



SHANGHAI BOSMAN INDUSTRIAL CO., LTD.

Add: Room 1804, No. 1611, North Sichuan Road, Hongkou District, Shanghai, P.R. China.

Tel: +86 21 63065878 | **Fax:** +86 21 63065878 | **E-mail:** info@bosmangroup.com

Website: www.bosmanagrochem.net

Version: 1.0 Issue date: Oct. 10. 2023

MATERIAL SAFETY DATA SHEET OF PICLORAM + CLOPYRALID 30% SL

1. IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Supplier: Shanghai Bosman Industrial Co., Ltd.

Street address: No. 1611, North Sichuan Road, Hongkou District, Shanghai, P.R. China.

FAX: +86 21 63065878

TEL: +86 21 63065878

Product name: Picloram + Clopyralid 30% SL

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Chronic Aquatic Toxicity Category 4 - (H413)

Additional information

For the full text of the H-Statements mentioned in this Section, see Section 16

2.2 Label elements

Labeling according to Regulation (EC) No. 1272/2008 [CLP]

signal word: None

Hazard Statements

H413 - May cause long lasting harmful effects to aquatic life

Precautionary statements

P501 - Dispose of contents/ container in accordance with national regulation

EU Specific Hazard Statements

EUH401 - To avoid risks to human health and the environment, comply with the instructions for use

2.3 Other Hazards

No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formulation Type: Soluble liquid (SL)



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Other ingredients determined not to be hazardous

Ingredient	CAS NO.	Proportion
Picloram	1918 - 02 - 1	6%
Clopyralid	1702 - 17 - 6	24%
other ingredients	Not available	Balance

4. FIRST AID MEASURES

General advice: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

If inhalation: Move to fresh air. Call a POISON CENTER or doctor if you feel unwell

If eye contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists, consult a specialist.

If skin contact: Wash off immediately with plenty of water if symptoms persist, call a physician.

If ingestion: Rinse mouth with water. Call a POISON CENTER or doctor if you feel unwell.

NOTE TO PHYSICIAN: Supportive care. Treatment based on judgement of the physician in response to symptoms of the patient.

5. FIRE FIGHTING MEASURES

Extinguishing media: Water fog, foam, carbon dioxide or dry chemical.

Hazardous Combustion Products: May emit toxic fumes of hydrogen chloride or phosgene if involved in fires or exposed to extreme heat.

Advice for Firefighters: Wear self-contained breathing apparatus and protective suit.

6. ACCIDENT RELEASE MEASURES

Personal precautions: Wear appropriate safety clothing and eye/face protection (see section 8). Prevent skin contact.

Environmental precautions: Do not wash into sewers or into any body of water. Advise water authority if spillage has entered water course or drainage system.

Methods of clearing up: Soak up with sand or other non-combustible absorbent material and place into containers for disposal. For large spills, barricade area and consult manufacturer. If further assistance is required, telephone the emergency contact number.



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7. HANDLING AND STORAGE

Handling: Use good personal hygiene. Do not consume or store food in the work area. Wash hands and exposed skin before eating, drinking or smoking and after work. Avoid skin contact. Remove contaminated clothing immediately and wash skin area with plenty of water.

Storage: Product should be stored in compliance with local regulations. Store in a cool, dry, well-ventilated place in the original container. Protect from excessive heat and cold. Do not store near food, drink, animal feeding stuffs, pharmaceuticals, cosmetics or fertilisers. Keep out of reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls: Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

Hygiene Measures: Do not eat, drink or smoke while using. Remove protective clothing and wash hands and face thoroughly before meals and after work. Wash protective clothing daily after work. Wash splashes of concentrate from skin immediately.

Respiration protection:

When airborne exposure guidelines and/or comfort levels may be exceeded, use an approved air-purifying respirator. For emergency conditions, use an approved positive-pressure self-contained breathing apparatus.

Eye/face protection:

Use safety glasses. Where contact with the liquid is likely, chemical goggles are recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: Liquid
Appearance	: NA
Odour	: NA
pH	: NA
Explosion Properties	: Not explosive
Oxidising properties	: Not Oxidising

10. STABILITY AND REACTIVITY

Reactivity: No information available

Chemical stability: Stable under normal conditions

Possibility of hazardous reactions: None under normal processing



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Conditions to avoid: Keep away from open flames, hot surfaces and sources of ignition

Incompatible Materials: No materials to be especially mentioned

Hazardous Decomposition Products: Carbon oxides, Nitrogen oxides(NO_x), Chloride compounds

11. TOXICOLOGICAL INFORMATION

For Picloram TC

Acute toxicity

Oral Acute oral LD₅₀ for male rats >5000, mice 2000 – 4000, rabbits c. 2000, guinea pigs c. 3000, sheep >1000, cattle >750 mg/kg. Skin and eye Acute percutaneous LD₅₀ for rabbits >2000 mg/kg. Moderate eye irritant; mild skin irritant (rabbits). No skin sensitisation. Inhalation LC₅₀ for male and female rats >0.035 mg/l.

Chronic toxicity

NOEL (2 y) for rats 20 mg/kg daily.

For Clopyralid TC

Oral Acute oral LD₅₀ for male rats 3738, female rats 2675 mg/kg. Skin and eye Acute percutaneous LD₅₀ for rabbits >2000 mg/kg. Severe eye irritant; not a skin irritant. Inhalation LC₅₀ (4 h) for rats >0.38 mg/l.

Chronic toxicity:

NOEL (2 y) for rats 15, male mice 500, female mice >2000 mg/kg b.w. daily.

Other

Non-carcinogenic, non-mutagenic, non-teratogenic, and produces no significant toxicological effects on reproductive parameters.

12. ECOLOGICAL INFORMATION

For Picloram TC

Birds Acute oral LD₅₀ for chicks c. 6000 mg/kg. LC₅₀ for mallard ducks and bobwhite quail >5000 mg/kg diet.

Fish LC₅₀ (96 h) for rainbow trout 5.5, bluegill sunfish 14.5 mg/l.

Daphnia LC₅₀ 34.4 mg/l.

Algae EC₅₀ for Selenastrum 36.9 mg/l.

Other aquatic spp. LC₅₀ for pink shrimps 10.3 mg/l.



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Bees LD50 for honeybees >100 µg/bee.

Worms Practically non-toxic to earthworms.

Other beneficial spp. No effect on soil microbial respiration.

For Clopyralid TC

Birds Acute oral LD50 for mallard ducks 1465, bobwhite quail >2000 mg/kg. Dietary LC50 (5 d) for mallard ducks and bobwhite quail >4640 mg/kg diet.

Fish LC50 (96 h) for rainbow trout 103.5, bluegill sunfish 125.4 mg/l.

Daphnia EC50 (48 h) 225 mg/l. EC50 (21 d) immobilisation 69, reproduction 80 mg/l; NOEC 17 mg/l.

Algae EC50 (96 h) for *Selenastrum capricornutum*, cell count 6.9, cell volume 7.3 mg/l.

Other aquatic spp. EC50 (14 d) for *Lemna gibba* 89 mg/l.

Bees Non-toxic to bees. LD50 (48 h, oral and contact) >100 µg/bee.

Worms LC50 (14 d) for earthworms >1000 mg/kg soil.

Other beneficial spp. No effect on nitrification, nitrogen fixation or degradation of cellulose, starch, protein and leaf material at 1 – 10 ppm.

13. DISPOSAL CONSIDERATION

Product Disposal Dispose of product only by using according to the label, or at an approved landfill.

Container Disposal Triple rinse empty container and add rinsate to the spray tank. Recycle empty container. Otherwise crush and bury in a suitable landfill.

14. TRANSPORT INFORMATION

UN: 3082

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Contains Picloram and Clopyralid)

Class: 9

Packing Group: III

15. REGULATORY INFORMATION

Follow all local and international laws and regulations.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3



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- H302-Harmful if swallowed
- H312-Harmful in contact with skin
- H314-Cause severe skin burns and eye damage
- H318-Cause serious eye damage
- H332-Harmful if inhaled
- H413-May cause long lasting harmful effects to aquatic life

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This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made the user should contact the company.

-- END OF MSDS --