according to the Hazardous Products Regulations



# Pyroxasulfone 85 WG

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### **SECTION 1. IDENTIFICATION**

Product identifier

Product name Pyroxasulfone 85 WG

Other means of identification

Product code 50002920

Recommended use of the chemical and restrictions on use

Recommended use Herbicide

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

Details of the supplier of the safety data sheet

<u>Manufacturer</u> FMC Corporation

2929 WALNUT ST

PHILADELPHIA PA 19104

USA

Phone (AgHotline): 1-833-FMC-PPAC (1-833-362-7722),

Web: https://ag.fmc.com/ca/en

SDS-Info@fmc.com

**Emergency telephone** 

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

1 800 / 424-9300 (CHEMTREC - U.S.A.) 1 703 / 741-5970 (CHEMTREC - International) 1 703 / 527-3887 (CHEMTREC - Alternate)

Medical emergency:

U.S.A. & Canada: +1 800 / 331-3148

All other countries: +1 651 / 632-6793 (Collect)

### **SECTION 2. HAZARDS IDENTIFICATION**

### GHS classification in accordance with the Hazardous Products Regulations

Specific target organ toxicity : Category 2 (Nervous system, Kidney, Liver, Cardio-vascular

- repeated exposure system, Bladder)

**GHS label elements** 

Hazard pictograms :



Signal Word : Warning

Hazard Statements : H373 May cause damage to organs through prolonged or re-

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peated exposure.

Precautionary Statements : Prevention:

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

P273 Avoid release to the environment.

Response:

P314 Get medical attention if you feel unwell.

P391 Collect spillage.

Disposal:

P501 Dispose of contents/ container to an approved waste dis-

posal plant.

#### Other hazards

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

#### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
Pyroxasulfone	Pyroxasulfone	447399-55-5	85

### **SECTION 4. FIRST AID MEASURES**

General advice : Treat symptomatically.

If inhaled : If symptoms persist, call a physician.

In case of skin contact : Wash off with warm water.

If skin irritation persists, call a physician.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids,

for at least 5 minutes.

If eye irritation persists, consult a specialist.

If swallowed : Get medical advice/ attention if you feel unwell.

Most important symptoms and effects, both acute and

delayed

May cause damage to organs through prolonged or repeated

exposure.

Protection of first-aiders : First Aid responders should pay attention to self-protection

and use the recommended protective clothing

Avoid inhalation, ingestion and contact with skin and eyes. If potential for exposure exists refer to Section 8 for specific

personal protective equipment.

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Notes to physician : Treat symptomatically.

**SECTION 5. FIRE-FIGHTING MEASURES** 

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

Dry sand

Unsuitable extinguishing

media

High volume water jet

Specific hazards during fire

fighting

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

courses.

Hazardous combustion prod: :

ucts

Carbon oxides
Hydrogen fluoride

Fluorinated compounds Nitrogen oxides (NOx)

Sulfur oxides Sulphuric acid Hydrogen cyanide

Fire may produce irritating, corrosive and/or toxic gases.

Further information : 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

Wear self-contained breathing apparatus for firefighting if nec-

essary.

**SECTION 6. ACCIDENTAL RELEASE MEASURES** 

Personal precautions, protec: :

tive equipment and emer-

gency procedures

Use personal protective equipment.

Avoid breathing dust.

Ensure adequate ventilation.

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.

**SECTION 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.

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Do not breathe vapors/dust.

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 : 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.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

### 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 : Dust impervious protective suit

Choose body protection according to the amount and concentration 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.

Wear suitable protective equipment.

Ensure that eye flushing systems and safety showers are

located close to the working place.

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Hygiene measures : When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday.

### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state : solid

Form : granular

Color : light brown

Odor : characteristic

Odor Threshold : No data available

Melting point/freezing point : 130.7 °C

Data on the active ingredient only

Initial boiling point and boiling

range

362.4 °C

Data on the active ingredient only

Flash point : No data available

Self-ignition : No data available

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower :

flammability limit

No data available

Vapor pressure : 0.0000024 Pa (25 °C)

Data on the active ingredient only

Relative density : 1.6

Density : 1.60 g/cm3

Data on the active ingredient only

Solubility(ies)

Water solubility : 3.48 mg/l Data on the active ingredient only (20 °C)

Solubility in other solvents : 250 g/l (20 °C)

Data on the active ingredient only

Solvent: Acetone

11.4 g/l (20 °C)

according to the Hazardous Products Regulations



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Data on the active ingredient only

Solvent: Methanol

3.48 g/l (20 °C)

Data on the active ingredient only

Solvent: water

0.0721 g/l (20 °C)

Data on the active ingredient only

Solvent: n-hexane

11.3 g/l (20 °C)

Data on the active ingredient only

Solvent: Toluene

151 g/l (20 °C)

Data on the active ingredient only Solvent: 1,2-Dichloroethane

97.0 g/l (20 °C)

Data on the active ingredient only

Solvent: ethyl acetate

Autoignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

#### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No data available

Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous reac-

tions

No decomposition if stored and applied as directed.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : Strong acids and strong bases

### **SECTION 11. TOXICOLOGICAL INFORMATION**

## **Acute toxicity**

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

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**Product:** 

Acute inhalation toxicity : LC50: > 5.8 mg/l

Test atmosphere: dust/mist

Acute toxicity estimate: > 5 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist Method: Calculation method

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

**Components:** 

Pyroxasulfone:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg

Remarks: no mortality

Acute inhalation toxicity : LC50 (Rat): > 6.56 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist Remarks: no mortality

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

Remarks: no mortality

Skin corrosion/irritation

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

**Product:** 

Remarks : No data available

**Components:** 

Pyroxasulfone:

Species : Rabbit

Result : No skin irritation

Serious eye damage/eye irritation

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

**Product:** 

Remarks : No data available

**Components:** 

Pyroxasulfone:

Species : Rabbit

Result : slight irritation

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### 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:** 

Remarks : No data available

**Components:** 

Pyroxasulfone:

Test Type : Local lymph node assay (LLNA)

Species : Mouse

Result : Does not cause skin sensitization.

Germ cell mutagenicity

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

Components:

Pyroxasulfone:

Genotoxicity in vitro : Test Type: Ames test

Result: negative

Test Type: In vitro mammalian cell gene mutation test

Result: negative

Test Type: Chromosome aberration test in vitro

Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test

Species: Mouse Result: negative

Germ cell mutagenicity -

: Weight of evidence does not support classification as a germ cell mutagen.

Assessment

Carcinogenicity

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

**Components:** 

Pyroxasulfone:

Species : Rat, male Exposure time : 2 Years

: 2.2 mg/kg bw/day

Result : positive Target Organs : Bladder

Carcinogenicity - Assess- : Limited evidence of carcinogenicity in animal studies

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ment

### Reproductive toxicity

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

#### Components:

### Pyroxasulfone:

## STOT-single exposure

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

#### STOT-repeated exposure

Causes damage to organs (Nervous system, Kidney, Liver, Cardio-vascular system, Bladder) through prolonged or repeated exposure.

#### **Components:**

## Pyroxasulfone:

Target Organs : Nervous system, Kidney, Liver, Cardio-vascular system, Blad-

der

Assessment : The substance or mixture is classified as specific target organ

toxicant, repeated exposure, category 1.

#### **Aspiration toxicity**

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

#### **Further information**

**Product:** 

Remarks : No data available

#### **SECTION 12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

**Product:** 

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): > 1,000 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

LC50 (Daphnia magna (Water flea)): > 1,000 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

ErC50 (Selenastrum capricornutum (green algae)): 0.00263

mg/I

Exposure time: 72 h

NOEC (Selenastrum capricornutum (green algae)): 0.00060

mg/I

Exposure time: 72 h

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**Components:** 

Pyroxasulfone:

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): > 202 mg/l

Exposure time: 96 h

LL50 (Lepomis macrochirus (Bluegill sunfish)): > 208 mg/l

Exposure time: 96 h

LL50 (Cyprinodon variegatus (sheepshead minnow)): > 3.3

mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EL50 (Daphnia magna (Water flea)): > 4.4 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

ErC50 (green algae): 0.000743 mg/l

Exposure time: 72 h

EC50 (Lemna gibba (duckweed)): 0.00043 mg/l

Exposure time: 7 d

Toxicity to fish (Chronic tox-

icity)

NOEC (Pimephales promelas (fathead minnow)): 2 mg/l

Exposure time: 28 d

Toxicity to daphnia and other :

aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia magna (Water flea)): 1.9 mg/l

Exposure time: 21 d

Toxicity to soil dwelling or-

ganisms

LC50 (Eisenia fetida (earthworms)): > 997 mg/kg

Exposure time: 14 d

Toxicity to terrestrial organ-

isms

LD50 (Apis mellifera (bees)): > 100 µg/bee

Exposure time: 48 d Remarks: Contact

LOEC (Anas platyrhynchos (Mallard duck)): 60 mg/kg

End point: Reproduction Test

Persistence and degradability

**Components:** 

Pyroxasulfone:

Biodegradability : Result: Not readily biodegradable.

Bioaccumulative potential

**Components:** 

Pyroxasulfone:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

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Partition coefficient: n-

octanol/water

: log Pow: 2.39 (25 °C)

Mobility in soil

**Components:** 

Pyroxasulfone:

Distribution among environ-

mental compartments

Adsorption/Soil

Koc: 57 - 114 ml/g, log Koc: > 1.75

Remarks: Highly mobile in soils

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.

Very toxic to aquatic life with long lasting effects.

**SECTION 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.

**SECTION 14. TRANSPORT INFORMATION** 

**International Regulations** 

**UNRTDG** 

UN number : UN 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(Pyroxasulfone)

Class : 9

Subsidiary risk : ENVIRONM.

Packing group : III

Labels : 9 (ENVIRONM.)

Environmentally hazardous : yes

IATA-DGR

UN/ID No. : UN 3077

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according to the Hazardous Products Regulations



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Proper shipping name : Environmentally hazardous substance, solid, n.o.s.

(Pyroxasulfone)

Class : 9 Packing group : III

Labels : Miscellaneous

Packing instruction (cargo :

aircraft)

Packing instruction (passen- : 956

ger aircraft)

Environmentally hazardous : yes

**IMDG-Code** 

UN number : UN 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

956

(Pyroxasulfone)

Class : 9
Packing group : III
Labels : 9
EmS Code : F-A, S-F
Marine pollutant : yes

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

Not applicable for product as supplied.

### **Domestic regulation**

**TDG** 

UN number : UN 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

Class : 9
Packing group : III
Labels : 9
ERG Code : 171
Marine pollutant : yes()

### 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.

## **SECTION 15. REGULATORY INFORMATION**

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

TCSI : Not in compliance with the inventory

TSCA : Product contains substance(s) not listed on TSCA inventory.

AIIC : Not in compliance with the inventory

DSL : This product contains the following components that are not

on the Canadian DSL nor NDSL.

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**INERT INGREDIENTS (NULL)** 

ENCS : Not in compliance with the inventory

ISHL : Not in compliance with the inventory

KECI : Not in compliance with the inventory

PICCS : Not in compliance with the inventory

IECSC : Not in compliance with the inventory

NZIoC : Not in compliance with the inventory

TECI: Not in compliance with the inventory

#### **Canadian lists**

No substances are subject to a Significant New Activity Notification.

#### **SECTION 16. OTHER INFORMATION**

#### 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 Tem-

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perature; 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

#### Disclaimer

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End of Material Safety Data Sheet