# SAFETY DATA SHEET

Rugby 200 CS

SDS #: 6044-MX-A **Revision date: 2018-04-12** 

> Format: MX Version 1



## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier** 

**Product Name** Rugby 200 CS

Other means of identification

Product Code(s) 6044-MX-A

CADUSAFOS: S,S-di-sec-butyl O-ethyl phosphorodithioate (IUPAC name); O-ethyl **Synonyms** 

S,S-bis(1-methylpropyl) phosphorodithioate (CAS Name)

Cadusafos Active Ingredient(s)

**Formula** C<sub>10</sub>H<sub>23</sub>O<sub>2</sub>PS<sub>2</sub> (Cadusafos)

**Chemical Family** Organophosphate Pesticide

Recommended use of the chemical and restrictions on use

**Recommended Use:** Nematicide

Use as recommended by the label. **Restrictions on Use:** 

**Supplier Address** 

Supplier (Mexico) FMC Agroquímica de México, S. de R.L. de C.V.

Av. Vallarta No. 6503, Local A1-6, Col. Cd. Granja, 45010 Zapopan, Jalisco, México.

Telephone number: 01 800 FMC AGRO (362 2476)

Distributor FMC Agroquímica de México, S. de R.L. de C.V.

Emergency telephone number In case of intoxication call emergency numbers SINTOX (poison control center):

01-800-00-928-00; 01 (55) 5611 2634 and 01 (55) 5598 6659, 24 hour service 365 days a

year.

For emergencies: 911

Mexico Information

**Federal Transport Police** 062 Fire brigade 068 **Red Cross** 065

**Civil Protection** 01 800 004 1300 PROFEPA = Attorney General for 01 800 776 3372

**Environmental Protection** 

**SETIQ** [Emergency Transportation In Mexico City and the Metropolitan area: 01 (55) 5559 1588

System for the Chemical Industry] From anywhere in the Mexican Republic: 01 800 002 1400 (24 hour)

In case of spills call COTRA (Committee on Transport and

045 55 4194 0157

Storage):

Green Angels (if there are injured 078

people)

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## 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 4
Specific target organ toxicity (single exposure)	Category 1
Specific target organ toxicity (repeated exposure)	Category 1

#### GHS Label elements, including precautionary statements

#### **EMERGENCY OVERVIEW**

#### Danger

#### Hazard Statements

H302 - Harmful if swallowed

H332 - Harmful if inhaled

H370 - Causes damage to organs

H372 - Causes damage to organs through prolonged or repeated exposure



#### **Precautionary Statements - Prevention**

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

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

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

## **Precautionary Statements - Response**

P321 - Specific treatment (see supplemental first aid instructions on label)

P308 + P311 - If exposed or concerned: Call a POISON CENTER or doctor

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

P314 - Get medical advice/ attention if you feel unwell

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

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

P330 - Rinse mouth

## **Precautionary Statements - Storage**

P405 - Store locked up

## **Precautionary Statements - Disposal**

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

## Hazards not otherwise classified (HNOC)

No hazards not otherwise classified were identified.

#### Other Information

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Very toxic to aquatic life with long lasting effects.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Chemical Family**

Organophosphate Pesticide.

Chemical name	CAS-No	Weight %
2-Methylnaphthalene	91-57-6	1-5
Cadusafos	95465-99-9	20.6
Methylene diphenyl diisocyanate (polymeric)	9016-87-9	5-10
Naphtha (petroleum), heavy aromatic	64742-94-5	1-5
1,6-hexanediamine (70%)	124-09-4	1-5

Synonyms are provided in Section 1.

## 4. FIRST AID MEASURES

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 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, contact emergency medical services, then give

artificial respiration, preferably mouth-to-mouth if possible. 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 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

This product contains a reversible cholinesterase inhibitor. Atropine sulfate is antidotal. Support respiration as needed with removal of secretions, maintenance of a patent airway and, if necessary, artificial ventilation. 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. Start 2-PAM at the same time, following manufacturer's recommended dosages and administration. Morphine, reserpine, phenothiazines and theophylline are probably contraindicated. At first sign of pulmonary edema, the patient should be given supplemental oxygen and treated symptomatically. 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.

In case of intoxication call emergency numbers SINTOX (poison control center): 01-800-00-928-00; 01 (55) 5611 2634 and 01 (55) 5598 6659, 24 hour service 365 days a year.

For emergencies: 911.

#### 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media** 

Foam. Carbon dioxide (CO<sub>2</sub>). Dry powder. Water spray.

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Specific Hazards Arising from the

Chemical

**Hazardous Combustion Products** 

Combustible liquid

Carbon oxides (COx). Phosphorus oxides. Sulfur dioxide.

**Explosion data** 

Sensitivity to Mechanical Impact Sensitivity to Static Discharge No information available. No information available.

Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus and protective suit. As in any fire, wear self-contained breathing apparatus and full protective gear. Isolate fire area. Evaluate upwind.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Identify the substance from a safe place. Do not inhale, do not touch and do not walk

through spilled material. Isolate the area to ensure sufficient breadth to individuals and to facilitate the work control and cleaning. Keep away from unauthorized personnel. Call the emergency phones COTRA (Committee on Transport and Storage) 045 55 4194 0157 and wait for help. Stay upwind and out of low areas. Always have a fire extinguisher available,

preferably dry chemical (PQS).

Other For further cleaning instructions call COTRA (COMMITTEE ON TRANSPORT

ANDSTORAGE) 045 55 4194 0157.

**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 Wear the full Personal Protection Equipment, avoiding inhalation or contact with skin or

eyes. Dike to contain spill with inert material which is absorbent and non-combustible (clay,

sand or soil). Then soak up with absorbent material inward from the edges.

Methods for cleaning up Clean and neutralize spill area, tools and equipment by washing with water and soap.

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 None known

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Control parameters

Chemical name	ACGIH TLV	OSHA PEL	NIOSH	Mexico
Cadusafos	TWA: 0.001 mg/m <sup>3</sup>	-	-	-
(95465-99-9)				
1,6-hexanediamine	TWA: 0.5 ppm	-	-	-
(70%)				
(124-09-4)				
Chemical name	British Columbia	Quebec	Ontario TWAEV	Alberta
Cadusafos	Skin	-	-	-
(95465-99-9)				
Methylene diphenyl	-	-	-	TWA: 0.005 ppm
diisocyanate (polymeric)				TWA: 0.07 mg/m <sup>3</sup>

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(9016-87-9)				
1,6-hexanediamine (70%) (124-09-4)	TWA: 0.5 ppm	TWA: 0.5 ppm TWA: 2.3 mg/m <sup>3</sup>	TWA: 0.5 ppm	TWA: 0.5 ppm TWA: 2.4 mg/m³

#### **Appropriate engineering controls**

**Engineering measures** Apply technical measures to comply with the occupational exposure limits (if listed above).

When working in confined spaces (tanks, containers, etc.), make sure there is an adequate source of air for breathing and wear the recommended equipment. Ventilate all transport

vehicles prior to discharge.

#### Individual protection measures, such as personal protective equipment

**Eye/Face Protection** For exposure to mists or sprays, wear safety goggles or face shield for chemical agents.

a spill, use barrier suit covering the entire body, such as a waterproof PVC suit. Leather items, including shoes, belts and watchbands, that have been contaminated should be removed and destroyed. Wash all work clothing before reuse (separately from clothing

commonly used).

Hand Protection Use protective gloves made of chemical materials such as nitrile or neoprene. Wash the

outside of gloves with soap and water before reuse. Check regularly for leaks.

**Respiratory Protection** For splash, spray or mist exposure wear, as a minimum, a properly fitted half-face or

full-face respirator with dust/mists/fume cartridges (approved by U.S. NIOSH/MSHA, EU CEN or comparably certified organization). Respirator use and selection must be based on

airborne concentrations.

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

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

AppearanceSuspensionPhysical StateLiquidColorGreen

Odor Slight mercaptan

Odor threshold No information available

**pH** 7.4-7.9

Melting point/freezing point Not applicable

Boiling Point/Range No information available

Flash point 89-92 °C / 192-198 °F Tag Closed Cup

Evaporation Rate No information available Flammability (solid, gas) No information available

Flammability Limit in Air

Upper flammability limit:
Lower flammability limit:
Vapor pressure
Vapor density
No information available

Specific gravity 1.05-1.07

Water solubilityNo information availableSolubility in other solventsNo information availablePartition coefficientNo information availableAutoignition temperatureNo information available

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Decomposition temperatureNo information availableViscosity, kinematicNo information availableViscosity, dynamicNo information availableExplosive propertiesNo information availableOxidizing propertiesNo information availableMolecular weightNo information available

Bulk density 1.06 g/cm<sup>3</sup>

## 10. STABILITY AND REACTIVITY

Reactivity Not applicable

Chemical Stability Stable.

Possibility of Hazardous Reactions None under normal processing.

**Hazardous polymerization** Hazardous polymerization does not occur.

**Conditions to avoid** Keep away from open flames, hot surfaces and sources of ignition.

Incompatible materials None known.

Hazardous Decomposition Products Carbon oxides (COx), Phosphorous oxides, Sulfur dioxide.

## 11. TOXICOLOGICAL INFORMATION

#### **Product Information**

 LD50 Oral
 1,097 mg/kg (rat)

 LD50 Dermal
 > 5000 mg/kg (rat)

 LC50 Inhalation
 > 3.87 mg/L 4 hr (rat)

Serious eye damage/eye irritation

Skin corrosion/irritation

Sensitization

Minimally irritating (rabbit).

Non-irritating. Non-sensitizing

#### Information on toxicological effects

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

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. Reduction of blood acetylcholinesterase levels

can occur without symptoms of toxicity.

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

Chronic toxicity Cadusafos: Prolonged exposure caused inhibition of red blood cell and brain

cholinesterase, and decreased motor activity.

Mutagenicity Cadusafos:

Not genotoxic in laboratory studies.

Carcinogenicity Cadusafos: No evidence of carcinogenicity from animal studies.

Neurological effects Cadusafos: Chronic exposure to animals caused decreased motor activity and decreased

cholinesterase activity in brain, red blood cells and plasma.

**Reproductive toxicity** Cadusafos: No toxicity to reproduction in animal studies.

**Developmental toxicity**Cadusafos: Not teratogenic in animal studies.

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

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

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organs below.

Target organ effects Central Nervous System (CNS), Peripheral Nervous System (PNS)

Neurological effects Cadusafos: Chronic exposure to animals caused decreased motor activity and decreased

cholinesterase activity in brain, red blood cells and plasma.

**Aspiration hazard** No information available.

Chemical name	ACGIH	IARC	NTP	OSHA
Cadusafos		Group 2A		
95465-99-9		-		

#### Legend:

IARC (International Agency for Research on Cancer) Group 2A - Probably Carcinogenic to Humans

## 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Cadusafos (95465-99-9)				
Active Ingredient(s)	Duration	Species	Value	Units
Cadusafos	48 h EC50	Crustacea	1.6	μg/L
	96 h LC50	Fish	0.13	mg/L
	72 h EC50	Algae	4.3	mg/L
	21 d NOEC	Crustacea	0.23	μg/L
	21 d NOEC	Fish	5.2	μg/L
	96 h NOEC	Algae	1.0	mg/L

**Persistence and degradability** Cadusafos: Moderately persistent. Does not readily hydrolyze. Not readily biodegradable.

**Bioaccumulation** Cadusafos: The substance does not have a potential for bioconcentration.

**Mobility** Cadusafos: Moderately mobile; Has some potential 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. Proper personal protective equipment, as described in

Sections 7 and 8, must be worn while handling materials for waste disposal.

**Contaminated Packaging**Containers should be disposed of in accordance with local, state and federal regulations.

For removal of the package see the instructions on the label. Handle empty containers and waste product as established in the General Law for the Prevention and Management of Waste Regulations or Management Plan Pesticides Empty Containers, Registered by

SEMARNAT. For further information on the Management plan, visit

http://campolimpio.org.mx/.

#### 14. TRANSPORT INFORMATION

<u>DOT</u>

This material is a Combustible liquid and is, therefore, not subject to the hazardous materials regulations when in non-bulk packages shipped within the USA per 49 CFR

§173.150(f)(2).

UN/ID no Proper Shipping Name Hazard class UN3082

Environmentally hazardous substance, liquid, n.o.s.

Combustible

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Packing Group III

**Description** UN3082, Combustible liquid, n.o.s. (aromatic hydrocarbons), III

The "Marine Pollutant" marking is only applicable when shipped by vessel, and is not

applicable when shipped only by road or rail in Canada.

UN/ID no UN3082

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

Hazard class 9
Packing Group III

Marine Pollutant Cadusafos.

**Description** UN3082 Environmentally hazardous substance, liquid, n.o.s. (Cadusafos), 9, III, Marine

**Pollutant** 

MEX

UN/ID no UN3077

Proper Shipping Name Liquid substance potentially dangerous to the environment, n.o.s.

Hazard class 9
Marine Pollutant Cadusafos

Packing Group III

**Description** UN3077, Liquid substance potentially dangerous to the environment, n.o.s., (Cadusafos), 9,

III, Marine pollutant

Special Provisions Do not transport or store near food products, clothing, or animal feedstuff

ICAO/IATA

UN/ID no UN3082

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

Hazard class 9
Packing Group II

**Description** UN3082 Environmentally hazardous substance, liquid, n.o.s. (Cadusafos), 9, III, Marine

Pollutant

IMDG/IMO

UN/ID no UN3082

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

Hazard class9Packing GroupIIIEmS No.F-A, S-FMarine PollutantCadusafos

Description UN3082 Environmentally hazardous substance, liquid, n.o.s. (Cadusafos), 9, III, Marine

**Pollutant** 

## 15. REGULATORY INFORMATION

This safety data sheet (SDS) has been prepared for use in Mexico only. See the end of this section for specific Mexico information. All other information in this section is not applicable to Mexico, but is being provided for informational purposes only.

# 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:

or orienticale which are easpear to the reporting requi	Torriorito or the 7 tot and Title	o to of the bode of t back	ar regulations, rait or z.
Chemical name	CAS-No	Weight %	SARA 313 - Threshold
			Values %
Methylene diphenyl diisocyanate (polymeric) -	9016-87-9	5-10	1.0
9016-87-9			

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Acute health hazardYesChronic health hazardYesFire hazardYesSudden release of pressure hazardNoReactive HazardNo

#### **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
Sodium Hydroxide 1310-73-2	1000 lb			X
Phosphoric acid 7664-38-2	5000 lb			X
Naphthalene 91-20-3	100 lb	X	Х	Х

#### **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
Sodium Hydroxide	1000 lb	
1310-73-2	454 kg	
Methyl alcohol	5000 lb	
67-56-1	2270 kg	
Phosphoric acid	5000 lb	
7664-38-2	2270 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 swallowed, inhaled or absorbed through the skin. Causes minimal eye irritation.

This product is highly toxic to bees and other pollinating insects.

This pesticide is highly toxic to fish, aquatic invertebrates, and birds.

# **US State Regulations**

## **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

## U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Methylene diphenyl diisocyanate	X		
(polymeric)			
9016-87-9			
1,6-hexanediamine (70%)	Χ	X	
124-09-4			

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## International Inventories

Chemical name	TSCA (United States)	DSL (Canada)	EINECS/ELINC S (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
Cadusafos 95465-99-9						X		
Methylene diphenyl diisocyanate (polymeric) 9016-87-9	Х	X		Х	X	X	Х	Х
Naphtha (petroleum), heavy aromatic 64742-94-5	Х	Х	Х		Х	Х	Х	Х
1,6-hexanediamine (70%) 124-09-4	Х	Х	Х	Х	Х	Х	Х	Х

**Mexico - Grade** 

Moderate risk, Grade 2

Chemical name	Mexico - Pollutant Release and Transfer Register - Reporting Emissions for Fabrication, Process or Use -Threshold Quantities	Pollutant Release and Transfer Register - Reporting Emissions - Threshold Quantities
Methylene diphenyl diisocyanate (polymeric)	100 5000 kg/yr	100 kg/yr

## **WHMIS Statement**

This product has been classified in accordance with the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

**WHMIS Hazard Class** 

B3 - Combustible liquid D2A - Very toxic materials





## Mexico Information

This document has been prepared in accordance with the GHS (Globally Harmonized System). The document consists of 16 points which cover the official Mexican Regulation NOM-018-STPS-2015 Harmonized System for the identification and communication of hazards and risks of dangerous chemical substances, which found in the workplace. 271000.

# COFEPRIS [Federal Commission for the Protection Against Sanitary Risks] Register: RSCO-NEMA-0904-306-064-021

16 OTHER INFORMATION

10. OTHER INFORMATION				
NFPA	Health Hazards 2	Flammability 2	Instability 0	Special Hazards -
HMIS	Health Hazards 2*	Flammability 2	Physical hazard 0	Personal Protection X

\*Indicates a chronic health hazard.

NFPA/HMIS Ratings Legend Severe = 4; Serious = 3; Moderate = 2; Slight = 1; Minimal = 0

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**End of Safety Data Sheet**