SAFETY DATA SHEET

according to Regulation (EC) No 1272/2008 (CLP)

Tebuthiuron 46% SC

Shanghai Bosman Industrial Co., Limited

Product name	**Tebuthiuron 46% SC**	SDS number	**BM-SDS-9200**
Version	**3.0**	Revision date	**03 November 2026**
Supersedes	**Version 2.1**	Print date	**03 November 2026**
Language	**EN**	Format	**GHS / CLP - 16 sections**

1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name	Tebuthiuron 46% SC
Product type	Suspension concentrate (SC) - plant protection product
Active substance	Tebuthiuron (CAS 34014-18-1)

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified use	Professional plant-protection product for agricultural / horticultural use. For professional users only. Observe the instructions for use, the conditions of authorisation and the restrictions on use stated on the product label.
Uses advised against	Any use other than the identified use. Not for domestic or residential use. Do not use on crops or sites not stated on the label.

1.3 Details of the supplier of the safety data sheet

Supplier	Shanghai Bosman Industrial Co., Limited
Address	No. 1611, North Sichuan Road, Hongkou District, Shanghai 200080, P.R. China
Telephone	+86 21 6306 5878
Fax	+86 21 6091 1557
E-mail	info@bosmangroup.com
Website	www.bosmangroup.com

1.4 Emergency telephone number

24-hour emergency line	+86 21 6356 6528 (Shanghai Bosman Industrial Co., Limited, 24 h)
Poison centre	Contact your local poisons information centre or emergency services (e.g. 120 in mainland China) in case of poisoning.

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture



Classification according to Regulation (EC) No 1272/2008 (CLP), Annex I.

H290	Corrosive to metals, Category 1 — May be corrosive to metals.
H302	Acute toxicity, oral, Category 4 — Harmful if swallowed.
H313	Acute toxicity, dermal, Category 5 — May be harmful in contact with skin.

H315	Skin irritation, Category 2 — Causes skin irritation.
H317	Skin sensitisation, Category 1 — May cause an allergic skin reaction.
H318	Serious eye damage, Category 1 — Causes serious eye damage.
H331	Acute toxicity, inhalation, Category 3 — Toxic if inhaled.
H335	Specific target organ toxicity - single exposure, Category 3 (respiratory irritation) — May cause respiratory irritation.
H400	Hazardous to the aquatic environment, acute, Category 1 — Very toxic to aquatic life.
H410	Hazardous to the aquatic environment, chronic, Category 1 — Very toxic to aquatic life with long lasting effects.

2.2 Label elements



SIGNAL WORD
DANGER

H290 H302 H313 H315 H317 H318 H331 H335 H400 H410	May be corrosive to metals. Harmful if swallowed. May be harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Toxic if inhaled. May cause respiratory irritation. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

Supplemental hazard statements: EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

Precautionary statements - Prevention

P234	Keep only in original packaging.
P260	Do not breathe dust, fume, gas, mist, vapours or spray.
P261	Avoid breathing dust, fume, gas, mist, vapours or spray.
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.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves, protective clothing, eye protection and face protection.

Precautionary statements - Response

P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
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.
P310	Immediately call a POISON CENTER or doctor.
P311	Call a POISON CENTER or doctor.
P312	Call a POISON CENTER or doctor if you feel unwell.
P321	Specific treatment (see label).
P330	Rinse mouth.
P333+P313	If skin irritation or rash occurs: Get medical advice or attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P363	Wash contaminated clothing before reuse.
P390	Absorb spillage to prevent material damage.

P391	Collect spillage.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P332+P313	If skin irritation occurs: Get medical advice or attention.

Precautionary statements - Storage

P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P406	Store in a corrosion resistant container with a resistant inner liner.

Precautionary statements - Disposal

P501	Dispose of contents and container to a licensed hazardous-waste contractor.

2.3 Other hazards

This mixture contains substances classified as hazardous to the aquatic environment. See Section 12 for the supporting ecotoxicity data.

This mixture does not contain any substance that is identified as having endocrine-disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100, at a concentration of 0.1 % (w/w) or higher.

3 COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable - this product is a mixture.

3.2 Mixtures

Component	CAS No.	EC No.	Concentration	Classification (CLP)
Tebuthiuron	34014-18-1	-	46%	Met. Corr. 1 (H290); Acute Tox. 4 (oral) (H302); Acute Tox. 5 (dermal) (H313); Skin Irrit. 2 (H315); Skin Sens. 1 (H317); Eye Dam. 1 (H318); Acute Tox. 3 (inhalation) (H331); STOT SE 3 (H335); Aquatic Acute 1 (H400); Aquatic Chronic 1 (H410)

The classification of the hazardous component(s) reflects the hazard classification of the mixture stated in Section 2, derived from the composition using the additivity principles and concentration limits of Annex I to Regulation (EC) No 1272/2008 (CLP). Non-hazardous formulation ingredients are listed without an individual classification.

4 FIRST AID MEASURES

4.1 Description of first aid measures

General advice	Move the person out of the contaminated area. Show this safety data sheet to the doctor in attendance. Never give anything by mouth to an unconscious person.
After inhalation	Move the person into fresh air and keep at rest in a position comfortable for breathing. If breathing is irregular or stopped, administer artificial respiration. Call a physician.
After skin contact	Take off all contaminated clothing immediately. Wash the skin thoroughly with soap and plenty of water. If skin irritation or a rash develops, seek medical advice.
After eye contact	Rinse cautiously with water for at least 15 minutes, holding the eyelids open. Remove contact lenses if present and easy to do. Continue rinsing. Get medical advice if irritation develops.
After ingestion	Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Swallowing may be harmful or fatal; the product may cause nausea, vomiting and abdominal discomfort. Inhalation of vapour, mist or dust may irritate the respiratory tract and, at high exposure, affect the central nervous system. Eye contact causes serious irritation, pain and redness; may cause reversible or irreversible eye injury. Skin contact may cause an allergic skin reaction in sensitised individuals. See Section 4 for the detailed first-aid measures.

4.3 Indication of any immediate medical attention and special treatment needed

No specific antidote. Treat symptomatically and supportively. In all cases of doubt, or if symptoms persist, seek medical advice and show this safety data sheet to the attending physician.

5 FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable media	Water spray, dry powder, foam or carbon dioxide.
Unsuitable media	Do not use a solid water stream - it may scatter and spread the fire.

5.2 Special hazards arising from the substance or mixture

Thermal decomposition may release toxic and irritant gases (oxides of carbon and nitrogen). Closed containers exposed to heat may rupture.

5.3 Advice for firefighters

Wear self-contained breathing apparatus and full protective clothing. Contain fire water run-off; do not allow it to enter drains or watercourses. Cool closed containers with water spray. Collect contaminated fire-fighting water separately.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Evacuate non-essential personnel. Wear the personal protective equipment specified in Section 8. Avoid breathing vapour, mist or spray. Avoid contact with skin and eyes. Ensure adequate ventilation. Remove all sources of ignition where the product is flammable.

6.2 Environmental precautions

Do not allow the product to enter drains, sewers, watercourses or groundwater. Prevent the material from spreading. Notify the relevant authorities if the product has entered a watercourse or sewer, or has contaminated soil or vegetation.

6.3 Methods and material for containment and cleaning up

Sweep up or absorb the material with an inert absorbent (sand, earth, vermiculite) and place in a labelled, closed container for disposal. Wash the contaminated area with water and detergent. Prevent entry into drains and watercourses.

6.4 Reference to other sections

See Section 8 for personal protection and Section 13 for disposal.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

- Keep containers tightly closed and labelled. Handle in well-ventilated areas, away from food, feed and drinking water.
- Avoid contact with skin, eyes and clothing. Do not breathe vapour, mist, dust or spray. Wash hands and face thoroughly after handling.
- Do not add water to the product and avoid contact with metals that may be attacked; use corrosion-resistant equipment.
- Use only in enclosed systems or under local exhaust ventilation; emergency escape-breathing apparatus must be available where there is a risk of exposure.
- Avoid skin contact; contaminated work clothing must not be allowed out of the workplace.
- Avoid release to the environment. Do not clean equipment or empty containers near water or drains.

7.2 Conditions for safe storage, including any incompatibilities

- Store in the original, tightly closed container in a cool, dry, well-ventilated place, protected from direct sunlight and frost.
- Keep locked up and out of the reach of children and unauthorised persons. Store separately from food, feed, seed and drinking water, and away from incompatible materials.
- Store in corrosion-resistant containers; avoid contact with metals.
- Observe the product label and any national storage restrictions for plant-protection products.

7.3 Specific end use(s)

Professional plant-protection product for agricultural / horticultural use. For professional users only. Observe the instructions for use, the conditions of authorisation and the restrictions on use stated on the product label.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Component	Limit value	Type	Basis
Not established for the mixture	—	—	No binding OEL listed in source; apply the general hygiene standards of good occupational practice and the precautionary measures in Section 8.

8.2 Exposure controls

Use only in well-ventilated areas, preferably under local exhaust ventilation. Mechanical ventilation should give at least 6 to 10 air changes per hour where the product is used. Avoid generating mist, dust or vapour.

Protective equipment	Requirement
Eye protection	Tight-fitting protective goggles (EN 166) conforming to the eye-protection requirement for the hazard class.
Face protection	Face shield where there is a risk of splashing.
Skin protection - hands	Chemical-resistant gloves (e.g. nitrile rubber, EN 374). Check permeation data and replace gloves when contaminated or at the end of the working period.
Skin protection - body	Long-sleeved protective clothing, closed footwear and, where spray is generated, an overall with hood conforming to the relevant EN standard.
Respiratory protection	Approved respirator with particulate / organic-vapour filter (e.g. EN 140/149) adequate for the measured exposure, or supplied-air apparatus in poorly ventilated spaces.

Do not eat, drink or smoke in work areas. Wash hands and face thoroughly after handling and before eating, drinking or smoking. Contaminated work clothing must not be allowed out of the workplace (see P272). Remove and wash contaminated clothing before reuse.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Property	Value
Physical state	Off-white liquid
Odour	Odorless
pH	NA
Solubility in water	Disperse in water
Explosive properties	Not classified as explosive
Oxidising properties	Not classified as oxidising

9.2 Other information - no additional information available.

10 STABILITY AND REACTIVITY

10.1 Reactivity

The product is stable under the recommended storage and handling conditions. No hazardous reaction is expected under normal conditions of use.

10.2 Chemical stability

Stable under normal temperature and pressure and the recommended storage conditions. Keep container tightly closed and protected from extreme temperatures.

10.3 Possibility of hazardous reactions

No hazardous polymerisation or reaction is expected under normal conditions. Contact with incompatible materials (see below) may liberate heat or hazardous gases.

10.4 Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources. Avoid prolonged or repeated exposure. Protect from direct sunlight and temperatures exceeding 50 °C.

10.5 Incompatible materials

Strong oxidising agents, strong acids and strong bases. Keep away from food, feed and drinking water.

10.6 Hazardous decomposition products

Combustion or thermal decomposition may form carbon oxides, nitrogen oxides and, where the molecule contains halogen, hydrogen chloride or hydrogen bromide.

11 TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Endpoint	Result	Species / basis
Acute toxicity - inhalation (LC50)	3.696 mg/l	rat
Acute toxicity (oral)	Classified - see hazard statements in Section 2	CLP cut-off / stated LD50
Acute toxicity (dermal)	Classified - see hazard statements in Section 2	CLP
Acute toxicity (inhalation)	Classified - see hazard statements in Section 2	CLP
Skin corrosion / irritation	Causes skin irritation (Category 2)	CLP
Serious eye damage / eye irritation	Causes serious eye damage (Category 1)	CLP
Respiratory / skin sensitisation	Skin sensitisation (Category 1)	CLP
Specific target organ toxicity	Classified for aquatic hazard - see Section 12	CLP

11.2 Symptoms and effects

Swallowing may be harmful or fatal; the product may cause nausea, vomiting and abdominal discomfort. Inhalation of vapour, mist or dust may irritate the respiratory tract and, at high exposure, affect the central nervous system. Eye contact causes serious irritation, pain and redness; may cause reversible or irreversible eye injury. Skin contact may cause an allergic skin reaction in sensitised individuals. See Section 4 for the detailed first-aid measures.

11.3 Other information

The acute toxicity data stated above are taken from the substance dossiers of the individual components. The classification in Section 2 reflects the applicable CLP hazard categories.

12 ECOLOGICAL INFORMATION

12.1 Toxicity

Organism	Result	Test condition
Fish (96 h LC50)	3.696 mg/l	relevant species, acute
Daphnia (48 h EC50)	297 ppm	acute
Algae (72 h EC50)	0.05 ppm	growth inhibition

12.2 Persistence and degradability

The active substance(s) are degraded in the environment by microbial and chemical processes. Do not rely on rapid degradation; observe label restrictions on use near water and groundwater.

12.3 Bioaccumulative potential

The active substance(s) are not expected to bioconcentrate to a significant extent under normal use conditions.

12.4 Mobility in soil

Mobility in soil is determined by adsorption to soil particles and by the physicochemical properties of the formulation. Leaching to groundwater should be prevented by observing the label instructions.

12.5 Results of PBT and vPvB assessment

On the basis of the available data the mixture is not classified as PBT (persistent, bioaccumulative and toxic) or vPvB (very persistent and very bioaccumulative) under Regulation (EC) No 1907/2006 (REACH).

12.6 Endocrine disrupting properties

No endocrine-disrupting properties are identified in accordance with the criteria of Commission Delegated Regulation (EU) 2017/2100.

12.7 Other adverse effects

Do not allow the product to enter drains, sewers, watercourses or groundwater. Toxic to aquatic organisms with long-lasting effects where so classified in Section 2.

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

The product and its container must be disposed of as hazardous waste in accordance with local, national and international regulations. Do not contaminate ponds, watercourses or ditches with the product or the empty container. Triple-rinse emptied containers and add the rinsings to the spray tank.

- Do not contaminate ponds, watercourses or ditches with the product or the empty container.
- Dispose of surplus product and non-recyclable packaging through a licensed hazardous-waste contractor, in accordance with national and local regulations.
- Empty containers retain product residues and vapour; observe all label safeguards until the container has been cleaned and destroyed.
- Triple-rinse emptied containers and add the rinsings to the spray tank; then puncture or crush and offer for recycling where facilities exist.

14 TRANSPORT INFORMATION

Parameter	ADR / RID	IMDG	IATA
UN number	3082	3082	3082
Proper shipping name	See proper shipping name	See proper shipping name	See proper shipping name
Class	ification of the substance or	ification of the substance or	ification of the substance or
Packing group	-	-	-
Environmental hazard	-	-	-
Tunnel code	-	-	-
EmS / Special	-	-	-

14.6 Special precautions for user

Do not transport together with foodstuffs, feed or drinking water. Ensure packages are upright, secure and clearly labelled. Personnel handling the product must be trained and equipped according to the applicable dangerous-goods regulations (ADR/RID, IMDG, IATA).

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable - the product is transported in packaged form only.

15 REGULATORY INFORMATION

15.1 Safety, health and environmental regulations / legislation specific for the substance or mixture

- Regulation (EC) No 1272/2008 (CLP) on classification, labelling and packaging of substances and mixtures.
- Regulation (EC) No 1907/2006 (REACH) concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.
- Regulation (EC) No 1107/2009 concerning the placing of plant-protection products on the market.
- Dangerous Goods regulations for transport: ADR/RID (road/rail), IMDG (sea) and IATA (air).
- Directive 2008/105/EC and Regulation (EC) No 2019/1021 (POP) where relevant for environmental release limits.

15.2 Chemical safety assessment

A chemical safety assessment has been carried out for the active substance(s) in accordance with Regulation (EC) No 1907/2006 (REACH) and the relevant conclusions are reflected in this safety data sheet. No further chemical safety assessment is required for this mixture.

16 OTHER INFORMATION

16.1 Revision information

This safety data sheet has been revised and reformatted to meet Regulation (EC) No 1272/2008 (CLP) and the GHS 16-section layout. The hazard classification, labelling elements and precautionary statements have been updated; technical data have been carried over from the previous issue.

16.2 Full text of hazard statements referred to in Sections 2 and 3

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H313	May be harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

16.3 Abbreviations and acronyms

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. ATE: Acute Toxicity Estimate. CAS: Chemical Abstracts Service. CLP: Classification, Labelling and Packaging (Regulation (EC) No 1272/2008). EC50: half maximal effective concentration. GHS: Globally Harmonised System. IMDG: International Maritime Dangerous Goods Code. LC50: lethal concentration, 50 %. LD50: lethal dose, 50 %. OEL: occupational exposure limit. PBT: persistent, bioaccumulative and toxic. PNEC: predicted no-effect concentration. STOT: specific target organ toxicity. vPvB: very persistent and very bioaccumulative.

16.4 Training advice

Users of this product must be trained in safe handling practice, in the correct use of personal protective equipment and in the first-aid measures described in Section 4. Label instructions and national training requirements apply.

16.5 Disclaimer

The information in this safety data sheet is based on the present state of knowledge and current legislation at the date of revision. It describes the product with regard to safety requirements and does not constitute a guarantee of any specific property. It remains the responsibility of the user to ensure that the product is used safely and in accordance with the label and applicable legislation. This safety data sheet is supplied for occupational health and safety purposes only.

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