

SAFETY DATA SHEET



Rynaxypyr® 5% DT

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11.07.2023	50002761	Date of first issue: 11.07.2023

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Rynaxypyr® 5% DT

Manufacturer or supplier's details

Company : FMC QUÍMICA DO BRASIL LTDA.

Address : AVENIDA DR. JOSÉ BONIFÁCIO
COUTINHO NOGUEIRA 150 - 1º
ANDAR - JARDIM MADALENA,
CAMPINAS SP BRASIL

Telephone : (19) 2042-4500

Emergency telephone : Brazil: (34) 3319 3019 or 0800 34 35 450 (24 hours)
+55-2139581449 (CHEMTREC)

Recommended use of the chemical and restrictions on use

Recommended use : Can be used as insecticide only.

Restrictions on use : Use as recommended by the label.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification in accordance with ABNT NBR 14725 Standard

Skin corrosion/irritation : Category 3

Short-term (acute) aquatic hazard : Category 1

Long-term (chronic) aquatic hazard : Category 1

GHS label elements in accordance with ABNT NBR 14725 Standard

Hazard pictograms :



Signal Word : Warning

Hazard Statements : H316 Causes mild skin irritation.
H410 Very toxic to aquatic life with long lasting effects.

SAFETY DATA SHEET



Rynaxypyr® 5% DT

Version 1.0 Revision Date: 11.07.2023 SDS Number: 50002761 Date of last issue: -
Date of first issue: 11.07.2023

Precautionary Statements : **Prevention:**
P273 Avoid release to the environment.

Response:
P332 + P313 If skin irritation occurs: Get medical advice/attention.
P391 Collect spillage.

Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Classification	Concentration (% w/w)
sodium hydrogencarbonate	144-55-8	Acute toxicity (Oral), Category 5	≥ 30 -< 50
(+/-)-tartaric acid	133-37-9	Acute toxicity (Oral), Category 5 Serious eye damage, Category 1 Short-term (acute) aquatic hazard, Category 3	≥ 20 -< 25
sodium carbonate	497-19-8	Acute toxicity (Oral), Category 5 Acute toxicity (Dermal), Category 5 Eye irritation, Category 2A	≥ 5 -< 10
Talc (Mg ₃ H ₂ (SiO ₃) ₄)	14807-96-6	Not Classified	≥ 5 -< 10
Chlorantraniliprole	500008-45-7	Short-term (acute) aquatic hazard, Category 1 Long-term (chronic) aquatic hazard, Category 1	$\geq 2,5$ -< 5

SECTION 4. FIRST AID MEASURES

SAFETY DATA SHEET



Rynaxypyr® 5% DT

Version 1.0	Revision Date: 11.07.2023	SDS Number: 50002761	Date of last issue: - Date of first issue: 11.07.2023
----------------	------------------------------	-------------------------	--

- | | |
|---|---|
| General advice | : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended. |
| If inhaled | : If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician. |
| In case of skin contact | : If skin irritation persists, call a physician.
If on skin, rinse well with water.
If on clothes, remove clothes. |
| In case of eye contact | : Flush eyes with water as a precaution.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist. |
| If swallowed | : Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician. |
| Most important symptoms and effects, both acute and delayed | : Skin contact may result in itching and redness. Eye contact may result in itching, watery eyes, light sensitivity, pain, and/or blurred vision.
Causes mild skin irritation. |
| Protection of first-aiders | : Avoid inhalation, ingestion and contact with skin and eyes. |
| Notes to physician | : Treat symptomatically. |
-

SECTION 5. FIRE-FIGHTING MEASURES

- | | |
|---------------------------------------|---|
| Suitable extinguishing media | : Dry chemical, CO ₂ , water spray or regular foam. |
| Unsuitable extinguishing media | : Do not spread spilled material with high-pressure water streams. |
| Specific hazards during fire fighting | : Do not allow run-off from fire fighting to enter drains or water courses. |
| Hazardous combustion products | : Fire may produce irritating, corrosive and/or toxic gases.
Nitrogen oxides (NO _x)
Carbon oxides
Bromine compounds
Chlorine compounds
Hydrogen cyanide
Hydrogen chloride |
| Specific extinguishing methods | : Use a water spray to cool fully closed containers.
Remove undamaged containers from fire area if it is safe to do |

SAFETY DATA SHEET



Rynaxypyr® 5% DT

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11.07.2023	50002761	Date of first issue: 11.07.2023

so.

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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 : Firefighters should wear protective clothing and self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Do not touch or walk through the spilled material.
If it can be safely done, stop the leak.
Use personal protective equipment.
Evacuate personnel to safe areas.
Avoid dust formation.
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 : Never return spills in original containers for re-use. Pick up and transfer the spilled material to a properly labeled container without creating dust. For spills on concrete or other non-porous surfaces, the area can be cleaned using a small quantity of soap and water. Do not allow the cleaning solution to enter drains. Use an inert absorbent material to soak up the cleaning solution and transfer it to the properly labeled container. When the spill occurs on soil, the only effective way to decontaminate the area is to remove the top 5 to 7 centimeters of soil.

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 contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Dispose of rinse water in accordance with local and national regulations.

SAFETY DATA SHEET



Rynaxypyr® 5% DT

Version 1.0 Revision Date: 11.07.2023 SDS Number: 50002761 Date of last issue: -
Date of first issue: 11.07.2023

- Hygiene measures : Avoid contact with skin, eyes and clothing.
Do not breathe dust.
When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.
- 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.
Electrical installations / working materials must comply with the technological safety standards.
- Further information on storage stability : No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Talc ($\text{Mg}_3\text{H}_2(\text{SiO}_3)_4$)	14807-96-6	LT	8,5 mppcd / (% quartz+10)	BR OEL
		Further information: It is always understood that 'Quartz' means free silica crystallized., The limit value applies to workhours up to 48 hours/week. For weeks with more than 48 workhours, the competent authorities must set limit values., mppcd = million particles per cubic decimeter		
		LT (Respirable dust)	8 mg/m ³ / (% quartz+2)	BR OEL
		Further information: It is always understood that 'Quartz' means free silica crystallized., The limit value applies to workhours up to 48 hours/week. For weeks with more than 48 workhours, the competent authorities must set limit values.		
		LT (Total dust)	24 mg/m ³ / (% quartz+3)	BR OEL
		Further information: It is always understood that 'Quartz' means free silica crystallized., The limit value applies to workhours up to 48 hours/week. For weeks with more than 48 workhours, the competent authorities must set limit values.		
		LT	8,5 mppcd / (% quartz+10) (Silica)	BR OEL
		LT (Respirable)	8 mg/m ³ / (% quartz+2)	BR OEL

SAFETY DATA SHEET



Rynaxypyr® 5% DT

Version 1.0 Revision Date: 11.07.2023 SDS Number: 50002761 Date of last issue: -
Date of first issue: 11.07.2023

		dust)	(Silica)	
		LT (Total dust)	24 mg/m ³ / (% quartz+3) (Silica)	BR OEL
		TWA	0,1 fibres per cubic centimeter	ACGIH
		TWA (Respirable particulate matter)	2 mg/m ³	ACGIH

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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state : solid
- Form : tablet
- Color : white
- Odor : mild aromatic
- Odor Threshold : No data available

SAFETY DATA SHEET



Rynaxypyr® 5% DT

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11.07.2023	50002761	Date of first issue: 11.07.2023

pH	:	7,03 (25 °C) In a 1% aqueous dispersion
Melting point/freezing point	:	No data available
Boiling point/boiling range	:	Not applicable
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	Not highly flammable Method: Regulation (EC) No. 440/2008, Annex, A.10
Self-ignition	:	Method: Regulation (EC) No. 440/2008, Annex, A.16 does not ignite
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	Not applicable
Relative vapor density	:	Not applicable
Relative density	:	No data available
Density	:	No data available
Bulk density	:	860 kg/m ³ Pour density 930 kg/m ³ Tap density
Solubility(ies) Water solubility	:	No data available
Partition coefficient: n-octanol/water	:	Not applicable
Autoignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity Viscosity, dynamic	:	Not applicable
Viscosity, kinematic	:	Not applicable

SAFETY DATA SHEET



Rynaxypyr® 5% DT

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11.07.2023	50002761	Date of first issue: 11.07.2023

Explosive properties	:	Not explosive Method: Regulation (EC) No. 440/2008, Annex, A.14
Oxidizing properties	:	The substance or mixture is not classified as oxidizing. Method: Regulation (EC) No. 440/2008, Annex, A.17
Surface tension	:	Not applicable
Molecular weight	:	Not applicable

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No decomposition if stored and applied as directed.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	No decomposition if stored and applied as directed.
Conditions to avoid	:	Heat, flames and sparks. Avoid extreme temperatures. Avoid dust formation.
Incompatible materials	:	Avoid strong acids, bases, and oxidizers.
Hazardous decomposition products	:	Stable under recommended storage conditions.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity	:	LD50 (Rat, female): > 5.000 mg/kg Method: OECD Test Guideline 425
Acute inhalation toxicity	:	LC50 (Rat, male and female): > 2,95 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: The substance or mixture has no acute inhalation toxicity
Acute dermal toxicity	:	LD50 (Rat, male and female): > 5.000 mg/kg Method: OECD Test Guideline 402

Rynaxypyr® 5% DT

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11.07.2023	50002761	Date of first issue: 11.07.2023

Components:**sodium hydrogencarbonate:**

Acute oral toxicity : LD50 (Rat, male and female): > 4.000 mg/kg

(+/-)-tartaric acid:

Acute oral toxicity : LD50 (Rat, female): > 2.000 - < 5.000 mg/kg
Method: OECD Test Guideline 423
Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rat, male and female): > 2.000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: Based on data from similar materials

sodium carbonate:

Acute oral toxicity : LD50 (Rat, male and female): 2.800 mg/kg

Acute inhalation toxicity : LC50 (Rat, male): 2,3 mg/l
Exposure time: 2 h
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg
Target Organs: Skin
Symptoms: Erythema

Talc ($\text{Mg}_3\text{H}_2(\text{SiO}_3)_4$):

Acute oral toxicity : LD0 (Rat, male): > 5.000 mg/kg
Method: OECD Test Guideline 423
Remarks: no mortality

Acute inhalation toxicity : LC0 (Rat, male and female): > 2,1 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Remarks: no mortality

Acute dermal toxicity : LD0 (Rat, male and female): > 2.000 mg/kg
Method: OECD Test Guideline 402
Remarks: no mortality

Chlorantraniliprole:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg
Method: OECD Test Guideline 425
GLP: yes
Remarks: Information source: Internal study report

Acute inhalation toxicity : LC50 (Rat, male and female): > 5,1 mg/l
Exposure time: 4 h

SAFETY DATA SHEET



Rynaxypyr® 5% DT

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11.07.2023	50002761	Date of first issue: 11.07.2023

Test atmosphere: dust/mist
Method: OECD Test Guideline 403
GLP: yes
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: Information source: Internal study report

Acute dermal toxicity : LD50 (Rat, male and female): > 5.000 mg/kg
Method: OECD Test Guideline 402
GLP: yes
Remarks: Information source: Internal study report

Skin corrosion/irritation

Causes mild skin irritation.

Product:

Species : Rabbit
Assessment : Causes mild skin irritation.
Method : OECD Test Guideline 404
Result : Mild skin irritation

Components:

sodium hydrogencarbonate:

Species : Rabbit
Result : slight irritation

(+/-)-tartaric acid:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation
Remarks : Based on data from similar materials

sodium carbonate:

Species : Rabbit
Exposure time : 4 h
Method : OECD Test Guideline 404
Result : No skin irritation

Talc (Mg₃H₂(SiO₃)₄):

Species : reconstructed human epidermis (RhE)
Result : No skin irritation

Chlorantraniliprole:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation
GLP : yes
Remarks : Information source: Internal study report

SAFETY DATA SHEET



Rynaxypyr® 5% DT

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11.07.2023	50002761	Date of first issue: 11.07.2023

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Species	:	Rabbit
Result	:	Slight or no eye irritation
Assessment	:	Not classified as irritant
Method	:	OECD Test Guideline 405

Components:

sodium hydrogencarbonate:

Species	:	Rabbit
Result	:	No eye irritation
Method	:	OECD Test Guideline 405

(+/-)-tartaric acid:

Species	:	Bovine cornea
Result	:	Irreversible effects on the eye
Method	:	OECD Test Guideline 437
Remarks	:	Based on data from similar materials

sodium carbonate:

Species	:	Rabbit
Result	:	Irritation to eyes, reversing within 21 days

Talc ($\text{Mg}_3\text{H}_2(\text{SiO}_3)_4$):

Species	:	Rabbit
Result	:	No eye irritation
Method	:	OECD Test Guideline 405

Chlorantraniliprole:

Species	:	Rabbit
Result	:	No eye irritation
Method	:	OECD Test Guideline 405
GLP	:	yes
Remarks	:	Information source: Internal study report

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Product:

Test Type	:	Local lymph node assay (LLNA)
-----------	---	-------------------------------

SAFETY DATA SHEET



Rynaxypyr® 5% DT

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11.07.2023	50002761	Date of first issue: 11.07.2023

Species	: Mouse
Method	: OECD Test Guideline 429
Result	: Not a skin sensitizer.

Components:

(+/-)-tartaric acid:

Test Type	: Local lymph node assay (LLNA)
Species	: Mouse
Method	: OECD Test Guideline 429
Result	: Not a skin sensitizer.
Remarks	: Based on data from similar materials

Talc (Mg₃H₂(SiO₃)₄):

Test Type	: Maximization Test
Routes of exposure	: Dermal
Species	: Guinea pig
Method	: OECD Test Guideline 406
Result	: Does not cause skin sensitization.

Routes of exposure	: Inhalation
Species	: Rat
Result	: Does not cause respiratory sensitization.

Chlorantraniliprole:

Test Type	: Maximization Type
Species	: Guinea pig
Method	: OECD Test Guideline 406
Result	: Does not cause skin sensitization.
GLP	: yes
Remarks	: Information source: Internal study report

Test Type	: Local lymph node assay (LLNA)
Species	: mice
Method	: OECD Test Guideline 429
Result	: Does not cause skin sensitization.

Germ cell mutagenicity

Not classified based on available information.

Components:

sodium hydrogencarbonate:

Genotoxicity in vitro	: Test Type: in vitro DNA damage and/or repair study
	Result: negative

(+/-)-tartaric acid:

Germ cell mutagenicity - Assessment	: Weight of evidence does not support classification as a germ cell mutagen.
-------------------------------------	--

SAFETY DATA SHEET



Rynaxypyr® 5% DT

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11.07.2023	50002761	Date of first issue: 11.07.2023

sodium carbonate:

Genotoxicity in vitro	: Test Type: reverse mutation assay Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay) Result: negative Remarks: Based on data from similar materials
Germ cell mutagenicity - Assessment	: Weight of evidence does not support classification as a germ cell mutagen.

Talc (Mg₃H₂(SiO₃)₄):

Genotoxicity in vitro	: Test Type: In vitro mammalian cell gene mutation test Result: negative Test Type: gene mutation test Method: QSAR Result: negative Test Type: reverse mutation assay Result: negative
Genotoxicity in vivo	: Test Type: dominant lethal test Species: Rat (male) Application Route: Oral Result: negative
Germ cell mutagenicity - Assessment	: Weight of evidence does not support classification as a germ cell mutagen.

Chlorantraniliprole:

Genotoxicity in vitro	: Test Type: reverse mutation assay Metabolic activation: with and without metabolic activation Result: negative Test Type: In vitro mammalian cell gene mutation test Test system: Chinese hamster ovary cells Method: OECD Test Guideline 476 Result: negative
Genotoxicity in vivo	: Test Type: Micronucleus test Species: Mouse Method: OECD Test Guideline 474 Result: negative
Germ cell mutagenicity - Assessment	: Weight of evidence does not support classification as a germ cell mutagen.

Carcinogenicity

Not classified based on available information.

SAFETY DATA SHEET



Rynaxypyr® 5% DT

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11.07.2023	50002761	Date of first issue: 11.07.2023

Components:

sodium hydrogencarbonate:

Species	:	Rat
Application Route	:	Oral
Exposure time	:	104 weeks
Result	:	negative

(+/-)-tartaric acid:

Carcinogenicity - Assessment	:	Weight of evidence does not support classification as a carcinogen
------------------------------	---	--

Talc (Mg₃H₂(SiO₃)₄):

Species	:	Rat, male and female
Application Route	:	Oral
Exposure time	:	101 days
Dose	:	100 mg/kg bw/day
NOAEL	:	100 mg/kg bw/day
Method	:	OECD Test Guideline 453
Result	:	negative
Target Organs	:	Stomach
Tumor Type	:	Leiomyosarcoma

Carcinogenicity - Assessment	:	Weight of evidence does not support classification as a carcinogen
------------------------------	---	--

Chlorantraniliprole:

Species	:	Rat, male and female
Application Route	:	Oral
Exposure time	:	2 Years
NOAEL	:	805 - 1.076 mg/kg bw/day
Method	:	OECD Test Guideline 453
Result	:	negative

Species	:	Mouse, male and female
Application Route	:	Oral
Exposure time	:	18 month(s)
NOAEL	:	158 - 1.155 mg/kg bw/day
Method	:	OECD Test Guideline 453
Result	:	negative

Carcinogenicity - Assessment	:	Animal testing did not show any carcinogenic effects.
------------------------------	---	---

Reproductive toxicity

Not classified based on available information.

Components:

(+/-)-tartaric acid:

SAFETY DATA SHEET



Rynaxypyr® 5% DT

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11.07.2023	50002761	Date of first issue: 11.07.2023

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

sodium carbonate:

Effects on fetal development : Species: Rat
Application Route: Oral
Dose: 2.45, 11.4, 52.9, 245 milligram per kilogram
Duration of Single Treatment: 6 - 15 d
General Toxicity Maternal: NOAEL: > 245 mg/kg body weight
Teratogenicity: NOAEL: > 245 mg/kg body weight
Result: negative

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

Talc (Mg₃H₂(SiO₃)₄):

Effects on fertility : Species: Rabbit, female
Application Route: Oral
Dose: 9, 42, 195, 900 mg/kg bw/day
General Toxicity Parent: NOAEL: > 900 mg/kg body weight
General Toxicity F1: NOAEL: > 900 mg/kg body weight
Result: negative

Effects on fetal development : Test Type: reproductive and developmental toxicity study
Species: Rat
Application Route: Oral
Dose: 0,16,74,350,1600mg/kg bw/day
Duration of Single Treatment: 20 d
General Toxicity Maternal: NOAEL: >= 1.600 mg/kg bw/day
Embryo-fetal toxicity.: NOAEL: 1.600 mg/kg bw/day
Result: negative

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

Chlorantraniliprole:

Effects on fertility : Test Type: Two-generation study
Species: Rat, male and female
Application Route: Oral
General Toxicity Parent: NOAEL: 20.000 ppm
General Toxicity F1: NOAEL: 20.000 ppm
Method: OECD Test Guideline 416
Result: negative

Effects on fetal development : Test Type: Pre-natal
Species: Rat
Application Route: Oral
Duration of Single Treatment: 6 - 20 d
General Toxicity Maternal: NOEL: 1.000 mg/kg bw/day
Developmental Toxicity: NOEL: 1.000 mg/kg bw/day
Method: OECD Test Guideline 414

SAFETY DATA SHEET



Rynaxypyr® 5% DT

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11.07.2023	50002761	Date of first issue: 11.07.2023

Result: negative

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

STOT-single exposure

Not classified based on available information.

Components:

(+/-)-tartaric acid:

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

Talc (Mg₃H₂(SiO₃)₄):

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

Chlorantraniliprole:

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT-repeated exposure

Not classified based on available information.

Components:

(+/-)-tartaric acid:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

sodium carbonate:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Chlorantraniliprole:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity

Components:

sodium carbonate:

Species	: Rat, male and female
NOAEL	: > 0,01 mg/kg
Application Route	: inhalation (dust/mist/fume)
Test atmosphere	: dust/mist

SAFETY DATA SHEET



Rynaxypyr® 5% DT

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11.07.2023	50002761	Date of first issue: 11.07.2023

Talc (Mg₃H₂(SiO₃)₄):

Species	: Rat, male and female
NOAEL	: 100 mg/kg
Application Route	: Oral - feed
Exposure time	: 101 d
Dose	: 100 mg/kg bw/day

Species	: Rat, male and female
NOAEL	: 2 mg/m ³
LOAEL	: 6 mg/m ³
Application Route	: inhalation (dust/mist/fume)
Test atmosphere	: dust/mist
Exposure time	: 20 d
Dose	: 0, 2, 6, 18 mg/m ³

Chlorantraniliprole:

Species	: Rat, male and female
NOEL	: 1188 - 1526 mg/kg
Application Route	: Oral
Exposure time	: 90 d
Method	: OECD Test Guideline 408

Aspiration toxicity

Not classified based on available information.

Components:

Chlorantraniliprole:

The substance does not have properties associated with aspiration hazard potential.

Further information

Product:

Remarks	: No data available
---------	---------------------

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish	: LC ₅₀ (Oncorhynchus mykiss (rainbow trout)): > 0,7 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203
------------------	--

Toxicity to soil dwelling organisms	: NOEC (Eisenia andrei (red worm)): 1.000 mg/kg Exposure time: 14 d Method: OECD Test Guideline 207
-------------------------------------	---

SAFETY DATA SHEET



Rynaxypyr® 5% DT

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11.07.2023	50002761	Date of first issue: 11.07.2023

LC50 (*Eisenia andrei* (red worm)): > 1.000 mg/kg
Exposure time: 14 d
Method: OECD Test Guideline 207

Toxicity to terrestrial organisms : NOEL (*Colinus virginianus* (Bobwhite quail)): 5.000 mg/kg
End point: Acute oral toxicity
Method: OECD Test Guideline 223

LD50 (*Colinus virginianus* (Bobwhite quail)): > 5.000 mg/kg
End point: Acute oral toxicity
Method: OECD Test Guideline 223

LD50 (*Apis mellifera* (bees)): > 68,3 µg/bee
Exposure time: 48 h
End point: Acute oral toxicity
Method: OECD Test Guideline 213

LD50 (*Apis mellifera* (bees)): > 100 µg/bee
Exposure time: 72 h
End point: Acute contact toxicity
Method: OECD Test Guideline 214

Components:

sodium hydrogencarbonate:

Toxicity to fish : LC50 (*Lepomis macrochirus* (Bluegill sunfish)): 7.100 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 4.100 mg/l
Exposure time: 48 h

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (*Daphnia magna* (Water flea)): > 576 mg/l
Exposure time: 21 d

(+/-)-tartaric acid:

Toxicity to fish : LC50 (*Danio rerio* (zebra fish)): > 100 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 93,31 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : EC50 (*Desmodesmus subspicatus* (green algae)): > 100 mg/l
Exposure time: 72 h
Test Type: semi-static test

SAFETY DATA SHEET



Rynaxypyr® 5% DT

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11.07.2023	50002761	Date of first issue: 11.07.2023

Method: OECD Test Guideline 201
Remarks: Based on data from similar materials

sodium carbonate:

Toxicity to fish : LC50 (*Lepomis macrochirus* (Bluegill sunfish)): 300 mg/l
Exposure time: 96 h
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Ceriodaphnia* (water flea)): 200 mg/l
Exposure time: 48 h
Test Type: semi-static test

Talc (Mg₃H₂(SiO₃)₄):

Toxicity to fish : LC50 (Fish): 89.581,016 mg/l
Exposure time: 96 h
Method: QSAR

Toxicity to daphnia and other aquatic invertebrates : LC50 (*Daphnia magna* (Water flea)): 36.812,359 mg/l
Exposure time: 48 h
Method: QSAR

Toxicity to algae/aquatic plants : NOEC (green algae): 918,089 mg/l
Exposure time: 30 d
Method: QSAR

EC50 (green algae): 7.202,7 mg/l
Exposure time: 96 h
Method: QSAR

Toxicity to fish (Chronic toxicity) : NOEC (Fish): 1.412,648 mg/l
Exposure time: 30 d
Method: QSAR

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (*Daphnia*): 1.459,798 mg/l
Exposure time: 30 d
Method: QSAR

Chlorantraniliprole:

Toxicity to fish : LC50 (*Oncorhynchus mykiss* (rainbow trout)): 13,8 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203
Remarks: Information source: Internal study report

LC50 (*Lepomis macrochirus* (Bluegill sunfish)): > 15,1 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203
GLP: yes
Remarks: Information source: Internal study report

SAFETY DATA SHEET



Rynaxypyr® 5% DT

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11.07.2023	50002761	Date of first issue: 11.07.2023

- LC50 (Cyprinodon sp. (minnow)): > 12 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : LC50 (Hyaella azteca (Amphipod)): 0,26 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
GLP: yes
- LC50 (Ceriodaphnia dubia (water flea)): 0,0067 - 0,011 mg/l
Exposure time: 48 h
- Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): > 2 mg/l
Exposure time: 120 h
- NOEC (Lemna gibba (duckweed)): 2 mg/l
Exposure time: 14 d
- ErC50 (Selenastrum capricornutum (green algae)): > 2 mg/l
Exposure time: 72 h
- M-Factor (Acute aquatic toxicity) : 10
- Toxicity to fish (Chronic toxicity) : NOEC (Cyprinodon variegatus (sheepshead minnow)): 1,28 mg/l
Exposure time: 36 d
- NOEC (Oncorhynchus mykiss (rainbow trout)): 0,110 mg/l
Exposure time: 28 d
Method: OECD Test Guideline 210
GLP: yes
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0,00447 mg/l
Exposure time: 21 d
Method: US EPA Test Guideline OPPTS 850.1300
GLP: yes
- M-Factor (Chronic aquatic toxicity) : 10
- Toxicity to soil dwelling organisms : LC50 (Eisenia fetida (earthworms)): > 1.000 mg/kg
Exposure time: 14 d
Method: OECD Test Guideline 207
GLP: yes
- Remarks: No significant adverse effect on Nitrogen mineralization.
No significant adverse effect on Carbon mineralization.
- Toxicity to terrestrial : LD50 (Apis mellifera (bees)): > 4,0 µg/bee

SAFETY DATA SHEET



Rynaxypyr® 5% DT

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11.07.2023	50002761	Date of first issue: 11.07.2023

organisms

Exposure time: 72 h
End point: Acute contact toxicity
Remarks: Active substance dissolved in acetone

LD50 (*Apis mellifera* (bees)): > 0,005 µg/bee
Exposure time: 48 h
End point: Acute contact toxicity
Remarks: Active substance dissolved in water

LD50 (*Apis mellifera* (bees)): > 104,1 µg/bee
Exposure time: 48 h
End point: Acute oral toxicity
Remarks: Active substance dissolved in acetone

LD50 (*Apis mellifera* (bees)): > 0,0274 µg/bee
Exposure time: 48 h
End point: Acute oral toxicity
Remarks: Active substance dissolved in water

LD50 (*Poephila guttata* (zebra finch)): > 2.250 mg/kg

Persistence and degradability

Components:

(+/-)-tartaric acid:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 85 %
Exposure time: 28 d
Method: OECD Test Guideline 306
Remarks: Based on data from similar materials

sodium carbonate:

Biodegradability : Remarks: The methods for determining biodegradability are not applicable to inorganic substances.

Chlorantraniliprole:

Biodegradability : Result: Not readily biodegradable.

Stability in water : Degradation half life (DT50): 10 d (25 °C) pH: 9
Degradation half life (DT50): 0,3 d (50 °C) pH: 9

Bioaccumulative potential

Components:

sodium carbonate:

Bioaccumulation : Remarks: Does not bioaccumulate.

SAFETY DATA SHEET



Rynaxypyr® 5% DT

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11.07.2023	50002761	Date of first issue: 11.07.2023

Talc ($\text{Mg}_3\text{H}_2(\text{SiO}_3)_4$):

Bioaccumulation : Bioconcentration factor (BCF): 3,16
Method: QSAR

Partition coefficient: n-octanol/water : log Pow: -9,4 (25 °C)
pH: 7
Method: QSAR

Chlorantraniliprole:

Bioaccumulation : Species: *Lepomis macrochirus* (Bluegill sunfish)
Bioconcentration factor (BCF): 14
Method: OECD Test Guideline 305
GLP: yes
Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: 2,77 (20 °C)
pH: 4

log Pow: 2,86 (20 °C)
pH: 7

log Pow: 2,80 (20 °C)
pH: 9

Mobility in soil

Components:

Chlorantraniliprole:

Distribution among environmental compartments : Koc: 362 ml/g, log Koc: 2,55
Remarks: Mobile in soils

Stability in soil : Remarks: Very persistent in soil.

Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

Components:

Chlorantraniliprole:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

SAFETY DATA SHEET



Rynaxypyr® 5% DT

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11.07.2023	50002761	Date of first issue: 11.07.2023

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 chemical or used container.
Send to a licensed waste management company.
- Contaminated packaging : It is prohibited to reuse, bury, burn or sell packaging.
- Washable packaging: Triple wash packs of less than 20 liters and pressure wash packs of 20 liters or more. Triple Wash (Manual Wash): Completely empty the contents of the package into the sprayer tank, keeping it in an upright position for 30 seconds; Add clean water to the package up to ¼ of its volume; Cover the package well and shake it for 30 seconds; Pour the wash water into the spray tank; Do this operation three times; Make the plastic or metal packaging unusable by perforating the bottom.
- Pressure wash: Fit the empty package in the appropriate place of the funnel installed on the sprayer; Activate the mechanism to release the water jet; Direct the water jet to all the inside walls of the package, for 30 seconds; Wash water must be transferred to the sprayer tank; Make the plastic or metal packaging unusable by perforating the bottom. In both procedures, puncture the container at its base without damaging the label. Within a period of up to one year from the date of purchase, the user must return the empty packaging, with lid, to the establishment where the product was purchased or to the place indicated on the invoice, issued at the time of purchase. Activate the mechanism to release the water jet. Direct the water jet to all the inside walls of the package, for 30 seconds. Wash water must be transferred to the sprayer tank. Make the plastic or metal packaging unusable by perforating the bottom.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

- UN number : UN 3077
- Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(Chlorantraniliprole)
- Class : 9
- Subsidiary risk : ENVIRONM.
- Packing group : III
- Labels : 9 (ENVIRONM.)

SAFETY DATA SHEET



Rynaxypyr® 5% DT

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11.07.2023	50002761	Date of first issue: 11.07.2023

IATA-DGR

UN/ID No.	: UN 3077
Proper shipping name	: Environmentally hazardous substance, solid, n.o.s. (Chlorantraniliprole)
Class	: 9
Packing group	: III
Labels	: Miscellaneous
Packing instruction (cargo aircraft)	: 956
Packing instruction (passenger aircraft)	: 956
Environmentally hazardous	: yes

IMDG-Code

UN number	: UN 3077
Proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Chlorantraniliprole)
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

ANTT

UN number	: UN 3077
Proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Chlorantraniliprole)
Class	: 9
Packing group	: III
Labels	: 9
Hazard Identification Number	: 90

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

Safety, health and environmental regulations/legislation specific for the substance or mixture

Law No. 7802 of July 11, 1989. Decree No. 4074 of January 4, 2002 and its regulatory rules. ANTT Resolution nº 5.998/22 of November 3, 2022. This FISPQ was prepared in accordance with the criteria of ABNT NBR 14725. It is recommended that the user pay attention to local regulations

SAFETY DATA SHEET



Rynaxypyr® 5% DT

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11.07.2023	50002761	Date of first issue: 11.07.2023

Law No. 7802 of July 11, 1989. Decree No. 4074 of January 4, 2002 and its regulatory rules.
ANTT Resolution nº 5.998/22 of November 3, 2022. This FISPQ was prepared in accordance with
the criteria of ABNT NBR 14725. It is recommended that the user pay attention to local
regulations

National List of Carcinogenic Agents for Humans - (LINACH)

Group 2B: Possibly carcinogenic to humans

Talc ($\text{Mg}_3\text{H}_2(\text{SiO}_3)_4$) 14807-96-6

Brazil. List of chemicals controlled by the Federal : sodium hydrogencarbonate
Police sodium carbonate

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. 3-BROMO-4'-CHLORO-1-(3-CHLORO-2-PYRIDYL)-2'- METHYL-6'-(METHYLCARBAMOYL)-1H-PYRAZOLE-5- CARBOXANILIDE polymeric surfactant
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

SECTION 16. OTHER INFORMATION

Revision Date	: 11.07.2023
Date format	: dd.mm.yyyy

SAFETY DATA SHEET



Rynaxypyr® 5% DT

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11.07.2023	50002761	Date of first issue: 11.07.2023

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
BR OEL : Brazil. NR 15 - Unhealthy activities and operations

ACGIH / TWA : 8-hour, time-weighted average
BR OEL / LT : Up to 48 hours /week

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 Temperature; 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

FMC Corporation believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. You can contact FMC Corporation to insure that this document is the most current available from FMC Corporation. No warranty of fitness for any particular purpose, warranty of merchantability or any other warranty, expressed or implied, is made concerning the information provided herein. The information provided herein relates only to the specified product designated and may not be applicable where such product is used in combination with any other materials or in any process. The user is responsible for determining whether the product is fit for a particular purpose and suitable for the user's conditions and methods of use. Since the conditions and methods of use are beyond the control of FMC Corporation, FMC Corporation expressly disclaims any and all liability as to any results obtained or arising from any use of the products or reliance on such information.

SAFETY DATA SHEET



Rynaxypyr® 5% DT

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11.07.2023	50002761	Date of first issue: 11.07.2023

BR / EN