

SAFETY DATA SHEET Clothianidin 48% SC (600g ai/L)

SDS #: 7523-A

Revision date: 2021-11-03 Format: AP

Version 2

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name Clothianidin 48% SC (600g ai/L)

Product Code(s) 7523-A

Active Ingredient(s) Clothianidin Technical (98%)

Chemical Family Neonicotinoid

Recommended Use: Insecticide

Restrictions on Use: Use as recommended by the label.

Manufacturer/Supplier

FMC Corporation 2929 Walnut Street Philadelphia, PA 19104

(215) 299-6000 (General Information)

SDS-Info@fmc.com (E-Mail General Information)

Emergency telephone Medical Emergencies: 0800 140 1447

For leak, fire, spill or accidents: 001-803-017-9114 (CHEMTREC Indonesia)

1 703 741-5970 (CHEMTREC – International)

Section 2: HAZARDS IDENTIFICATION

GHS Classification

Acute aquatic toxicity	Category 1
Chronic aquatic toxicity	Category 1

Label Elements



Signal Word: WARNING

Hazard Statements

H410 - Very toxic to aquatic life with long lasting effects

Precautionary Statements - Prevention P273 - Avoid release to the environment

Precautionary Statements - Response

Format: AP

Revision date: 2021-11-03

Version 2

P312 - Call a POISON CENTER or doctor if you feel unwell

P391 - Collect spillage

Precautionary Statements - Disposal

P501 - Dispose of contents/container to an approved waste disposal plant

Other Information

No hazards not otherwise classified were identified.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS-No	Weight %
Clothianidin	210880-92-5	48
Propylene glycol	57-55-6	<5
Sodium Hydroxide	1310-73-2	<1
Methyl ethyl ketone	78-93-3	<1

Section 4: FIRST AID MEASURES

Inhalation Move to fresh air. If person is not breathing, contact emergency medical services, then give

artificial respiration, preferably mouth-to-mouth, if possible. Call a physician or poison

control center immediately.

Skin Contact Remove contaminated clothing and shoes. Wash off immediately with plenty of water for at

least 15 minutes. Seek immediate medical attention/advice. Call a poison control center or

doctor for further treatment advice.

Eye Contact Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact

lenses, if present, after the first 5 minutes, then continue rinsing. Call a physician

immediately.

Ingestion Call a physician or poison control center immediately. Rinse mouth. Drink 1 or 2 glasses of

water. Do not induce vomiting unless told to do so by a poison control center or doctor. Never give anything by mouth to an unconscious person. If swallowed, do not induce

vomiting - seek medical advice.

Most important symptoms and effects, both acute and delayed

Asthma-like and/or skin allergy-like symptoms.

Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

Flammable properties Not combustible

Suitable Extinguishing Media Water spray. Carbon dioxide (CO₂). Foam. Dry chemical. Cool containers / tanks with water

spray.

Unsuitable extinguishing media Avoid heavy hose streams.

Specific Hazards Arising from the

Chemical

Keep product and empty container away from heat and sources of ignition.

Protective equipment and precautions for firefighters

Isolate fire area. Evaluate upwind. As in any fire, wear self-contained breathing apparatus

and full protective gear.

Section 6: ACCIDENTAL RELEASE MEASURES

Clothianidin 48% SC (600g ai/L)

SDS #: 7523-A Format: AP

Revision date: 2021-11-03

Version 2

Personal Precautions In case of spill, avoid contact. Isolate area and keep out animals and unprotected persons.

Remove all sources of ignition. Heat, flames and sparks. Ensure adequate ventilation.

Other For further clean-up instructions, call FMC Emergency Hotline number listed in Section 1

"Product and Company Identification" above.

Environmental Precautions Prevention of fire and explosion. A vapor suppressing foam may be used to reduce vapors.

Try to prevent the material from entering drains or water courses. Do not allow material to contaminate ground water system. Vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder,

sawdust). Pick up and transfer to properly labeled containers. Keep in suitable and closed containers for disposal. Clean contaminated surface thoroughly. Dispose of in accordance

with all applicable national environmental laws and regulations.

Section 7: HANDLING AND STORAGE

Handling Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from

open flames, hot surfaces and sources of ignition. Keep out of reach of children and

animals. Store in original container.

Materials to avoid Strong oxidizing agents, Strong acids, Strong bases.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

Component	China	Japan	Korea	Australia	Taiwan
Propylene glycol				TWA 150 ppm	
57-55-6 (<5)				TWA 474 mg/m ³	
				TWA 10 mg/m ³	
Sodium Hydroxide	Ceiling: 2 mg/m ³	Ceiling: 2 mg/m ³	Ceiling: 2 mg/m ³	Peak 2 mg/m ³	STEL 4 mg/m ³
1310-73-2 (<1)					
Methyl ethyl ketone	TWA: 300 mg/m ³	OEL: 200 ppm	STEL: 300 ppm	STEL 300 ppm	STEL 250 ppm
78-93-3 (<1)	STEL: 600 mg/m ³	OEL: 590 mg/m ³	TWA: 200 ppm	STEL 890 mg/m ³	STEL 737.5 mg/m ³
, ,		ISHL/ACL: 200 ppm		TWA 150 ppm	
		1		TWA 445 mg/m ³	

Engineering measures Apply technical measures to comply with the occupational exposure limits.

Personal protective equipment

Respiratory ProtectionThe product does not automatically present an airborne exposure concern during normal

handling. In the event of an accidental discharge of the material which produces a heavy vapour or mist, workers should put on officially approved respiratory protection equipment

with a universal filter type including particle filter.

Hand Protection Wear chemical protective gloves made of materials such as nitrile or neoprene.

Eye/Face Protection Tightly fitting safety goggles.

Skin and Body Protection Wear suitable protective clothing.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

Format: AP **Revision date: 2021-11-03**

Version 2

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State Liquid

White Suspension **Appearance**

Odor Odorless White Color

Not applicable **Odor threshold**

4-8 Hq

Melting point/freezing point Not applicable 93 °C

Boiling Point/Range

Flash point No information available Not applicable

Evaporation Rate Flammability (solid, gas)

Not flammable

Flammability Limit in Air

Upper flammability limit: Not flammable Lower flammability limit: Not flammable Not applicable Not applicable

Specific gravity 1.225

No information available Water solubility

Solubility(ies) Not applicable **Partition coefficient** Not applicable Not applicable **Autoignition temperature** Decomposition temperature Not applicable

Viscosity, kinematic

Vapor pressure

Vapor density

55 mPa s @ 20 deg. C Viscosity, dynamic Molecular weight No data available Relative density 1.225 g/mL @ 20°C **Bulk density** No information available

Section 10: STABILITY AND REACTIVITY

Reactivity Not applicable

Stability Stable under recommended storage conditions

Hazardous reactions None under normal processing.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to Avoid No information available.

Incompatible products Strong oxidizing agents, Strong acids, Strong bases.

Hazardous Decomposition Products Carbon monoxide (CO). Carbon dioxide (CO2).

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Numerical measures of toxicity - Product Information

2500 mg/kg LD50 Oral > 2000 mg/kg **LD50 Dermal** 5.06 mg/L 4 hr LC50 Inhalation (dust)

Skin corrosion/irritation Non-irritating. Serious eye damage/eye irritation Mildly irritating. Sensitization Non-sensitizing.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Format: AP

Revision date: 2021-11-03

Version 2

Clothianidin: Did not show mutagenic effects in animal experiments. Mutagenicity Carcinogenicity Clothianidin: No evidence of carcinogenicity from animal studies. Reproductive toxicity Clothianidin: No toxicity to reproduction in animal studies.

Clothianidin: Developmental LOAEL = 75 mg/kg/day based on an increased litter incidence **Developmental toxicity**

of a missing lobe of the lung (rabbit).

STOT - single exposure STOT - repeated exposure **Target organ effects**

No information available.

Clothianidin: [90 day rat: at 640 mg/kg - atrophy of the testes; atrophy of testicular

seminiferous tubules with lack of spermatogenic cells in testes, and severe lack of sperm in

epididymal lumen], haematopoietic organs (rat, dog); kidney (mouse).

Aspiration hazard The product does not present an aspiration pneumonia hazard.

No information available.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated.

Very toxic to aquatic life with long lasting effects. Highly toxic to bees.

Clothianidin (210880-92-5)				
Active Ingredient(s)	Duration	Species	Value	Units
	96 h LC50	Fish	>104.2	mg/L
	96 h EC50	Algae	55	mg/L
	48 h EC50	Daphnia magna	>40	mg/L
	28 d NOEC	Fish	20	mg/L
	21 d NOEC	Daphnia magna	0.12	mg/L
	48 h LC50	Bee	0.03	mg/L

Persistence and degradability Clothianidin: Moderately persistent. Hydrolytically stable. Not readily biodegradable.

Clothianidin: The substance has a low potential to bioaccumulate in the environment. **Bioaccumulation**

Clothianidin: Moderately mobile. Has some potential to reach groundwater. Mobility

Other Adverse Effects No information available.

Section 13: DISPOSAL CONSIDERATIONS

Waste disposal methods Improper disposal of excess pesticide, spray mixture, or rinsate is prohibited. If these

> wastes cannot be disposed of by use according to label instructions, contact appropriate disposal authorities for guidance. In accordance with local and national regulations. The

product should not be allowed to enter drains, water courses or the soil.

Contaminated containers and

Dispose of in accordance with federal, state and local regulations.

packages

Section 14: TRANSPORT INFORMATION

IMDG/IMO

UN3082 UN/ID no

Environmentally hazardous substance, liquid, n.o.s.(Clothianidin) **Proper Shipping Name**

Format: AP

Revision date: 2021-11-03

Version 2

Hazard class 9
Packing Group III
EmS No. F-A, S-F
Special Provisions 274, 335
Environmental Hazards Clothianidin

ICAO/IATA

UN/ID no UN3082

Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s.(Clothianidin)

Hazard class 9
Packing Group III
Limited quantity 30 kg G
Special Provisions A97, A158
Environmental Hazards Clothianidin

Section 15: REGULATORY INFORMATION

International Inventories

A food, food additive, drug, cosmetic, or device, when manufactured, processed or distributed in commerce for use as a food, food additive, drug, cosmetic, or device may not be subject to local notification requirements. Check local regulations for more information.

Chemical name	TSCA (United States)	DSL (Canada)	EINECS/ELIN CS (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
Clothianidin 210880-92-5			Х	Х	Х			
Propylene glycol 57-55-6	Х	Х	Х	Х	Х	Х	Х	Х
Sodium Hydroxide 1310-73-2	Х	Х	Х	Х	Х	Х	Х	Х
Methyl ethyl ketone 78-93-3	Х	Х	Х	Х	Х	Х	Х	Х

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

Section 16: OTHER INFORMATION

Revision date: 2021-11-03

Revision note SDS sections updated.

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SDS #: 7523-A Format: AP

Revision date: 2021-11-03

Version 2

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End of Safety Data Sheet