

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Cyhalofop-butyl 20% EC

Trade Name: PLANTINO

CAS No.: 122008-85-9

Molecular Weight: 357.4

Chemical Formula: C₂₀H₂₀FNO₄

Supplier and Authorized Exporter: Shenzhen Yancheng Chemicals Co., Limited

Located at 12B, Xinhaofang Building, 11018 Shennan Road, Nanshan District,
Shenzhen-518051, China

Tel No.: +86.755.86182089 86182189 86182289 86182299

Fax No.: +86.755.86182678

E-mail: tech@yanchengchem.com director@yanchengchem.com

2. HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

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

2.2 Label elements

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

Pictogram(s)



GHS07



GHS09

Signal word

Warning

Hazard statement(s)

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P264 Wash ... thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302 + P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P338 IF ON EYES: Rinse carefully with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P321 Specific treatment (see ... on this label).

P332+P313 IF SKIN irritation occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P362+P364 Take off contaminated clothing. And wash it before reuse.

P391 Collect spillage.

P501 Dispose of contents/container to ...

3. COMPOSITION INFORMATION

Ingredient		CAS No.	Content
Active ingredient	Cyhalofop-butyl	122008-85-9	20% (w/v)
Inert	Not listed		Up to 100%

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

Move person to fresh air, if effects occur, consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Immediately flush eyes with water, remove contact lenses, if present, after the first 5 minutes, then continue flushing eyes for at least 15 minutes. Obtain medical attention without delay, preferably an ophthalmologist.

If swallowed

Seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

Note of Physician

No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

4.2 Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

5. FIRE FIGHTING MEASURES

5.1 Suitable extinguishing media

Use water fog or fine spray, carbon dioxide, dry chemical or foam. Alcohol resistant foams (ATC type) are preferred if available. General-purpose synthetic foams (including AFFF) or protein foams may function, but much less effectively. DO NOT USE DIRECT WATER STREAM.

5.2 Special hazards arising from the substance or mixture

During a fire, smoke may contain the original material in addition to unidentified toxic and / or irritating compounds. Hazardous combustion products may include and are not limited to nitrogen oxides, hydrogen fluoride, carbon monoxide, and/or carbon dioxide.

5.3 Advice for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire-fighting clothing (includes fire fighting helmet, coat, pants, boots and gloves). If protective equipment is not available or not

used, fight fire from a protected location or safe distance.

5.4 Other flammability information

Dense smoke is produced when product burns. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids. Vapors are heavier than air and may travel a long distance and accumulate in low-lying areas. Ignition and/or flash back may occur.

5.5 Fire-fighting instructions

Keep people away. Isolate fire area and deny unnecessary entry. Stay upwind. Keep out of low areas where gases (fumes) can accumulate. Consider feasibility of a controlled burn to minimize environmental damage. Foam fire extinguishing system is preferred because uncontrolled water can spread possible contamination. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage. Burning liquids may be extinguished by dilution with water. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of re-ignition has passed. Do not use direct water stream. May spread fire. Eliminate ignition sources. Contain firewater run-off if possible. Fire water run-off, if not contained may cause environmental damage. Review the "Accidental Release Measures" and "Ecological Information" sections of this MSDS.

6. ACCIDENTAL RELEASE MEASURES

6.1 Action to take for spills/leaks

Vapor explosion hazard, keep out of sewers. Eliminate all sources of ignition in vicinity of spill or released vapor to avoid fire or explosion.

Absorb small spills with a non-reactive absorbent material such as sand or Zorbball and place in a container suitable for disposal.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Keep out of reach of children. Do not swallow. Avoid skin and eye contact. Avoid breathing vapors. Container's, even those that have been emptied, can contain vapors. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers. Use of non-sparking or explosion proof equipment may be necessary, depending upon the type of operation. No smoking, open flames or sources of ignition in handling and storage area.

7.2 Conditions for safe storage, including any incompatibilities

Minimize sources of ignition, such as static build-up, head, spark, or flame.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure guidelines

These precautions are suggested for conditions where the potential for exposure exists. Emergency conditions may require additional precautions.

Xylene range aromatic solvent: none established. Supplier recommends a guideline of 50 ppm for the total product which is a mixture of petroleum hydrocarbons.

8.2 Engineering controls

Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines.

8.3 Personal protective equipment

Eye/face protection

Use chemical goggles.

Skin protection

Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur.

Body Protection

Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Atmospheric levels should be maintained below the exposure guideline. When respiratory protection is required for certain operations, use a NIOSH approved air-purifying respirator.

Applicators and all other handlers

Refer to the product label for personal protective clothing and equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Amber to brown liquid
Odour	Slight aromatic
Odour threshold	No data available
pH	6.0 - 8.0
Melting point/freezing point	Not determined
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid,gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	Not determined
Vapour density	No data available
Relative density	No data available
Solubility (ies)	Emulsifiable in water

10. STABILITY AND REACTIVITY

10.1 Chemical stability

Material is stable under recommended storage conditions. Product can decompose at elevated temperatures.

10.2 Hazardous decomposition

Hazardous decomposition products depend upon temperature, air supply and the presence of other materials.

10.3 Incompatible materials

Avoid contact with oxidizing materials.

10.4 Hazardous polymerization

Not known to occur.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Potential health effects

This section includes possible adverse effects, which could occur if this material is not handled in the recommended manner.

Eye

May cause moderate eye irritation, which may be slow to heal. May cause moderate corneal injury.

Skin

Prolonged contact may cause slight skin irritation with local redness. Prolonged skin contact is unlikely to result in absorption of harmful amounts. The LD50 for skin absorption in rabbits is >5000 mg/kg. Did not cause allergic skin reactions when tested in guinea pigs.

Ingestion

Low toxicity if swallowed. Small amounts swallowed incidental to normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause injury. The oral LD 50 for rats is 1612 to <5000 mg/kg.

Inhalation

No adverse effects are anticipated from single exposure to vapor. Prolonged exposure is not expected to cause adverse effects. The LC50 for rats is >5.19 mg/L.

Systemic (other target organ) effects

Repeated exposure did not produce systemic toxicity when applied to the skin of rats.

Cancer information

No relevant information found.

Teratology (birth defects)

No data available

Reproductive effects

No data available

Aspiration hazard

No data available

Additional information

No data available

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicology

Based largely or completely on information for the active ingredient.

Material is highly toxic to aquatic organisms on an acute basis (LC₅₀ or EC₅₀ is between 0.1 and 1 mg/L in most sensitive species).

12.2 Persistence and degradability

Based largely or completely on information for the active ingredient.

Material is inherently biodegradable.

Reaches more than 20% biodegradation in OECD test for inherent biodegradability.

Based largely or completely on information for the components in the solvent.

Biodegradation under aerobic static laboratory conditions is low (BOD₂₀ or BOD₂₈/ ThOD is between 2.5 and 10%).

13. DISPOSAL CONSIDERATION

13.1 Waste treatment methods

Disposal method

If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. If the material as supplied becomes a waste, follow all applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

14.1 UN Number

ADR/RID: 3082

IMDG: 3082

IATA: 3082

14.2 UN Proper Shipping Name

ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

IATA: Environmentally Hazardous Substance, Liquid, N.O.S.

14.3 Transport hazard class

ADR/RID: 9

IMDG: 9

IATA: 9

14.4 Packing group

ADR/RID: III

IMDG: III

IATA: III

14.5 Environmental hazards

ADR/RID: Yes

IMDG Marine pollutant: Yes

IATA: Yes

15. REGULATORY INFORMATION

15.1 Labeling according to Regulation (EC) No 1272/2008

Pictogram(s)



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GHS09

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16. OTHER INFORMATION

Disclaimer:

The manufacture provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. The manufacture makes no representations or express or implied, including without limitation any warranties of merchantability fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly, the manufacture will not be responsible for damages resulting from use of or reliance upon this information.
