To the best of our knowledge, the information contained herein is accurate and is based on the present state of our knowledge and does not therefore guarantee specific properties. However, neither the above-named supplier nor any of its subsidiaries assumes any liability whatsoever for any accuracy or completeness of the information contained herein.

Final determinations of suitability of any material are sole responsibility of the users, who must take responsibility for observing existing laws and regulations. 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.