SAFETY DATA SHEET MARSHAL® 250 g/L ULV INSECTICIDE

SDS #: 1256-A

Revision date: 2016-05-26

Format: NA Version 1.02



1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name MARSHAL® 250 g/L ULV INSECTICIDE

Other means of identification

Product Code(s) 1256-A

CARBOSULFAN (FMC 35001): 2,3-dihydro-2,2-dimethylbenzofuran-7-yl **Synonyms**

(dibutylaminothio)methylcarbamate (CAS name); 2,3-dihydro-2,2-dimethyl-7-benzofuranyl

[(dibutylamino)thio]methylcarbamate (IUPAC name)

Active Ingredient(s) Carbosulfan

Chemical Family Carbamate Pesticide

Recommended use of the chemical and restrictions on use

Recommended Use: Insecticide

Restrictions on Use: Use as recommended by the label

Manufacturer Address

FMC Corporation 2929 Walnut Street Philadelphia, PA 19104

(215) 299-6000 (General Information)

msdsinfo@fmc.com (E-Mail General Information)

Emergency telephone number

Medical Emergencies:

1 800 / 331-3148 (PROSAR - U.S.A. & Canada)

1 651 / 632-6793 (PROSAR - All Other Countries - Collect)

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

1 800 / 424 9300 (CHEMTREC - U.S.A.)

1 703 / 527 3887 (CHEMTREC - Collect - All Other Countries)

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 3
Skin sensitization	Category 1B
Carcinogenicity	Category 2
Specific target organ toxicity (single exposure)	Category 1

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Specific target organ toxicity (repeated exposure)	Category 1
Aspiration toxicity	Category 1
Flammable liquids	Category 4

GHS Label elements, including precautionary statements

EMERGENCY OVERVIEW

Danger

Hazard Statements

- H302 Harmful if swallowed
- H304 May be fatal if swallowed and enters airways
- H317 May cause an allergic skin reaction
- H331 Toxic if inhaled
- H351 Suspected of causing cancer
- H370 Causes damage to organs
- H372 Causes damage to organs through prolonged or repeated exposure

Physical Hazards

H227 - Combustible liquid



Precautionary Statements - Prevention

- P201 Obtain special instructions before use
- P202 Do not handle until all safety precautions have been read and understood
- P281 Use personal protective equipment as required
- P264 Wash face, hands and any exposed skin 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
- P280 Wear protective gloves
- P260 Do not breathe dust/fume/gas/mist/vapors/spray
- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking
- P235 Keep cool

Precautionary Statements - Response

- P321 Specific treatment (see supplemental first aid instructions on this label)
- P308 + P311 If exposed or concerned: Call a POISON CENTER or doctor
- P302 + P352 IF ON SKIN: Wash with plenty of water and soap
- P333 + P313 If skin irritation or rash occurs: Get medical advice/attention
- P363 Wash contaminated clothing before reuse
- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing
- P311 Call a POISON CENTER or doctor
- P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor
- P331 Do NOT induce vomiting
- P330 Rinse mouth
- P370 + P378 In case of fire: Use Carbon dioxide (CO2), Dry chemical, Alcohol-resistant foam, Water spray for extinction

Precautionary Statements - Storage

- P405 Store locked up
- P403 + P233 Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

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

Hazards not otherwise classified (HNOC)

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No hazards not otherwise classified were identified.

Other Information

Very toxic to aquatic life with long lasting effects.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Family

Carbamate Pesticide.

Chemical name	CAS-No	Weight %
Carbosulfan	55285-14-8	26
Carbofuran	1563-66-2	0.5
2-Methylnaphthalene	91-57-6	20-30
Naphtha (petroleum), heavy aromatic	64742-94-5	20-30
1-Methylnaphthalene	90-12-0	10-20
Naphthalene	91-20-3	0.1-1

Synonyms are provided in Section 1.

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

contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison

control center or doctor for further treatment advice.

Skin Contact Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20

minutes. Call a poison control center or doctor for further treatment advice.

Inhalation Move to fresh air. If person is not breathing, call 911 (within the U.S. and Canada) or an

ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a

poison control center or doctor for further treatment advice.

Ingestion Immediately call a poison control center or doctor. Do not induce vomiting unless told to do

so by a poison control center or doctor. Do not give any liquid to the person. Do not give

anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed Symptoms of exposure may include headache, light-headedness, weakness, abdominal cramps, nausea, excessive salivation, perspiration, blurred vision, tearing, pin-point pupils,

excessive respiratory secretions, cyanosis, convulsions, generalized tremor and coma.

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

Contains petroleum distillate. Vomiting may cause aspiration pneumonia. This product contains a reversible cholinesterase inhibitor. Atropine sulfate is antidotal. If cyanosis is absent: Adults - start treatment by giving 2 mg atropine intravenously or intramuscularly, if necessary, and repeat with 0.4 - 2.0 mg atropine at 15 minute intervals until atropinization occurs (tachycardia, flushed skin, dry mouth, mydriasis); Children under 12 - initial dose = 0.05 mg/kg body weight and repeat dose = 0.02 - 0.05 mg/kg body weight. Use of oximes such as 2-PAM is controversial. Observe patient to ensure that these symptoms do not recur as atropinization wears off. If in eyes, instill one drop of homatropine. Treatment is otherwise controlled removal of exposure followed by symptomatic and supportive care.

Thermal decomposition can lead to release of irritating and toxic gases and vapors

5. FIRE-FIGHTING MEASURES

Foam. Carbon dioxide (CO₂). Dry chemical. Soft stream or water fog only if necessary. Suitable Extinguishing Media

Specific Hazards Arising from the

Chemical

Explosion data

Sensitivity to Mechanical Impact Sensitivity to Static Discharge

Not sensitive.

Yes.

Protective equipment and Isolate fire area. Evaluate downwind. Wear self-contained breathing apparatus and

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precautions for firefighters protective suit.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Isolate and post spill area. Remove all sources of ignition. Wear suitable protective clothing,

gloves and eye/face protection. For personal protection see section 8.

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

"Product and Company Identification" above.

Environmental Precautions Keep people and animals away from and upwind of spill/leak. Keep material out of lakes,

streams, ponds, and sewer drains.

Methods for Containment Dike to prevent runoff.

Methods for cleaning upAbsorb with earth, sand or other non-combustible material and transfer to containers for

later disposal. Clean and neutralize spill area, tools and equipment for a minimum contact of one hour with vinegar-alcohol solution, then by bleach soap and water. Absorb rinsate and add to the collected waste. Waste must be classified and labeled prior to recycling or

disposal. Dispose of waste as indicated in Section 13.

7. HANDLING AND STORAGE

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

Storage Keep 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. Keep/store only in

original container.

Incompatible products Acids

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Chemical name	ACGIH TLV	OSHA PEL	NIOSH	Mexico
Carbofuran (1563-66-2)	TWA: 0.1 mg/m ³	-	TWA: 0.1 mg/m ³	Mexico: TWA 0.1 mg/m ³
2-Methylnaphthalene (91-57-6)	TWA: 0.5 ppm	-	-	-
1-Methylnaphthalene (90-12-0)	TWA: 0.5 ppm	-	-	-
Naphthalene (91-20-3)	TWA: 10 ppm	TWA: 10 ppm TWA: 50 mg/m ³	IDLH: 250 ppm TWA: 10 ppm TWA: 50 mg/m ³ STEL: 15 ppm STEL: 75 mg/m ³	Mexico: TWA 10 ppm Mexico: TWA 50 mg/m³ Mexico: STEL 15 ppm Mexico: STEL 75 mg/m³
Chemical name	British Columbia	Quebec	Ontario TWAEV	Alberta
Carbofuran (1563-66-2)	TWA: 0.1 mg/m³	TWA: 0.1 mg/m ³	TWA: 0.1 mg/m³ inhalable fraction and vapor	TWA: 0.1 mg/m ³
2-Methylnaphthalene (91-57-6)	TWA: 0.5 ppm Skin	-	TWA: 0.5 ppm Skin	-
1-Methylnaphthalene (90-12-0)	TWA: 0.5 ppm Skin	-	TWA: 0.5 ppm	-
			Skin	

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Napht	halene	TWA: 10 ppm	TWA: 10 ppm	TWA: 10 ppm	TWA: 10 ppm
(91-	20-3)	STEL: 15 ppm	TWA: 52 mg/m ³	• •	TWA: 52 mg/m ³
	·	Skin	STEL: 15 ppm		STEL: 15 ppm
			STEL: 79 mg/m ³	STEL: 15 ppm	STEL: 79 mg/m ³
			_	Skin	Skin

Appropriate engineering controls

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

confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for

breathing and wear the recommended equipment.

Individual protection measures, such as personal protective equipment

Eye/Face Protection For dust, splash, mist or spray exposure, wear chemical protective goggles.

Skin and Body Protection Wear long-sleeved shirt, long pants, socks, shoes, chemical-resistant gloves and headgear.

Hand Protection Protective gloves Please observe the instructions regarding permeability and breakthrough

time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts.

abrasion and the contact time.

Respiratory Protection For dust, splash, mist or spray exposures wear a full-face air-supplying respirator which is

approved for pesticides (U.S. NIOSH/MSHA, EU CEN or comparable certification

organization)

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Hygiene measures Clean water should be available for washing in case of eye or skin contamination. Wash

skin prior to eating, drinking, chewing gum or using tobacco. Shower or bathe at the end of working. Remove and wash contaminated clothing before re-use. Launder work clothing

separately from regular household laundry.

General information If the product is used in mixtures, it is recommended that you contact the appropriate

protective equipment suppliers. These recommendations apply to the product as supplied

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance Amber Liquid
Physical State Liquid
Color Amber

Odor Hydrocarbon-like
Odor threshold No information available

pH 4.3

Melting point/freezing point Not applicable

Boiling Point/Range No information available

Flash point > 79 °C / > 174.2 °F Closed cup

Evaporation Rate

Flammability (solid, gas)

No information available
No information available

Flammability Limit in Air

Upper flammability limit:
Lower flammability limit:
Vapor pressure
Vapor density

Density

No information available
No information available
No information available
No information available
8.32 lb/gal

 Density
 8.32 lb/gal

 Specific gravity
 0.999 @ 20 °C

Water solubility
Solubility in other solvents
Partition coefficient
Autoignition temperature
Decomposition temperature
Viscosity, kinematic
Viscosity, dynamic
No information available

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Explosive properties No information available **Oxidizing properties** No information available Molecular weight No information available No information available **Bulk density**

10. STABILITY AND REACTIVITY

Reactivity Not applicable

Chemical Stability Stable under recommended storage conditions. **Possibility of Hazardous Reactions** Contact with aqueous acids may produce carbofuran.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid Excessive heat. Extreme risk of explosion by shock, friction, fire or other sources of ignition.

Incompatible materials Acids.

Hazardous Decomposition Products Burning produces obnoxious and toxic fumes: Carbon oxides (COx), Sulfur oxides, Nitrogen

oxides (NOx).

11. TOXICOLOGICAL INFORMATION

Product Information

LD50 Oral 740 mg/kg (rat)

(Calculated using Carbosulfan technical Oral LD50 = 185 mg/kg)

> 2,000 2,000 mg/kg (rabbit) **LD50 Dermal** LC50 Inhalation Carbosulfan: 0.61 mg/L 1 hr (rat)

Serious eye damage/eye irritation

Skin corrosion/irritation

Irritating to skin.

Sensitization Carbosulfan: This product produces skin sensitization (allergic reaction) in laboratory

animals, and may produce similar effects in humans.

Information on toxicological effects

This substance is a reversible cholinesterase-inhibiting pesticide, which elicits symptoms in **Symptoms**

humans typical of cholinesterase inhibition including headache, light-headedness,

weakness, abdominal cramps, nausea, excessive salivation, perspiration and blurred vision. More severe signs of cholinesterase inhibition include tearing, pin-point pupils, excessive respiratory secretions, cyanosis, convulsions, generalized tremor and coma. Excessive

cholinesterase inhibition may result in death.

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

May cause slight irritation.

Effects are expected to be similar to those that are seen with acute toxicity. Chronic toxicity

Mutagenicity Carbosulfan, Carbofuran: Not genotoxic in laboratory studies

Carbosulfan, Carbofuran: No evidence of carcinogenicity from animal studies. Carcinogenicity

Neurological effects Carbosulfan, Carbofuran: Chronic exposure of laboratory animals has caused decreased

cholinesterase activity (erythrocyte, plasma, and/or brain).

Carbosulfan, Carbofuran: No toxicity to reproduction in animal studies. Reproductive toxicity

Developmental toxicity Carbosulfan: Caused fetal incomplete ossification and major vessel variations in animal

studies. Carbofuran: Not teratogenic in animal studies.

Causes damage to organs. See listed target organs below. STOT - single exposure

Causes damage to organs through prolonged or repeated exposure. See listed target STOT - repeated exposure

organs below.

Nervous system, Bladder, Gastrointestinal tract, Red blood cells, Acetylcholinesterase Target organ effects

Inhibition

Neurological effects Carbosulfan, Carbofuran: Chronic exposure of laboratory animals has caused decreased

cholinesterase activity (erythrocyte, plasma, and/or brain).

Potential for aspiration if swallowed. May be fatal if swallowed and enters airways. Aspiration hazard

	Chemical name	ACGIH	IARC	NTP	OSHA
Ī	Carbosulfan		Group 2A		
	55285-14-8		·		
Γ	Naphthalene	A3	Group 2B	Reasonably Anticipated	Χ

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ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

NTP (National Toxicology Program)

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

12. ECOLOGICAL INFORMATION

Ecotoxicity

Carbosulfan (55285-14-8)				
Active Ingredient(s)	Duration	Species	Value	Units
Carbosulfan	48 h EC50	Crustacea	1.5	μg/L
	72 h EC50	Algae	47	mg/L
	96 h LC50	Fish	0.015	mg/L
	21 d NOEC	Crustacea	3.2	μg/L
	21 d NOEC	Fish	3.0	μg/L

Carbofuran (1563-66-2)				
Active Ingredient(s)	Duration	Species	Value	Units
Carbofuran	48 h EC50	Crustacea	0.75	mg/L
	72 h EC50	Algae	19	mg/L
	96 h LC50	Fish	0.18	mg/L
	21 d NOEC	Crustacea	0.23	μg/L
	96 h NOEC	Algae	3.2	mg/L
	21 d NOEC	Fish	5.22	μg/L

Persistence and degradability Carbosulfan: Non-persistent. Readily hydrolyzed. Not readily biodegradable. Carbofuran:

Non-persistent. Does not readily hydrolyze. Not readily biodegradable.

Bioaccumulation Carbosulfan: The substance has a potential for bioconcentration. Carbofuran: The

substance does not have a potential for bioconcentration.

Mobility Carbosulfan: Slightly mobile; not expected to reach groundwater. Carbofuran: Moderately

mobile; expected to reach groundwater.

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.

Containers must be disposed of in accordance with local, state and federal regulations.

Refer to the product label for container disposal instructions.

14. TRANSPORT INFORMATION

DOT

UN/ID no UN2992

Proper Shipping Name Carbamate pesticides, liquid, toxic

Hazard class 6.1
Packing Group

Reportable Quantity (RQ) Carbofuran is in an "RQ" quantity when this mater ial meets or exceeds 2000 pounds (250

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gallons) per package. Carbosulfan, Carbofuran.

Description UN2992, Carbamate pesticides, liquid, toxic (Carbosulfan, Carbofuran), 6.1, PG III, Marine

Pollutant, RQ

TDG

Marine Pollutant

UN/ID no UN2992

Proper Shipping Name Carbamate pesticide, liquid, toxic

Hazard class 6.1 Packing Group III

Marine Pollutant Carbosulfan, Carbofuran.

Description UN2992, Carbamate pesticides, liquid, toxic (Carbosulfan, Carbofuran), 6.1, PG III, Marine

Pollutant

Marine Pollutant Np

ICAO/IATA

UN/ID no UN2992

Proper Shipping Name Carbamate pesticide, liquid, toxic

Hazard class 6.1 Packing Group III

Description UN2992, Carbamate pesticides, liquid, toxic (Carbosulfan, Carbofuran), 6.1, PG III

IMDG/IMO

UN/ID no UN2992

Proper Shipping Name Carbamate pesticide, liquid, toxic

Hazard class 6.1
Packing Group III
EmS No. F-A, S-A

Marine Pollutant Carbosulfan, Carbofuran

Description UN2992, Carbamate pesticides, liquid, toxic (Carbosulfan, Carbofuran), 6.1, PG III, Marine

Pollutant

15. REGULATORY INFORMATION

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical name	CAS-No	Weight %	SARA 313 - Threshold Values %
Carbofuran - 1563-66-2	1563-66-2	0.5	1.0
Naphthalene - 91-20-3	91-20-3	0.1-1	0.1

SARA 311/312 Hazard Categories

Acute health hazard Yes
Chronic health hazard Yes
Fire hazard Yes
Sudden release of pressure hazard No
Reactive Hazard No

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Carbofuran 1563-66-2	10 lb			X
Naphthalene 91-20-3	100 lb	Х	Х	X

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CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Carbosulfan	1000 lb	
55285-14-8	454 kg	
Carbofuran	10 lb	10 lb
1563-66-2	4.54 kg	
Naphthalene	100 lb	
91-20-3	45.4 kg	

FIFRA Information

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

CAUTION

Harmful if inhaled, swallowed and absorbed through skin. Prolonged or frequently repeated skin contact maycause allergic reactions in some individuals.

This pesticide is highly toxic to fish, birds and other wildlife.

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical name	California Prop. 65	
Naphthalene - 91-20-3	Carcinogen	

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Carbosulfan	Χ		
55285-14-8			
Carbofuran	X	X	X
1563-66-2			
2-Methylnaphthalene	X		
91-57-6			
1-Methylnaphthalene	Χ	X	X
90-12-0			
Naphthalene	X	X	X
91-20-3			

International Inventories

Chemical name	TSCA (United States)	DSL (Canada)	EINECS/ELINC S (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
Carbosulfan 55285-14-8			X			X		
Carbofuran 1563-66-2	Х	Х	X	Χ	Х	X	Х	Х
2-Methylnaphthalene 91-57-6	Х	Х	Х	Χ	Х		Х	Х
Naphtha (petroleum), heavy aromatic	Х	Х	X	X	Х	X	X	Х

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64742-94-5								
1-Methylnaphthalene 90-12-0	Х	Х	X	Х	Х		Х	X
Naphthalene 91-20-3	Х	X	Х	X	X	Х	Х	Х

Chemical name	Carcinogen Status	Mexico
Carbofuran		Mexico: TWA 0.1 mg/m ³
Naphthalene		Mexico: TWA 10 ppm
		Mexico: TWA 50 mg/m ³
		Mexico: STEL 15 ppm
		Mexico: STEL 75 mg/m ³

WHMIS Hazard Class

D1B - Toxic materials D2A - Very toxic materials D2B - Toxic materials





16. OTHER INFORMATION

NFPA	Health Hazards 3	Flammability 2	Instability 0	Special Hazards -
HMIS	Health Hazards 2*	Flammability 2	Physical hazard 0	Personal Protection X

^{*}Indicates a chronic health hazard.

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Reason for revision: (M)SDS sections updated

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End of Safety Data Sheet