

Safety Data Sheet (SDS) BOL 240SC/01

According to UN GHS 9th Ed

Revision Date: 2023/10/16

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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: **BOLT 240SC**

Additional information: Product code BOL 240SC/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 distributor 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 inhalation (Category 4)	H332
Skin irritation (Category 3)	H316
Serious eye damage (Category 1)	H318
Reproductive toxicity (Category 2)	H361
Hazardous to the aquatic Environment (Acute 2)	H401
Hazardous to the aquatic Environment (Chronic 3)	H412

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 eye damage, harmful if inhaled.

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Label elements

Hazard pictograms:



Signal Word: Danger

Hazard Statements: H332 Harmful if inhaled. H316 Causes mild skin irritation. H318 Causes serious eye damage. H361 Suspected of damaging fertility or the unborn child. H401 Toxic to aquatic life. H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements: P261: Avoid breathing dust/fume/gas/mist/ vapours/spray. P264+P265: Wash hands thoroughly after handling. Do not touch eyes. P271: Use only outdoors or in a well-ventilated area. P273: Avoid release to the environment. P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305 + P354 + P338: IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P317: Get medical help. P332 + P317: If skin irritation occurs: Get medical help. P405: Store locked up. P501: Dispose of contents/container in accordance with local/regional/national/international regulations. P203: Obtain, read and follow all safety instructions before use. P280: Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P318: IF exposed or concerned, get medical advice.

Special labelling of certain mixtures: None known.

Other hazards: None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

Ingredients:

Substance name (IUPAC)	CAS –No.	Concentration % By weight
	EC-No.	
Methoxyfenozide	605-245-2	20-24%
	161050-58-4	
Others to 100%		

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:

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Advice to doctors: If poisoning occurs, immediately contact a doctor, and follow the advice given. Show this Safety Data Sheet to a doctor.

In case of inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a poison control centre or doctor for treatment advice.

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. If effects occur, consult a physician, preferably an ophthalmologist.

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 and effects, both acute and delayed:

To date no symptoms are known.

Indication of any immediate medical attention and special treatment needed:

Treat symptomatically.

SECTION 5. FIRE -FIGHTING MEASURE

Extinguisher media:

SMALL FIRE: Extinguish small fires with carbon dioxide, dry powder, or alcohol-resistant foam.

LARGE FIRE: Water spray can be used for larger fires or cooling of unaffected stock but avoid the accumulation of polluted run-off from the site.

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

Special hazards arising from the mixture:

Under fire conditions some components of this product may decompose. The smoke may contain unidentified toxic and/or irritating compounds. Combustion products may include and are not limited to: Nitrogen oxides, carbon monoxide, and carbon dioxide.

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

Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel: Isolate area. Keep unnecessary and unprotected personnel from entering the area. Avoid inhalation and contact with skin. 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.

For emergency responders: Isolate area. Keep unnecessary and unprotected personnel from entering the area. Avoid inhalation and contact with skin. 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.

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Environmental precautions:

Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water. Should not be released into the environment.

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 Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. 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:

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.

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:

Store product in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use.

Specific end uses:

Use as directed. Use original container.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:

Occupational exposure limits (OEL): No information available.

Biological exposure indices (BEI): No information available.

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

Exposure control:

Appropriate engineering controls:

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Wear appropriate respirator when ventilation is inadequate. Be sure to use an approved/certified respirator or equivalent.

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. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Use safety goggles or face shield.

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): Liquid.

Colour: Tan.

Odour: Mild.

Odour threshold: No information available.

pH (at concentration): 6.8 (100%)

Melting point/range (°C): No information available.

Boiling point/range (°C): No information available.

Flash point (°C): No information available.

Evaporation rate: No information available.

Flammability (solid, gas): Not applicable.

Ignition temperature (°C): No information available.

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

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

Vapour density: No information available.

Relative density (25°C): 1.034 g/mL.

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

n-Octanol/Water partition coefficient: No information available.

Auto-ignition temperature: No information available.

Decomposition temperature: No information available.

Viscosity, dynamic (mPa s): No information available.

Physical hazards:

Explosive properties: No information available.

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.

Possibility of hazardous reactions:

Will not occur.

Conditions to avoid:

No data available.

Incompatible materials:

No data available.

Hazardous decomposition products:

Does not decompose.

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SECTION 11. TOXICOLOGICAL INFORMATION

Toxicokinetics, metabolism and distribution:

Non-human toxicological data: No Information available.

Excretion:

Methoxyfenozide (ref. pesticide manual 16th ed)

Animals readily absorbed, metabolised via phase II conjugation and eliminate.

Information on toxicological effects:

Acute toxicity:

Methoxyfenozide (ref. pesticide manual 16th ed)

Oral toxicity LD₅₀ for rat >5000 mg/kg.

Dermal LD₅₀ for rabbit >5000 mg/kg.

Inhalation LC₅₀ (4 h) for rat >4.3 mg/ℓ in air.

Skin corrosion/irritation:

Methoxyfenozide (ref. pesticide manual 16th ed)

Slightly irritating to skin for rabbits.

Serious eye damage/irritation:

Methoxyfenozide (ref. pesticide manual 16th ed)

Non-irritating to eyes and skin for rabbits.

Respiratory or skin sensitization:

Methoxyfenozide (ref. pesticide manual 16th ed)

Not a skin sensitizer for guinea pigs.

Germ cell mutagenicity:

Methoxyfenozide (ref. pesticide manual 16th ed)

Negative in Ames test and a battery of other mutagenicity and genotoxicity tests.

Carcinogenicity: No information available.

Reproductive toxicity: No information available.

STOT-single exposure: No information available.

STOT-repeated exposure: No information available.

Aspiration hazard: No information available.

SECTION 12. ECOLOGICAL INFORMATION

Toxicity:

Methoxyfenozide (ref. pesticide manual 16th ed)

Birds: Acute oral LD₅₀ for Bobwhite quail >2250 mg/kg. Dietary LC₅₀ (8 d) for Mallard ducks and Bobwhite quail >5620 mg/kg diet.

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Fish: LC₅₀ (96 h) for Sheepshead minnows >2.8 mg/ℓ, Fathead minnows >3.8 mg/ℓ, for Rainbow trout 4.2 mg/ℓ.

Bluegill sunfish 4.3 mg/ℓ,

Daphnia: LC₅₀ (48 h) 3.7 mg/ℓ.

Algae: EC₅₀ (96 and 120h) for *Selenastrum* >3.4 mg/ℓ.

Bees: Non- toxic (oral and contact) at 100 µg/bee.

Worms: LC₅₀ (14 d) for earthworms (*Eisenia foetida*) >1213 mg/kg soil.

Persistence and degradability:

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Methoxyfenozide are persistent under most environmental conditions including those associated with most sustainable agricultural conditions.

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

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN-Number	Not required	Not required	Not required
UN Proper shipping name:	Not required	Not required	Not required
Transport hazard class:	Not required	Not required	Not required
Hazard symbol	Not required	Not required	Not required
Packaging group:	Not required	Not required	Not required
Marine pollutant:	No	No	No

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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, 2022.

Relevant information regarding restrictions: None.

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 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 formulation. All sections.

Relevant H statements (number and full text):

H332 Harmful if inhaled. H316 Causes mild skin irritation. H318 Causes serious eye damage.

H361 Suspected of damaging fertility or the unborn child. H401 Toxic to aquatic life. H412 Harmful to aquatic life with long lasting effects.

Training instructions:

No special training required. Read label of product.

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.

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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.