

# MATERIAL SAFETY DATA SHEET



## ALLY® XP

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	09.07.2024	50001047	Date of first issue: 09.07.2024

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### 1. IDENTIFICATION

Product name : ALLY® XP

#### Manufacturer or supplier's details

Company : FMC LATINOAMÉRICA S.A.

Address : AV. RODRIGO DE CHÁVEZ Y JUAN TANCA  
CIUDAD COLÓN. TORRE EMPRESARIAL 2  
OFICINA 308. GUAYAQUIL - ECUADOR  
(593 04) 3901953

E-mail address : SDS-Info@fmc.com

Emergency telephone : 1 703 / 741-5970 (CHEMTREC - International)

Medical Emergency Number : Desde Ecuador: 1800 593005 (Quito, La Sierra, Centro y Norte).  
Desde Bogotá: 288 60 12; Línea Nacional: 01 8000 916012  
Desde Venezuela: 0800 1005012  
Desde Perú: SAMU: 106;  
CISPROQUIM®: 080-050-847;  
FMC LATINOAMERICA S.A. SUCURSAL: 421-4811;

#### Recommended use of the chemical and restrictions on use

Recommended use : Can be used as herbicide only.

Restrictions on use : Use as recommended by the label.

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### 2. HAZARDS IDENTIFICATION

#### GHS Classification

Acute toxicity (Oral) : Category 4

Acute toxicity (Dermal) : Category 4

Short-term (acute) aquatic hazard : Category 1

Long-term (chronic) aquatic hazard : Category 1

#### GHS label elements

# MATERIAL SAFETY DATA SHEET



## ALLY® XP

Version 1.0      Revision Date: 09.07.2024      SDS Number: 50001047      Date of last issue: -  
Date of first issue: 09.07.2024

Hazard pictograms

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Signal Word

: WARNING

Hazard Statements

: H302 + H312 Harmful if swallowed or in contact with skin.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements

: **Prevention:**  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing.  
**Response:**  
P301 + P317 + P330 IF SWALLOWED: Get medical help.  
Rinse mouth.  
P302 + P352 + P317 IF ON SKIN: Wash with plenty of water.  
Get medical help.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
P391 Collect spillage.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

### Other hazards which do not result in classification

Hazard Statements required by Andean Technical Manual for the Registration and Control of Chemical Pesticides for Agricultural Use (Resolution no. 2075):  
Harmful if swallowed.  
Harmful in contact with skin.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Components

Chemical name	CAS-No.	Concentration (% w/w)
Metsulfuron-methyl	74223-64-6	$\geq 50$ - $< 70$
Residues, petroleum, catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts	68425-94-5	$\geq 2,5$ - $< 10$
sucrose	57-50-1	$\geq 1$ - $< 10$
trisodium orthophosphate	7601-54-9	$\geq 1$ - $< 2,5$

## 4. FIRST AID MEASURES

General advice : Move out of dangerous area.

# MATERIAL SAFETY DATA SHEET



## ALLY® XP

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	09.07.2024	50001047	Date of first issue: 09.07.2024

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 : Wash off with soap and water.  
If symptoms persist, call a physician.  
Wash contaminated clothing before re-use.

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 : Do not induce vomiting without medical advice.  
Keep respiratory tract clear.  
Never give anything by mouth to an unconscious person.  
Do not give milk or alcoholic beverages.  
If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed : Harmful if swallowed or in contact with skin.

Protection of first-aiders : Avoid inhalation, ingestion and contact with skin and eyes.

Notes to physician : Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

#### Flammable properties

Flash point : Not applicable  
Ignition temperature : No data available

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Flammability (solid, gas) : The product is not flammable.

Suitable extinguishing media : Dry chemical, CO<sub>2</sub>, 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.

# MATERIAL SAFETY DATA SHEET



## ALLY® XP

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	09.07.2024	50001047	Date of first issue: 09.07.2024

- Hazardous combustion products : Fire may produce irritating, corrosive and/or toxic gases.  
Nitrogen oxides (NOx)  
Sulfur oxides  
Carbon oxides  
Hydrogen cyanide
- Specific extinguishing methods : Use a water spray to cool fully closed containers.  
Remove undamaged containers from fire area if it is safe to do 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.

### 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : If it can be safely done, stop the leak.  
Do not touch or walk through the spilled material.  
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.

### 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Provide appropriate exhaust ventilation at places where dust is formed.
- Advice on safe handling : Avoid formation of respirable particles.

# MATERIAL SAFETY DATA SHEET



## ALLY® XP

Version 1.0      Revision Date: 09.07.2024      SDS Number: 50001047      Date of last issue: -  
Date of first issue: 09.07.2024

Do not breathe vapors/dust.  
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.

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.

Materials to avoid : Do not store near acids.

Further information on storage stability : No decomposition if stored and applied as directed.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
sucrose	57-50-1	TWA	10 mg/m <sup>3</sup>	ACGIH

#### Personal protective equipment

Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.

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 instructions.  
Ensure that eye flushing systems and safety showers are

# MATERIAL SAFETY DATA SHEET



## ALLY® XP

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	09.07.2024	50001047	Date of first issue: 09.07.2024

---

located close to the working place.  
Wear suitable protective equipment.

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.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: solid
Form	: granular
Color	: light brown
Odor	: odorless
Odor Threshold	: No data available
pH	: ca. 4,6
Melting point/range	: No data available
Boiling point/boiling range	: Decomposition: yes
Flash point	: Not applicable
Evaporation rate	: Not applicable
Flammability (solid, gas)	: The product is not flammable.
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	: Not applicable
Relative vapor density	: Not applicable
Relative density	: 1,47 (25 °C)

# MATERIAL SAFETY DATA SHEET



## ALLY® XP

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	09.07.2024	50001047	Date of first issue: 09.07.2024

Density	:	No data available
Solubility(ies)	:	
Water solubility	:	dispersible
Solubility in other solvents	:	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
Explosive properties	:	Not explosive
Oxidizing properties	:	Non-oxidizing
Surface tension	:	Not applicable
Molecular weight	:	Not applicable

### 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	:	Dust may form explosive mixture in air. No decomposition if stored and applied as directed.
Conditions to avoid	:	Avoid extreme temperatures. Avoid dust formation.
Incompatible materials	:	Avoid strong acids, bases, and oxidizers.
Hazardous decomposition products	:	No decomposition if stored and applied as directed.

### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Harmful if swallowed or in contact with skin.

#### Product:

# MATERIAL SAFETY DATA SHEET



## ALLY® XP

Version 1.0	Revision Date: 09.07.2024	SDS Number: 50001047	Date of last issue: - Date of first issue: 09.07.2024
----------------	------------------------------	-------------------------	--

- Acute oral toxicity : LD50(Rat): > 5.000 mg/kg  
Method: OECD Test Guideline 401  
Assessment: The substance or mixture has no acute oral toxicity  
  
Assessment: The component/mixture is moderately toxic after single ingestion.  
Remarks: Resolution no. 2075
- Acute inhalation toxicity : Acute toxicity estimate: > 5 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: Calculation method  
Remarks: Inhalation is not expected to be a relevant route of exposure.
- Acute dermal toxicity : LD50(Rat): > 5.000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes  
Assessment: The substance or mixture has no acute dermal toxicity  
  
Assessment: The component/mixture is moderately toxic after single contact with skin.  
Remarks: Resolution no. 2075

### Components:

#### **Metsulfuron-methyl:**

- Acute oral toxicity : LD50 (Rat, male and female): > 5.000 mg/kg  
Method: US EPA Test Guideline OPP 81-1  
Assessment: The substance or mixture has no acute oral toxicity  
  
LD50 (Rat, female): > 5.000 mg/kg  
Method: OECD Test Guideline 425  
GLP: yes  
Assessment: The substance or mixture has no acute oral toxicity  
Remarks: no mortality
- Acute inhalation toxicity : LC50 (Rat, male and female): > 5,11 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Symptoms: Breathing difficulties  
GLP: yes  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: no mortality
- Acute dermal toxicity : LD50 (Rabbit, male and female): > 5.000 mg/kg  
Method: OECD Test Guideline 402  
Symptoms: Irritation



# MATERIAL SAFETY DATA SHEET



## ALLY® XP

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	09.07.2024	50001047	Date of first issue: 09.07.2024

GLP: yes  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: no mortality

### **Residues, petroleum, catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts:**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

### **sucrose:**

Acute oral toxicity : LD50 (Rat): 29.700 mg/kg

### **trisodium orthophosphate:**

Acute oral toxicity : LD50 (Rat, female): > 2.000 mg/kg  
Method: OECD Test Guideline 420

Acute inhalation toxicity : LC0 (Rat, male and female): > 0,83 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Remarks: Based on data from similar materials  
no mortality

Acute dermal toxicity : LD50 (Rat, male and female): > 2.000 mg/kg  
Method: OECD Test Guideline 402

### **Skin corrosion/irritation**

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

### **Product:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation  
GLP : yes

### **Components:**

#### **Metsulfuron-methyl:**

Species : Rabbit  
Assessment : Not classified as irritant

Method : US EPA Test Guideline OPP 81-5  
Result : No skin irritation

### **Residues, petroleum, catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts:**

Remarks : No data available

### **trisodium orthophosphate:**

# MATERIAL SAFETY DATA SHEET



## ALLY® XP

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	09.07.2024	50001047	Date of first issue: 09.07.2024

---

Species : Rabbit  
Result : Skin irritation

### Serious eye damage/eye irritation

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

#### Product:

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

#### Components:

##### Metsulfuron-methyl:

Species : Rabbit  
Assessment : Not classified as irritant  
Method : EPA OPP 81-4  
Result : slight irritation

##### Residues, petroleum, catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts:

Result : Eye irritation

##### trisodium orthophosphate:

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

### Respiratory or skin sensitization

#### Skin sensitization

Not classified due to lack of data.

#### Respiratory sensitization

Not classified due to lack of data.

#### Product:

Test Type : Buehler Test  
Species : Guinea pig  
Method : US EPA Test Guideline OPPTS 870.2600  
Result : Animal test did not cause sensitization by skin contact.  
GLP : yes

#### Components:

##### Metsulfuron-methyl:

Test Type : Maximization Test  
Routes of exposure : Skin contact  
Species : Guinea pig  
Method : US EPA Test Guideline OPPTS 870.2600  
Result : Not a skin sensitizer.

# MATERIAL SAFETY DATA SHEET



## ALLY® XP

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	09.07.2024	50001047	Date of first issue: 09.07.2024

---

### trisodium orthophosphate:

Test Type	: Local lymph node assay (LLNA)
Species	: Mouse
Method	: OECD Test Guideline 429
Result	: Not a skin sensitizer.

### Germ cell mutagenicity

Not classified due to lack of data.

### Components:

#### Metsulfuron-methyl:

Genotoxicity in vitro	: Test Type: Ames test Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative GLP: yes
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	: Test Type: Chromosome aberration test in vitro Metabolic activation: Metabolic activation Result: positive GLP: yes
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Genotoxicity in vivo	: Test Type: Micronucleus test Species: Mouse Result: negative
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### trisodium orthophosphate:

Genotoxicity in vitro	: Test Type: Micronucleus test Test system: Human lymphocytes Method: OECD Test Guideline 487 Result: negative
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	: Test Type: gene mutation test Test system: mouse lymphoma cells Method: OECD Test Guideline 490 Result: negative
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Germ cell mutagenicity - Assessment	: In vitro tests did not show mutagenic effects
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### Carcinogenicity

Not classified due to lack of data.

### Components:

#### Metsulfuron-methyl:

Species	: Rat, male and female
Exposure time	: 104 weeks
NOAEL	: 500 ppm
Result	: negative

# MATERIAL SAFETY DATA SHEET



## ALLY® XP

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	09.07.2024	50001047	Date of first issue: 09.07.2024

---

Species : Mouse, male and female  
Exposure time : 18 month(s)  
NOAEL : 5.000 ppm  
Result : negative

### **trisodium orthophosphate:**

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

### **Reproductive toxicity**

Not classified due to lack of data.

### **Components:**

#### **Metsulfuron-methyl:**

Effects on fertility : Test Type: Two-generation study  
Species: Rat, male and female  
Application Route: Oral  
Result: negative

Effects on fetal development : Test Type: Embryo-fetal development  
Species: Rabbit, female  
Application Route: Ingestion  
Symptoms: Maternal effects.  
Result: negative

Test Type: Embryo-fetal development  
Species: Rat, female  
Application Route: Ingestion  
Symptoms: Maternal effects.  
Result: negative

### **trisodium orthophosphate:**

Effects on fertility : Species: Rat, male and female  
Application Route: Oral  
Dose: 1000 mg/kg bw  
General Toxicity Parent: NOAEL: 1.000 mg/kg body weight  
Fertility: NOAEL: 1.000 mg/kg body weight  
Method: OECD Test Guideline 422  
Result: negative  
Remarks: Based on data from similar materials

Effects on fetal development : Species: Rat  
Application Route: Oral  
Duration of Single Treatment: 20 d  
General Toxicity Maternal: NOAEL: > 410 mg/kg body weight  
Result: negative  
Remarks: Based on data from similar materials

Species: Rat, male and female  
Application Route: Oral

# MATERIAL SAFETY DATA SHEET



## ALLY® XP

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	09.07.2024	50001047	Date of first issue: 09.07.2024

---

Dose: 1000 mg/kg bw/day  
Duration of Single Treatment: 30 d  
Developmental Toxicity: NOAEL: 1.000 mg/kg body weight  
Method: OECD Test Guideline 422  
Result: negative  
Remarks: Based on data from similar materials

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

### STOT-single exposure

Not classified due to lack of data.

#### Components:

##### trisodium orthophosphate:

Assessment : May cause respiratory irritation.

### STOT-repeated exposure

Not classified due to lack of data.

#### Components:

##### trisodium orthophosphate:

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

### Repeated dose toxicity

#### Components:

##### Metsulfuron-methyl:

Species : Rat, male and female  
NOEL : 1000 ppm  
Application Route : Oral - feed  
Exposure time : 90 days  
Symptoms : Reduced body weight

##### trisodium orthophosphate:

Species : Dog, male  
NOAEL : 323 mg/kg  
LOAEL : 1.107 mg/kg  
Application Route : Oral  
Exposure time : 90 d  
Dose : 94, 323, 1107 mg/kg bw/day  
Remarks : Based on data from similar materials

Species : Dog, female  
NOAEL : 493 mg/kg  
LOAEL : 1.434 mg/kg  
Application Route : Oral  
Exposure time : 90 d

# MATERIAL SAFETY DATA SHEET



## ALLY® XP

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	09.07.2024	50001047	Date of first issue: 09.07.2024

---

Dose : 129, 493, 1434 mg/kg bw/day  
Remarks : Based on data from similar materials

### Aspiration toxicity

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

#### Product:

No aspiration toxicity classification

### Neurological effects

#### Components:

##### Metsulfuron-methyl:

No neurotoxicity observed in animal studies.

#### Further information

#### Product:

Remarks : No data available

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## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Components:

##### Metsulfuron-methyl:

Toxicity to fish : LC50 (Poecilia reticulata (guppy)): > 100 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 120 mg/l  
aquatic invertebrates Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202

EC50 (Daphnia magna (Water flea)): 43,1 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202  
GLP: yes

Toxicity to algae/aquatic : ErC50 ( Anabaena flos-aquae (cyanobacterium)): 65,7 µg/l  
plants Exposure time: 96 h  
Method: OPPTS 850.5400  
GLP: yes

NOEC ( Anabaena flos-aquae (cyanobacterium)): 45 µg/l  
Exposure time: 96 h  
Method: OPPTS 850.5400  
GLP: yes

# MATERIAL SAFETY DATA SHEET



## ALLY® XP

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	09.07.2024	50001047	Date of first issue: 09.07.2024

---

ErC50 ( Selenastrum capricornutum (green algae)): 157 µg/l  
Exposure time: 72 h  
GLP: yes

NOEC ( Selenastrum capricornutum (green algae)): 50 µg/l  
Exposure time: 72 h  
GLP: yes

M-Factor (Acute aquatic toxicity) : 10

Toxicity to fish (Chronic toxicity) : NOEC: 68 mg/l  
Exposure time: 21 d  
Species: Oncorhynchus mykiss (rainbow trout)

NOEC: 10 mg/l  
End point: reproduction  
Exposure time: 21 d  
Species: Pimephales promelas (fathead minnow)  
Method: OECD Test Guideline 229  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 3,13 mg/l  
End point: reproduction  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: semi-static test  
Method: OECD Test Guideline 211

NOEC: 0,5 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)

M-Factor (Chronic aquatic toxicity) : 1

Toxicity to soil dwelling organisms : NOEC: 6 mg/kg  
Exposure time: 56 d  
Species: Eisenia fetida (earthworms)

NOEC: 5,6 mg/kg  
End point: reproduction  
Species: Eisenia fetida (earthworms)  
Method: OECD Test Guideline 222  
GLP: yes

Method: OECD Test Guideline 216  
Remarks: No significant adverse effect on Nitrogen mineralization.

Toxicity to terrestrial organisms : LD50: > 50 µg/bee  
Exposure time: 48 h  
End point: Acute contact toxicity

# MATERIAL SAFETY DATA SHEET



## ALLY® XP

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	09.07.2024	50001047	Date of first issue: 09.07.2024

Species: *Apis mellifera* (bees)  
Method: OEPP/EPPO Test Guideline 170

LD50: > 50 µg/bee  
Exposure time: 48 h  
End point: Acute oral toxicity  
Species: *Apis mellifera* (bees)  
Method: OEPP/EPPO Test Guideline 170

LD50: > 2.510 mg/kg  
Species: *Anas platyrhynchos* (Mallard duck)

NOEC: 1.000 mg/kg  
End point: Reproduction Test  
Species: *Colinus virginianus*

NOEC: 1.000 ppm  
End point: Reproduction Test  
Species: *Anas platyrhynchos* (Mallard duck)  
Method: OECD Test Guideline 206

### Residues, petroleum, catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts:

Toxicity to fish : LC50 (Zebra fish): > 10 - 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : EC50 ( *Pseudokirchneriella subcapitata* (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

EC10 ( *Pseudokirchneriella subcapitata* (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC10: > 10 - 100 mg/l  
Exposure time: 21 d  
Species: *Daphnia magna* (Water flea)  
Method: OECD Test Guideline 211  
Remarks: Based on data from similar materials

### sucrose:

Toxicity to fish : Remarks: No data available



# MATERIAL SAFETY DATA SHEET



## ALLY® XP

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	09.07.2024	50001047	Date of first issue: 09.07.2024

---

### trisodium orthophosphate:

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202
- Toxicity to algae/aquatic plants : EC50 ( Desmodesmus subspicatus (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials
- NOEC ( Desmodesmus subspicatus (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials
- Toxicity to microorganisms : EC50 (activated sludge): > 1.000 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209

### Persistence and degradability

#### Components:

##### **Metsulfuron-methyl:**

- Biodegradability : Result: Not readily biodegradable.  
Remarks: Primary degradation half-lives vary with circumstances, from a few weeks to a few months in aerobic soil and water.

##### **Residues, petroleum, catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts:**

- Biodegradability : Result: Not readily biodegradable.  
Remarks: Based on data from similar materials

##### **sucrose:**

- Biodegradability : Remarks: No data available

### Bioaccumulative potential

#### Components:

##### **Metsulfuron-methyl:**

- Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)  
Exposure time: 28 d

# MATERIAL SAFETY DATA SHEET



## ALLY® XP

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	09.07.2024	50001047	Date of first issue: 09.07.2024

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Bioconcentration factor (BCF): < 1  
Remarks: Does not bioaccumulate.

Partition coefficient: n-octanol/water : Pow: 0,018 (25 °C)  
log Pow: -1,7 (25 °C)  
pH: 7

### Mobility in soil

No data available

### Other adverse effects

#### Product:

Additional ecological information : Environmental hazards  
Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark.  
Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate.  
  
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Very toxic to aquatic life with long lasting effects.

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## 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 containers. Rinsable containers: Triple rinse containers of less than 20 liters and pressure rinse containers of 20 liters or more. Triple rinsing: Add water up to ¼ of the container's capacity, close and shake for 30 seconds. Pour the rinse water into the mixing tank, considering this volume of water within the recommended volume for mixing preparation. Perform this procedure three times. Pressure rinsing: Activate the pressure rinsing device for 30 seconds, considering the volume of water used as part of the recommended volume for mixing preparation. In both procedures, punctured the container on its base without damaging the label. In all cases, take the empty containers to collection points indicated by the local empty containers program.

# MATERIAL SAFETY DATA SHEET



## ALLY® XP

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	09.07.2024	50001047	Date of first issue: 09.07.2024

### 14. TRANSPORT INFORMATION

#### International Regulations

##### UNRTDG

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

##### IATA-DGR

UN/ID No.	: UN 3077
Proper shipping name	: Environmentally hazardous substance, solid, n.o.s. (Metsulfuron-methyl)
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. (Metsulfuron-methyl)
Class	: 9
Packing group	: III
Labels	: 9
EmS Code	: F-A, S-F
Marine pollutant	: yes

#### Transport in bulk according to IMO instruments

Not applicable for product as supplied.

#### 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.

### 15. REGULATORY INFORMATION

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

Organic Law on Integral Prevention of Social and Economic Phenomenon of Drugs and of Regulation and	: Not applicable
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# MATERIAL SAFETY DATA SHEET



## ALLY® XP

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	09.07.2024	50001047	Date of first issue: 09.07.2024

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Use Control of Listed Substances subject to Monitoring

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

TCSI	: On the inventory, or 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.  Metsulfuron-methyl
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	: On the inventory, or in compliance with the inventory
NZIoC	: Not in compliance with the inventory
TECI	: Not in compliance with the inventory

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### 16. OTHER INFORMATION

Revision Date	: 09.07.2024
Date format	: dd.mm.yyyy

**Full text of other abbreviations**

ACGIH	: USA. ACGIH Threshold Limit Values (TLV)
ACGIH / TWA	: 8-hour, time-weighted average

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 Chemi-

# MATERIAL SAFETY DATA SHEET



## ALLY® XP

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	09.07.2024	50001047	Date of first issue: 09.07.2024

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cal 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

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