



## SAFETY DATA SHEET

Eltar

SDS # : 7623-2-A  
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Version 1

### Section 1: PRODUCT AND COMPANY IDENTIFICATION

**Product Name** Eltar  
**Product Code(s)** 7623-2-A  
**Active Ingredient(s)** Carbosulfan  
**Chemical Family** Carbamate Pesticide  
**Recommended Use:** Insecticide  
**Restrictions on Use:** Use as recommended by the label.

**Manufacturer/Supplier**

FMC AG (Thailand) Ltd  
159/22 Serm-Mit Tower, Unit 1404, 14th Floor  
Sukhumvit 21 Road (Asoke), Kwang Klongtoey Nua  
Khet Wattana, Bangkok 10110 Thailand  
Phone: +6627009770  
Fax: +6627009777

**Emergency telephone**

Medical Emergencies: 1 651 632 6793 (Collect)  
For leak, fire, spill or accidents: 001-800-13-203-9987 (CHEMTREC)

### Section 2: HAZARDS IDENTIFICATION

**GHS Classification**

Acute toxicity - Oral	Category 4
Carcinogenicity	Category 1A
STOT - single exposure	Category 1
Specific target organ toxicity (repeated exposure)	Category 1
Acute aquatic toxicity	Category 1
Chronic aquatic toxicity	Category 1

**Label Elements**



**Signal Word:**

**Danger**

**Hazard Statements**

H302 - Harmful if swallowed  
H410 - Very toxic to aquatic life with long lasting effects  
H350 - May cause cancer

H370 - Causes damage to organs

H372 - Causes damage to organs through prolonged or repeated exposure

**Precautionary Statements - Prevention**

P264 - Wash face, hands and any exposed skin thoroughly after handling

P270 - Do not eat, drink or smoke when using this product

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P272 - Contaminated work clothing should not be allowed out of the workplace

P280 - Wear protective gloves

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

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

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P280 - Wear eye protection/ face protection

**Precautionary Statements - Response**

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell

P330 - Rinse mouth

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

P314 - Get medical advice/ attention if you feel unwell

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

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell

P330 - Rinse mouth

P391 - Collect spillage

**Precautionary Statements - Storage**

P405 - Store locked up

**Precautionary Statements - Disposal**

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

**Other Information**

None known.

**Section 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical name	CAS-No	Weight %
Carbosulfan	55285-14-8	5
Crystalline silica, quartz	14808-60-7	80-90
Synthetic amorphous silica	112926-00-8	<5

**Section 4: FIRST AID MEASURES****Inhalation**

Move to fresh air. If breathing difficulty or discomfort occurs and persists, obtain medical attention.

**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.

**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.

**Ingestion**

Call a poison control center or doctor immediately for treatment advice. Drink 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

**Most important symptoms and effects, both acute and delayed**

Symptoms of overexposure include headache, light-headedness, weakness, abdominal cramps, nausea, excessive salivation, perspiration, blurred vision, tearing, pin-point pupils, blue skin color, convulsions, tremor and coma.

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

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.

## Section 5: FIRE FIGHTING MEASURES

<b>Suitable Extinguishing Media</b>	Foam. Carbon dioxide (CO <sub>2</sub> ). Dry chemical. Soft stream or water fog only if necessary.
<b>Unsuitable extinguishing media</b>	No information available
<b>Specific Hazards Arising from the Chemical</b>	Dry or powdered ingredients are combustible. Dispersal of finely divided dust from products into air may form mixtures that are ignitable and explosive. Minimize airborne dust generation and eliminate sources of ignition.
<b>Protective equipment and precautions for firefighters</b>	Isolate fire area. Evaluate upwind. As in any fire, wear self-contained breathing apparatus and full protective gear.

## Section 6: ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	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.
<b>Other</b>	For further clean-up instructions, call FMC Emergency Hotline number listed in Section 1 "Product and Company Identification" above.
<b>Environmental Precautions</b>	Keep people and animals away from and upwind of spill/leak. Keep material out of lakes, streams, ponds, and sewer drains. Keep out of waterways.
<b>Methods for Containment</b>	Use a wet sweeping compound or water to prevent dust formation. Dike to confine spill and absorb with non-combustible absorbent such as clay, sand or soil. Vacuum, shovel or pump waste into a drum and label contents for disposal.
<b>Methods for cleaning up</b>	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.

## Section 7: HANDLING AND STORAGE

<b>Handling</b>	Handle in accordance with good industrial hygiene and safety practice. Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal.
<b>Storage</b>	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.
<b>Materials to avoid</b>	Acids Strong oxidizing agents, Strong acids, Strong bases.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Limits**

Component	China	Japan	Korea	Australia	Taiwan
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Crystalline silica, quartz 14808-60-7 ( 80-90 )	TWA: 0.7 mg/m <sup>3</sup> TWA: 0.3 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup> TWA: 0.5 mg/m <sup>3</sup> TWA: 0.2 mg/m <sup>3</sup> C1	OEL: 0.03 mg/m <sup>3</sup> C1	TWA: 0.05 mg/m <sup>3</sup>	TWA 0.05 mg/m <sup>3</sup>	
Synthetic amorphous silica 112926-00-8 ( <5 )	TWA: 5 mg/m <sup>3</sup>		TWA: 10 mg/m <sup>3</sup>	TWA 10 mg/m <sup>3</sup>	

**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.

**Personal protective equipment****Respiratory Protection**

The 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**

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.

**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.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Dry powder, Solid
<b>Appearance</b>	Red Granules
<b>Odor</b>	Slight Phenolic
<b>Color</b>	Red
<b>Odor threshold</b>	No information available
<b>pH</b>	No information available
<b>Melting point/freezing point</b>	No information available
<b>Boiling Point/Range</b>	No information available
<b>Flash point</b>	No information available
<b>Evaporation Rate</b>	No information available
<b>Flammability (solid, gas)</b>	No information available
<b>Flammability Limit in Air</b>	
Upper flammability limit:	No information available
Lower flammability limit:	No information available
<b>Vapor pressure</b>	No information available
<b>Vapor density</b>	No information available
<b>Specific gravity</b>	No information available
<b>Water solubility</b>	No information available
<b>Solubility(ies)</b>	No information available
<b>Partition coefficient</b>	No information available
<b>Autoignition temperature</b>	No information available
<b>Decomposition temperature</b>	No information available
<b>Viscosity, kinematic</b>	No information available
<b>Viscosity, dynamic</b>	No information available
<b>Molecular weight</b>	No data available
<b>Relative density</b>	85 - 89 lb/ft <sup>3</sup>
<b>Bulk density</b>	No information available

## Section 10: STABILITY AND REACTIVITY

<b>Reactivity</b>	None under normal use conditions
<b>Stability</b>	Stable under recommended storage conditions
<b>Hazardous reactions</b>	Contact with aqueous acids may produce carbofuran, carbon disulfide, and methylamine.
<b>Hazardous polymerization</b>	Hazardous polymerization does not occur.
<b>Conditions to Avoid</b>	Excessive heat. Extreme risk of explosion by shock, friction, fire or other sources of ignition.
<b>Incompatible products</b>	Strong oxidizing agents, Strong acids, Strong bases.
<b>Hazardous Decomposition Products</b>	Burning produces obnoxious and toxic fumes: Carbon oxides (COx), Sulfur oxides, Nitrogen oxides (NOx).

## Section 11: TOXICOLOGICAL INFORMATION

### Acute toxicity

#### Numerical measures of toxicity - Product Information

<b>LD50 Oral</b>	905 mg/kg (rat)
<b>LD50 Dermal</b>	> 2000 mg/kg (rabbit)
<b>LC50 Inhalation (dust)</b>	> 4.78 mg/L 4 hr (rat)
<b>Skin corrosion/irritation</b>	Minimally irritating.
<b>Serious eye damage/eye irritation</b>	No information available.
<b>Sensitization</b>	Non-sensitizing.

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

<b>Mutagenicity</b>	Carbosulfan: Not genotoxic in animal studies.
<b>Carcinogenicity</b>	Carbosulfan: No evidence of carcinogenicity from animal studies. This product contains crystalline silica (quartz) in a non-respirable form. Inhalation of crystalline silica is unlikely to occur from exposure to this product. However, if granules are pulverized or crushed into a fine, respirable powder, silica exposure via inhalation is probable.
<b>Reproductive toxicity</b>	Carbosulfan: No toxicity to reproduction in animal studies.
<b>STOT - single exposure</b>	Causes damage to organs. See listed target organs below.
<b>STOT - repeated exposure</b>	Causes damage to organs through prolonged or repeated exposure. See listed target organs below.
<b>Chronic toxicity</b>	Chronic exposure to silica dust may increase the risk of developing pneumoconiosis or silicosis, chronic diseases affecting the lungs, characterized by labored breathing, cough, reduction of work capacity, reduction of lung capacity, heart enlargement and failure.
<b>Target organ effects</b>	Nervous System, Acetylcholinesterase Inhibition, bladder, Gastrointestinal tract (GI), Red blood cells.
<b>Neurological effects</b>	Carbosulfan: Chronic exposure of laboratory animals has caused decreased cholinesterase activity (erythrocyte, plasma, and/or brain).
<b>Aspiration hazard</b>	The product does not present an aspiration pneumonia hazard.

## 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.

<b>Carbosulfan (55285-14-8)</b>				
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

<b>Persistence and degradability</b>	Carbosulfan: Non-persistent. Readily hydrolyzed. Not readily biodegradable.
<b>Bioaccumulation</b>	Carbosulfan: The substance has some potential to bioaccumulate in the environment.
<b>Mobility</b>	Carbosulfan: Slightly mobile. Not expected to reach groundwater.
<b>Other Adverse Effects</b>	No information available.

### Section 13: DISPOSAL CONSIDERATIONS

<b>Waste disposal methods</b>	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. Proper personal protective equipment, as described in Sections 7 and 8, must be worn while handling materials for waste disposal.
<b>Contaminated containers and packages</b>	Containers must be disposed of in accordance with local, state and federal regulations. Refer to the product label for container disposal instructions.

### Section 14: TRANSPORT INFORMATION

#### IMDG/IMO

UN/ID no	UN3077
Proper Shipping Name	Environmentally hazardous substance, solid, n.o.s. (Carbosulfan)
Hazard class	9
Packing Group	III
EmS No.	F-A, S-F
Environmental Hazards	Marine Pollutant

#### ICAO/IATA

UN/ID no	UN3077
Proper Shipping Name	Environmentally hazardous substance, solid, n.o.s. (Carbosulfan)
Hazard class	9
Packing Group	III
Environmental Hazards	Marine Pollutant

### 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/ELINCS (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
Carbosulfan 55285-14-8			X			X		
Crystalline silica, quartz 14808-60-7	X	X	X	X	X	X	X	X
Synthetic amorphous silica 112926-00-8		X		X	X	X	X	X

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

**DSL/NDL** - 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

**Prepared By:** FMC Corporation

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**Revision note** SDS sections updated.

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**End of Safety Data Sheet**