

Safety Data Sheet (SDS) STAR 750WDG/01

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According to UN GHS 9th edition
Revision Date: 2023/10/19

First print date: 2021/11/29
Version: 2.0

SECTION 1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY/UNDERTAKING

Product identifier:

Identification as on the label/Trade name: **STARSHIP 750 WDG**

Additional information: Product code STAR 750WDG/01

Relevant identification uses of the substance and uses advised against:

Identified uses: An insecticide.

Uses advised against: Use only as directed.

Details of the supplier of the Safety Data Sheet:

AECI Limited
14 Field Road, LILANTON

Details of the Manufacturer:

Shandong Weifang Rainbow Chemical Co., Ltd.
Binhai Economic Development Area,
Weifang, Shandong 262737,
China

Emergency telephone numbers:

Griffon Poison information centre: 082 446 8946
Poisons Information Helpline: 0861 555 777
AECI Limited: (011) 823 8000 (o/h) Spill Tech: 086 100 0366 (a/h)

SECTION 2. HAZARD IDENTIFICATION

Classification of the substances or mixture

The mixture is classified according to

SANS 10234:2019, Regulation EC 1272/2008 [EU-GHS/CLP]	
Hazard classes/Hazard categories	Hazard statement
Acute toxicity oral (Category 4)	H302
Acute toxicity dermal (Category 5)	H313
Acute toxicity inhalation (Category 4)	H332
Skin irritation (Category 3)	H316
Skin sensitization (Category 1)	H317
Eye irritation (Category 2)	H319
Reproductive Toxicity (Category 2)	H361
Hazardous to the environment (Acute category 1)	H400
Hazardous to the environment (Chronic category 2)	H411

For full text of H statements see section 16

The most important adverse effects

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The most important adverse physiochemical effects: None.

The most important adverse human health effects: Harmful if swallowed or if inhaled.

Label elements

Hazard pictograms:



Signal Word: Warning

Hazard Statements: H302 Harmful if swallowed. H313 May be harmful in contact with skin. H332 Harmful if inhaled. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H361 Suspected of damaging fertility or the unborn child. H400 Very toxic to aquatic life. H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements: P203 Obtain, read and follow all safety instructions before use. P261 Avoid breathing dust/fume/gas/mist/ vapours/spray. P264 Wash hands thoroughly after handling. P264+P265 Wash hands thoroughly after handling. Do not touch eyes. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment. Regulations. P280 Wear protective gloves/protective clothing/eye protection/face protection. P301+ P317 IF SWALLOWED Get medical help. P302 + P317 IF ON SKIN Get medical help. P302 + P352 IF ON SKIN Wash with plenty of water. P304 + P340 IF INHALED Remove person to fresh air and keep comfortable for breathing. P305 + P351 + P338 IF IN EYES Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P317 Get medical help. P318 IF exposed or concerned, get medical advice. P337 + P317 If eye irritation persists: Get medical help. P321 Specific treatment. P330 Rinse mouth. P332 + P317 If skin irritation occurs: Get medical help. P362 + P364 Take off contaminated clothing and wash it before reuse. P391 Collect spillage. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international.

Special labelling of certain mixture: None

Other hazards: None

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

Ingredients:

Substance name (IUPAC/EC)	CAS –No.	Concentration % By weight
	EC-No.	
Thiamethoxam	153719-23-4 428-650-4	75%
Others to 100%		

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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:

In case of inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms occur.

In case of skin contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation occurs.

In case of eye contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention if irritation occurs.

In case of ingestion Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if you feel unwell.

Most important symptoms of exposure, effects, both acute and delayed:

Inhalation: Harmful if inhaled.

Ingestions: Harmful if swallowed.

Skin contact: Causes skin irritation.

Eye contact: Causes serious eye irritation.

Indication of any immediate medical attention and special treatment needed:

Treat symptomatically.

SECTION 5. FIRE -FIGHTING MEASURE

Extinguisher media:

Suitable extinguisher media: Use an extinguishing agent suitable for the surrounding fire: use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media: High pressure water jet due to contamination risk.

Special hazards arising from the mixture:

Product is not flammable but will burn if heated by combustion of other compounds. Combustion may release carbon monoxide, hydrogen chloride, hydrogen fluoride and nitrogen oxides.

Advice for fire-fighters:

Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. Be sure to use an approved/certified respirator or equivalent.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Follow safe handling advice and personal protective equipment. Prevent formation of mist/aerosols.

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For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Isolate area. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk-through spilt material. Provide adequate ventilation.

For emergency responders: Isolate area. Keep unnecessary and unprotected personnel from entering the area. Refer to Section 7, Handling, for additional precautionary measures. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

Environmental precautions:

Shovel up into an appropriate closed container. Decontaminate tools and equipment following clean-up. Avoid creation of dust conditions.

Methods for containment and cleaning up:

For small spills Contain spilled material if possible. Collect in suitable and properly labelled containers. Absorb with materials such as: sand, earth, vermiculite or diatomaceous earth.

For large spills Sweep or vacuum up spillage. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g., sand, earth, vermiculite or diatomaceous earth and place in well labelled container for disposal according to local 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 information on disposal.

Additional information:

None.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling:

Avoid breathing dust. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not get in eyes or on skin or clothing.

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

Advice on general occupational hygiene: Do not eat drink or smoke when handling this product.

Conditions for safe storage, including incompatibilities:

Keep away from strong acid and oxidizing product. Container should be stored in a cool, dry, well-ventilated area and away from heat and flame. Keep containers closed when not in use. Keep containers out of reach of children and well away from foodstuffs and animal feeds and their containers.

Specific end uses:

Use as directed. Use original container.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:

Occupational exposure limits (OEL): No information available.

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Biological exposure indices (BEI): No information available.

Additional exposure limits under the conditions of use: No information available.

Exposure control: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. A Risk Assessment should be conducted before handling is to commence to determine specific exposure control.

Appropriate engineering controls: Provide exhaust ventilation or other engineering controls to keep the dust below their respective OEL's if applicable. Ensure that eyewash stations and safety showers are proximal to the workstation location.

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Use chemical safety goggles.

Hand protection: Use chemical resistant gloves. Examples of preferred glove barrier materials include Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, Polyvinyl alcohol, Polyvinyl chloride.

Body protection: Wear appropriate clothing for task or operation. Keep working clothes separately.

Respiratory protection: Respiratory protection is required when ventilation is inadequate, or discomfort is experienced; use an approved air-purifying respirator. Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines.

Environmental exposure controls: Prevent product from entry into sewers and water courses.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance (form): Granules.

Colour: Brown.

Odour: Odourless.

Odour threshold: No information available.

pH (at concentration): No information available.

Melting point/range (°C): 140 °C

Boiling point/range (°C): Decomposes before boiling.

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Flash point (°C): No information available.

Evaporation rate: No information available.

Flammability (solid, gas): No information available

Ignition temperature (°C): No information available.

Upper/lower flammability/explosive limits: No information available.

Vapour pressure (20°C): No information available.

Vapour density: No information available.

Density (20°C): 1.1-1.3 g/cm³

Water solubility (g/l) at 20°C: Dispersible.

n-Octanol/Water partition coefficient: No information available

Auto-ignition temperature: No information available.

Decomposition temperature: No information available.

Viscosity: No information available.

Physical hazards:

None.

Other information:

Fat solubility (solvent-oil to be specified): No information available.

Bulk density: No information available.

Dissociation constant in water (p Ka): No information available.

Oxidation-reduction potential: No information available.

SECTION 10. STABILITY AND REACTIVITY

Reactivity:

The product is stable under normal conditions.

Chemical stability:

Stable under normal storage conditions for 2 years.

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Possibility of hazardous reactions:

Hazardous polymerization will not occur. At elevated temperatures it will undergo rapid, gas evolving thermal decomposition.

Conditions to avoid:

Avoid direct sunlight and extreme heat.

Incompatible materials:

Combustible acids and oxidising agents.

Hazardous decomposition products:

May decompose at high temperatures forming toxic gases.

SECTION 11. TOXICOLOGICAL INFORMATION

Toxicokinetics, metabolism and distribution:

Non-human toxicological data: No Information available.

Excretion:

Thiamethoxam (ref. pesticide manual 16th ed)

Animals quickly and completely absorbed, rapidly distributed in the body and rapidly eliminated.

Information on toxicological effects:

Thiamethoxam

Acute oral LD₅₀ for rats 780 mg/kg. (ref. ECHA)

Dermal LD₅₀ for rats > 2000 mg/kg. (ref. pesticide manual 16th ed)

Inhalation LC₅₀ for rats >3720 mg/m³. (ref. pesticide manual 16th ed)

Chronic toxicity: No information available.

Skin corrosion/irritation:

Thiamethoxam (ref. pesticide manual 16th ed)

Non-irritating to skin for rabbit. (ref. pesticide manual 16th ed)

Serious eye damage/irritation:

Thiamethoxam (ref. pesticide manual 16th ed)

Non-irritating to eyes for rabbit. (ref. pesticide manual 16th ed)

Respiratory or skin sensitization:

Thiamethoxam (ref. pesticide manual 16th ed)

Not a skin sensitizer for guinea pigs. (ref. pesticide manual 16th ed)

Germ cell mutagenicity: No information available.

Carcinogenicity: No information available.

Reproductive toxicity: No information available.

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STOT-single exposure: No information available.

STOT-repeated exposure: No information available.

Aspiration hazard: No information available.

SECTION 12. ECOLOGICAL INFORMATION

Toxicity:

Thiamethoxam (ref. pesticide manual 16th ed)

Birds: Acute oral LD₅₀ for Bobwhite quail 1552 mg/kg, Mallard ducks 576 mg/kg. Dietary LC₅₀ for Bobwhite quail and Mallard ducks >5200 mg/kg.

Fish: LC₅₀ (96 h) for Bluegill sunfish >114 mg/ℓ, Sheepshead minnows >111 mg/ℓ for Rainbow trout >100 mg/ℓ.

Daphnia: EC₅₀ (48 h) >100 mg/ℓ.

Algae: EC₅₀ (96 h) green algae >100 mg/ℓ.

Bees: For honey bees oral 0.005 µg/bee for contact 0.024 µg/bee.

Worms: LD₅₀ (14 d) for *Eisenia foetida* >1000 mg/kg soil.

Persistence and degradability:

No information available.

Bioaccumulative potential:

No information available.

Mobility in soil

No information available.

Results of PBT & vPvB assessment:

No information available.

Other adverse effects:

No information available.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

Consider suitable waste recycling, re-use or recovery options. Dispose of in accordance with municipal, provincial and national regulations. Waste Classification and Management Regulations (GN 634 of 2013). Dispose and or manage in accordance with the requirements contained in R634 Waste Classification & Management Regulations, R635 National Norms & Standards for the Assessment of Waste for Landfill Disposal and R636 National Norms & Standards for Disposal of Waste to Landfill.

Product/ packaging disposal:

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

SECTION 14. TRANSPORT INFORMATION

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	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN-Number	3077	3077	3077
UN Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (Thiamethoxam)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (Thiamethoxam)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (Thiamethoxam)
Transport hazard class:	9	9	9
Packaging group:	III	III	III
Marine pollutant:	Yes	Yes	Yes
Special precautions for user:	Not required	Not required	Not required
Transport in bulk according to MARPOL 73/78 Annex II and the IBC code	Not required	Not required	Not required

Inland waterways: Not required.

Emergency response information: No information.

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 Agents, 2021. UN Recommendations on the Transport of Dangerous Goods Model Regulations Rev. 21 (2019), Globally Harmonized System of Classification and Labelling of Chemicals (GHS) Rev 9, 2021.

ACGIH: American Conference of Governmental Industrial Hygienists (ACGIH).

Relevant information regarding restrictions: None.

EU regulations: Regulation EC 1272/2008 [EU-GHS/CLP]

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

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

SECTION 16. OTHER INFORMATION

Indication of changes:

Updated all sections.

Relevant Classification and Hazard Statements:

Aquatic acute 1: Hazardous to the aquatic environment (Acute 1)

Aquatic chronic 1: Hazardous to the aquatic environment (Chronic 1)

H302 Harmful if swallowed. H313 May be harmful in contact with skin. H332 Harmful if inhaled. H315 Causes skin irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H361 Suspected of damaging fertility or the unborn child. H400 Very toxic to aquatic life. H411 Toxic to aquatic life with long lasting effects.

Training instructions:

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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:

Employers should use this information only as a supplement to other information gathered by them and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees.

This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.