FITRAKOL 75 WP



Version Revision Date: SDS Number: Date of last issue: -

1.0 2025/02/24 50002946 Date of first issue: 2025/02/24

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : FITRAKOL 75 WP

Other means of identification : CHLOROTHALONIL 75% WP

Recommended use of the chemical and restrictions on use

Recommended use : Can be used as fungicide only.

Restrictions on use : Use as recommended by the label.

Manufacturer or supplier's details

Company : FMC Corporation

Address : 2929 Walnut Street

Philadelphia PA 19104

USA

Telephone : 1 215 / 299-6000 (Corporate of

E-mail address : SDS-Info@fmc.com

Emergency telephone : For leak, fire, spill or accident emergencies, call:

001-803-017-9114 (CHEMTREC)

1 703 / 741-5970 (CHEMTREC - International)

Medical emergency: 0800 140 1447

2. HAZARDS IDENTIFICATION

GHS Classification

Acute toxicity (Inhalation) : Category 2

Skin corrosion/irritation : Category 2

Serious eye damage/eye irri-

tation

Category 2B

Carcinogenicity : Category 2

Specific target organ toxicity - :

single exposure

Category 3 (Respiratory system)

FITRAKOL 75 WP



Version SDS Number: Date of last issue: -Revision Date:

2025/02/24 50002946 Date of first issue: 2025/02/24 1.0

Short-term (acute) aquatic

hazard

Category 1

Long-term (chronic) aquatic

hazard

Category 1

GHS label elements

Hazard pictograms







Signal Word DANGER

Hazard Statements H315 + H320 Causes skin and eye irritation.

H330 Fatal if inhaled.

H335 May cause respiratory irritation. H351 Suspected of causing cancer.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements

Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe dust.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protec-

tion/ face protection.

P284 Wear respiratory protection.

Response:

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

P304 + P340 + P310 IF INHALED: Remove person to fresh air

and keep comfortable for breathing. Immediately call a

POISON CENTER/ doctor.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

P308 + P313 IF exposed or concerned: Get medical advice/

attention.

P332 + P313 If skin irritation occurs: Get medical advice/ atten-

P337 + P313 If eye irritation persists: Get medical advice/ at-

tention.

P362 + P364 Take off contaminated clothing and wash it before

reuse.

P391 Collect spillage.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container

tightly closed.

FITRAKOL 75 WP



Version SDS Number: Date of last issue: -**Revision Date:**

2025/02/24 50002946 1.0 Date of first issue: 2025/02/24

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
chlorothalonil (ISO)	1897-45-6	>= 70 -< 90

4. FIRST AID MEASURES

General advice Move out of dangerous area.

Consult a physician.

Show this material safety data sheet to the doctor in attend-

Symptoms of poisoning may appear several hours later.

Do not leave the victim unattended.

If inhaled Call a physician or poison control center immediately.

If unconscious, place in recovery position and seek medical

advice.

In case of skin contact Wash off with soap and water.

Get medical attention if irritation develops and persists.

Flush eyes with water as a precaution. In case of eye contact

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed Induce vomiting immediately and call a physician.

Keep respiratory tract clear.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician. Take victim immediately to hospital.

Most important symptoms

delayed

and effects, both acute and

Fatal if inhaled.

May cause respiratory irritation. Suspected of causing cancer.

Causes skin and eye irritation.

Notes to physician Treat symptomatically.

FITRAKOL 75 WP



Version Revision Date: SDS Number: Date of last issue: -

1.0 2025/02/24 50002946 Date of first issue: 2025/02/24

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Dry chemical, CO2, water spray or regular foam.

Unsuitable extinguishing

media

High volume water jet

Do not spread spilled material with high-pressure water

streams.

Specific hazards during fire

fighting

Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion prod-

ucts

Thermal decomposition can lead to release of toxic and irritat-

ing vapors.

Nitrogen oxides (NOx)
Hydrogen cyanide
Chlorinated compounds
Hydrogen chloride
Carbon oxides

Specific extinguishing meth-

ods

Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment :

for fire-fighters

Firefighters should wear protective clothing and self-contained

breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec: :

tive equipment and emer-

gency procedures

Use personal protective equipment.

Avoid dust formation. Avoid breathing dust.

Ensure adequate ventilation.
Evacuate personnel to safe areas.

Environmental precautions : Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for

containment and cleaning up

Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Advice on protection against

fire and explosion

Avoid dust formation.

Provide appropriate exhaust ventilation at places where dust

is formed.

Advice on safe handling : Avoid formation of respirable particles.

Do not breathe vapors/dust.

FITRAKOL 75 WP



Version Revision Date: SDS Number: Date of last issue: -

1.0 2025/02/24 50002946 Date of first issue: 2025/02/24

Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Provide sufficient air exchange and/or exhaust in work rooms.

Dispose of rinse water in accordance with local and national

regulations.

Conditions for safe storage : Prevent unauthorized access.

Keep container tightly closed in a dry and well-ventilated

place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage. Observe label precautions.

Electrical installations / working materials must comply with

the technological safety standards.

Further information on stor-

age stability

No decomposition if stored and applied as directed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate local exhaust

ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Filter type : Particulates type

Hand protection

Material : Wear chemical resistant gloves, such as barrier laminate,

butyl rubber or nitrile rubber.

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Skin and body protection : Choose body protection according to the amount and con-

centration of the dangerous substance at the work place.

Protective measures : Plan first aid action before beginning work with this product.

Always have on hand a first-aid kit, together with proper in-

structions.

Hygiene measures : Avoid contact with skin, eyes and clothing.

When using do not eat or drink. When using do not smoke.

5/15

FITRAKOL 75 WP



Version 1.0

Revision Date: 2025/02/24

SDS Number: 50002946

Date of last issue: -

Date of first issue: 2025/02/24

Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : solid

Form : fine powder

Color : blue

Odor : slight, pungent

pH : No data available

Melting point/freezing point : No data available

Boiling point/boiling range : No data available

Flash point : Not applicable

Flammability (solid, gas) : Does not sustain combustion.

Self-ignition : not auto-flammable

Density : No data available

Bulk density : No data available

Solubility(ies)

Water solubility : No data available

Partition coefficient: n-

octanol/water

: No data available

Viscosity

Viscosity, kinematic : Not applicable

Explosive properties : Not explosive

Oxidizing properties : Non-oxidizing

10. STABILITY AND REACTIVITY

FITRAKOL 75 WP



Version Revision Date: SDS Number: Date of last issue: -

1.0 2025/02/24 50002946 Date of first issue: 2025/02/24

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reac-

tions

No decomposition if stored and applied as directed.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : Strong bases

Hazardous decomposition

products

No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Fatal if inhaled.

Product:

Acute oral toxicity : LD50 (Rat, male and female): > 5.000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 0,13 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist Method: Acute toxicity estimate

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg

Components:

chlorothalonil (ISO):

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 0,1 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Product:

Species : Rabbit Result : Skin irritation

Components:

chlorothalonil (ISO):

Species : Rabbit

FITRAKOL 75 WP



Version Revision Date: SDS Number: Date of last issue: -

1.0 2025/02/24 50002946 Date of first issue: 2025/02/24

Result : Mild skin irritant

Serious eye damage/eye irritation

Causes eye irritation.

Product:

Species : Rabbit

Result : Mild eye irritation

Components:

chlorothalonil (ISO):

Species : Rabbit

Result : Irreversible effects on the eye

Respiratory or skin sensitization

Skin sensitization

Based on available data, the classification criteria are not met.

Respiratory sensitization

Based on available data, the classification criteria are not met.

Product:

Species : Guinea pig

Result : Not a skin sensitizer.

Components:

chlorothalonil (ISO):

Result : May cause sensitization by skin contact.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Components:

chlorothalonil (ISO):

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro

Result: positive

Genotoxicity in vivo : Test Type: Micronucleus test

Result: negative

Test Type: chromosome aberration assay

Result: negative

Germ cell mutagenicity -

Assessment

Weight of evidence does not support classification as a germ

cell mutagen.

FITRAKOL 75 WP



Version Revision Date: SDS Number: Date of last issue: -

1.0 2025/02/24 50002946 Date of first issue: 2025/02/24

Carcinogenicity

Suspected of causing cancer.

Components:

chlorothalonil (ISO):

Carcinogenicity - Assess-

ment

: Limited evidence of carcinogenicity in animal studies

Reproductive toxicity

Based on available data, the classification criteria are not met.

Components:

chlorothalonil (ISO):

Reproductive toxicity - As-

sessment

: Weight of evidence does not support classification for repro-

ductive toxicity

STOT-single exposure

May cause respiratory irritation.

Components:

chlorothalonil (ISO):

Assessment : May cause respiratory irritation.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Components:

chlorothalonil (ISO):

Assessment : The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

Repeated dose toxicity

Components:

chlorothalonil (ISO):

Species : Rat
NOAEL : 1,8 mg/kg
Application Route : Oral
Exposure time : 26 months

Species : Rat
NOAEL : 1,5 mg/kg
Application Route : Oral
Exposure time : 90 d

Aspiration toxicity

Based on available data, the classification criteria are not met.

FITRAKOL 75 WP



Version Revision Date: SDS Number: Date of last issue: -

1.0 2025/02/24 50002946 Date of first issue: 2025/02/24

Further information

Product:

Remarks : No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

chlorothalonil (ISO):

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 0,059 mg/l

Exposure time: 96 h Test Type: static test

LC50 (Oncorhynchus mykiss (rainbow trout)): 0,039 mg/l

Exposure time: 96 h Test Type: static test

LC50 (Pimephales promelas (fathead minnow)): 0,023 mg/l

Exposure time: 96 h Test Type: static test

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia): 0,07 mg/l

Exposure time: 48 h Test Type: static test

LC50 (Penaeus duorarum (Pink shrimp)): 165

Exposure time: 96 h

Toxicity to algae/aquatic

plants

NOEC (Selenastrum capricornutum (green algae)): 0,1 mg/l

Exposure time: 120 h

NOEC (Selenastrum capricornutum (green algae)): 0,05 mg/l

Exposure time: 72 h

EC50 (Selenastrum capricornutum (green algae)): 0,2 mg/l

Exposure time: 120 h

EC50 (Selenastrum capricornutum (green algae)): 0,13 mg/l

Exposure time: 72 h

EC50 (Navicula pelliculosa (Freshwater diatom)): 0,0051 mg/l

Exposure time: 72 h

EC50 (Lemna gibba (duckweed)): 0,51 mg/l

Exposure time: 14 d

M-Factor (Acute aquatic tox-

icity)

100

M-Factor (Chronic aquatic : 10

10/15

FITRAKOL 75 WP



Version Revision Date:

2025/02/24

SDS Number: 50002946

Date of last issue: -

Date of first issue: 2025/02/24

toxicity)

1.0

Toxicity to soil dwelling or-

ganisms

: LC50 (Eisenia fetida (earthworms)): > 404 mg/kg

Exposure time: 14 d

Toxicity to terrestrial organ-

isms

LD50 (Apis mellifera (bees)): > 101 µg/bee

End point: Acute contact toxicity

LD50 (Anas platyrhynchos (Mallard duck)): > 4.640 mg/kg

LD50 (Apis mellifera (bees)): > 63 μg/bee

End point: Acute oral toxicity

LC50 (Colinus virginianus (Bobwhite quail)): > 10.000 mg/kg

Exposure time: 5 d

LC50 (Anas platyrhynchos (Mallard duck)): > 10.000 mg/kg

Exposure time: 5 d

LD50 (Colinus virginianus (Bobwhite quail)): > 2.000 mg/kg

Persistence and degradability

Components:

chlorothalonil (ISO):

Stability in water : Degradation half life (DT50): 38 d (22 °C) pH: 9

Bioaccumulative potential

Components:

chlorothalonil (ISO):

Bioaccumulation : Remarks: Low potential for bioaccumulation

Partition coefficient: n-

octanol/water

log Pow: 2,92

Mobility in soil

Components:

chlorothalonil (ISO):

Distribution among environ-

mental compartments

: Koc: 850 - 7000 ml/g

Remarks: Low mobility in soil.

Stability in soil

Other adverse effects

Product:

Additional ecological infor-

mation

An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

FITRAKOL 75 WP



Version SDS Number: Date of last issue: -**Revision Date:**

2025/02/24 50002946 Date of first issue: 2025/02/24 1.0

Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with chemi-

cal or used container.

Send to a licensed waste management company.

Contaminated packaging Empty remaining contents.

> Dispose of as unused product. Do not re-use empty containers.

14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number UN 2588

Proper shipping name PESTICIDE, SOLID, TOXIC, N.O.S.

(chlorothalonil)

Class 6.1 Packing group Ш Labels 6.1 Environmentally hazardous yes

IATA-DGR

UN/ID No. UN 2588

Proper shipping name Pesticide, solid, toxic, n.o.s.

(chlorothalonil)

Class 6.1 Packing group Ш Toxic Labels Packing instruction (cargo 676

aircraft)

Packing instruction (passen-669

ger aircraft)

Environmentally hazardous yes

IMDG-Code

UN number UN 2588

Proper shipping name PESTICIDE, SOLID, TOXIC, N.O.S.

(chlorothalonil)

Class 6.1 Packing group Ш Labels 6.1 F-A, S-A EmS Code Marine pollutant yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

FITRAKOL 75 WP



Version Revision Date: SDS Number: Date of last issue: -

1.0 2025/02/24 50002946 Date of first issue: 2025/02/24

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

15. REGULATORY INFORMATION

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

Minister of Industry Regulation No. 23/M-IND/PER/4/2013 concerning the Revision of Minister of Industry Regulation No. 87/M-IND/PER/9/2009 concerning Globally Harmonized System of Classification and Labelling of Chemicals.

Regulation of the Minister of Health No. 472 of 1996 on the Safeguarding of Substances Hazardous to Health

Hazardous substances that must be registered : Not applicable

Government Regulation No. 74 of 2001 on the Management of Hazardous and Toxic Substances

Hazardous substances approved for use : Not applicable

Prohibited substances : Not applicable

Restricted substances : Not applicable

Regulation of the Ministry of Trade No. 7 of 2022 on Distribution and Control of Hazardous Materials

Type of hazardous materials subject to distribution and : Not applicable

control, Annex I

Type of hazardous materials subject to distribution and : Not applicable

control, Annex II

The ingredients of this product are reported in the following inventories:

TCSI : On the inventory, or in compliance with the inventory

TSCA : All substances listed as active on the TSCA inventory

AIIC : On the inventory, or in compliance with the inventory

DSL : All components of this product are on the Canadian DSL

ENCS : On the inventory, or in compliance with the inventory

ISHL : On the inventory, or in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory

FITRAKOL 75 WP



Version Revision Date: SDS Number: Date of last issue: -

1.0 2025/02/24 50002946 Date of first issue: 2025/02/24

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

NZIoC : On the inventory, or in compliance with the inventory

TECI: Not in compliance with the inventory

16. OTHER INFORMATION

Revision Date : 2025/02/24

Date format : yyyy/mm/dd

Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate: NOM - Official Mexican Norm: NTP - National Toxicology Program: NZIoC - New Zealand Inventory of Chemicals: OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods: vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

FITRAKOL 75 WP



Version Revision Date: SDS Number: Date of last issue: -

1.0 2025/02/24 50002946 Date of first issue: 2025/02/24

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