

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALLY® EXPRESS

Version	Revision Date:	SDS Number:	Date of last issue: -
5.1	17.12.2024	50000049	Date of first issue: 01.03.2020

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

**Product name** ALLY® EXPRESS

#### Other means of identification

**Product code** 50000049

**Unique Formula Identifier (UFI)** : W72X-U28T-KN4G-MYFC

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Use of the Substance/Mixture** : Herbicide

**Recommended restrictions on use** : Use as recommended by the label.  
For professional users only.

#### 1.3 Details of the supplier of the safety data sheet

#### Supplier Address

FMC Agricultural Solutions A/S  
Thyborønvej 78  
DK-7673 Harbøre  
Denmark

Telephone: +45 9690 9690  
Telefax: +45 9690 9691  
E-mail address: SDS-Info@fmc.com .

#### 1.4 Emergency telephone number

For leak, fire, spill or accident emergencies, call:  
Ireland: 353-19014670 (CHEMTREC)

Medical emergency:  
Ireland (Republic): +352 1 809 2166

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008)**

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALLY® EXPRESS

Version 5.1	Revision Date: 17.12.2024	SDS Number: 50000049	Date of last issue: - Date of first issue: 01.03.2020
----------------	------------------------------	-------------------------	--

Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Short-term (acute) aquatic hazard, Category 1	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, Category 1	H410: Very toxic to aquatic life with long lasting effects.

### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning

Hazard statements :  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
**Response:**  
P302 + P352 IF ON SKIN: Wash with plenty of water and soap.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P391 Collect spillage.  
**Disposal:**  
P501 Dispose of contents/container as hazardous waste in accordance with local regulations.

#### Hazardous components which must be listed on the label:

2,4,7,9-tetramethyldec-5-yne-4,7-diol

#### Additional Labelling

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

For special phrases (SP) and safety intervals, consult the label.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALLY® EXPRESS

Version 5.1      Revision Date: 17.12.2024      SDS Number: 50000049      Date of last issue: -  
Date of first issue: 01.03.2020

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
carfentrazone-ethyl (ISO)	128639-02-1 607-309-00-5	Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	>= 30 - <= 50
metsulfuron-methyl (ISO)	74223-64-6 613-139-00-2	Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 1,000 M-Factor (Chronic aquatic toxicity): 1,000	>= 2.5 - <= 10
edetic acid	60-00-4 200-449-4 607-429-00-8	Acute Tox. 4; H332 Eye Irrit. 2; H319 STOT RE 2; H373 (Respiratory Tract)	>= 1 - <= 10
2,4,7,9-tetramethyldec-5-yne-4,7-diol	126-86-3 204-809-1	Eye Dam. 1; H318 Skin Sens. 1B; H317 Aquatic Chronic 3;	>= 1 - <= 2.5

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALLY® EXPRESS

Version 5.1      Revision Date: 17.12.2024      SDS Number: 50000049      Date of last issue: -  
Date of first issue: 01.03.2020

		H412	
Substances with a workplace exposure limit :			
kaolin	1332-58-7 310-194-1		$\geq 1 - < 10$

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : Do not leave the victim unattended.  
Show this safety data sheet to the doctor in attendance.  
Move out of dangerous area.
- Protection of first-aiders : Avoid inhalation, ingestion and contact with skin and eyes.
- If inhaled : Remove to fresh air.  
If unconscious, place in recovery position and seek medical advice.  
If experiencing any discomfort, immediately remove from exposure. Light cases: Keep person under surveillance. Get medical attention immediately if symptoms develop. Serious cases: Get medical attention immediately or call for an ambulance.
- In case of skin contact : If on clothes, remove clothes.  
If on skin, rinse well with water.  
Wash off with soap and plenty of water.  
Get medical attention immediately if irritation develops and persists.
- In case of eye contact : Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
Keep eye wide open while rinsing.  
Protect unharmed eye.  
If eye irritation persists, consult a specialist.
- If swallowed : Do not induce vomiting without medical advice.  
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.  
Take victim immediately to hospital.

#### 4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : Irritation  
Allergic reactions
- Risks : May cause an allergic skin reaction.  
Causes serious eye irritation.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALLY® EXPRESS

Version	Revision Date:	SDS Number:	Date of last issue: -
5.1	17.12.2024	50000049	Date of first issue: 01.03.2020

### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Dry chemical, CO<sub>2</sub>, water spray or regular foam.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : Do not spread spilled material with high-pressure water streams.  
High volume water jet

### 5.2 Special hazards arising from the substance or mixture

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<sub>x</sub>)  
Carbon oxides  
Chlorine compounds  
Fluorine compounds  
Sulphur oxides

### 5.3 Advice for firefighters

Special protective equipment for firefighters : Firefighters should wear protective clothing and self-contained breathing apparatus.

Specific extinguishing methods : Remove undamaged containers from fire area if it is safe to do so.  
Use a water spray to cool fully closed containers.

Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Standard procedure for chemical fires.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Evacuate personnel to safe areas.  
Do not touch or walk through the spilled material.  
If it can be safely done, stop the leak.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALLY® EXPRESS

Version	Revision Date:	SDS Number:	Date of last issue: -
5.1	17.12.2024	50000049	Date of first issue: 01.03.2020

---

Ensure adequate ventilation.  
Use personal protective equipment.  
Avoid dust formation.  
Avoid breathing dust.  
Never return spills in original containers for re-use.  
Mark the contaminated area with signs and prevent access to unauthorized personnel.  
Only qualified personnel equipped with suitable protective equipment may intervene.

### 6.2 Environmental precautions

Environmental precautions : If the product contaminates rivers and lakes or drains inform respective authorities.  
Prevent further leakage or spillage if safe to do so.  
Prevent product from entering drains.

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Keep in suitable, closed containers for disposal.  
  
Never return spills in original containers for re-use.  
Pick up and transfer to properly labelled containers.  
Collect as much of the spill as possible with a suitable absorbent material.

### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.  
Dispose of rinse water in accordance with local and national regulations.  
Smoking, eating and drinking should be prohibited in the application area.  
For personal protection see section 8.  
Avoid contact with skin and eyes.  
Avoid exposure - obtain special instructions before use.  
Do not breathe vapours/dust.  
Avoid formation of respirable particles.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Provide appropriate exhaust ventilation at places where dust is formed. Avoid dust formation.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALLY® EXPRESS

Version	Revision Date:	SDS Number:	Date of last issue: -
5.1	17.12.2024	50000049	Date of first issue: 01.03.2020

Hygiene measures : Wash hands before breaks and at the end of workday. When using do not smoke. When using do not eat or drink. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

General industrial hygiene practice. Avoid contact with skin, eyes and clothing. Do not inhale aerosol.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Electrical installations / working materials must comply with the technological safety standards. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep container tightly closed in a dry and well-ventilated place.

Further information on storage conditions : The product is stable under normal conditions of warehouse storage. Store in closed, labelled containers. The storage room should be constructed of incombustible material, closed, dry, ventilated and with impermeable floor, without access of unauthorised persons or children. The room should only be used for storage of chemicals. Food, drink, feed and seed should not be present. A hand wash station should be available.

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

### 7.3 Specific end use(s)

Specific use(s) : Registered pesticide to be used in accordance with a label approved by country-specific regulatory authorities.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
silica gel	112926-00-8	OELV - 8 hrs (TWA) (Respirable dust)	2.4 mg/m <sup>3</sup> (Silica)	IE OEL
	Further information: Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit value should be used			
		OELV - 8 hrs (TWA) (inhalable dust)	6 mg/m <sup>3</sup> (Silica)	IE OEL
	Further information: Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit value should be used			

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALLY® EXPRESS

Version 5.1      Revision Date: 17.12.2024      SDS Number: 50000049      Date of last issue: -  
Date of first issue: 01.03.2020

kaolin	1332-58-7	OELV - 8 hrs (TWA) (Respirable dust)	2 mg/m <sup>3</sup>	IE OEL
		TWA (Respirable dust)	0.1 mg/m <sup>3</sup>	2004/37/EC
Further information: Carcinogens or mutagens				

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
silica gel	Workers	Inhalation	Long-term systemic effects	4 mg/m <sup>3</sup>
edetic acid	Workers	Inhalation	Long-term local effects	1.5 mg/m <sup>3</sup>
	Workers	Inhalation	Acute local effects	3 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term local effects	0.600 mg/m <sup>3</sup>
	Consumers	Inhalation	Acute local effects	1.2 mg/m <sup>3</sup>
	Consumers	Oral	Long-term systemic effects	25 mg/kg bw/day
2,4,7,9-tetramethyldec-5-yne-4,7-diol	Workers	Inhalation	Long-term systemic effects	1.76 mg/m <sup>3</sup>
	Workers	Dermal	Long-term systemic effects	0.5 mg/kg
	Consumers	Inhalation	Long-term systemic effects	0.43 mg/m <sup>3</sup>
	Consumers	Dermal	Long-term systemic effects	0.25 mg/kg
	Consumers	Oral	Long-term systemic effects	0.25 mg/kg

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
edetic acid	Fresh water	2.2 mg/l
	Intermittent use/release	1.2 mg/l
	Marine water	0.220 mg/l
	Sewage treatment plant	43 mg/l
	Soil	0.720 mg/kg
2,4,7,9-tetramethyldec-5-yne-4,7-diol	Fresh water	0.04 mg/l
	Marine water	0.004 mg/l
	Fresh water sediment	0.32 mg/kg dry weight (d.w.)
	Marine sediment	0.032 mg/kg dry weight (d.w.)
	Soil	0.028 mg/kg dry weight (d.w.)

## 8.2 Exposure controls

### Personal protective equipment

Eye/face protection : Wear face-shield and protective suit for abnormal processing



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALLY® EXPRESS

Version	Revision Date:	SDS Number:	Date of last issue: -
5.1	17.12.2024	50000049	Date of first issue: 01.03.2020

- problems.  
Tightly fitting safety goggles  
Eye wash bottle with pure water
- 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.
- Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
Dust impervious protective suit
- Respiratory protection : In case of dust exposure wear suitable personal respiratory protection and protective suit.
- Protective measures : Plan first aid action before beginning work with this product.  
Always have on hand a first-aid kit, together with proper instructions.  
Wear suitable protective equipment.  
When using do not eat, drink or smoke.
- In the context of professional plant protection use as recommended, the end user must refer to the label and the instructions for use.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- Physical state : solid  
Form : granules  
Colour : tan  
Odour : mild, aromatic  
Odour Threshold : No data available  
Melting point/ range : No data available  
Boiling point/boiling range : No data available  
Flammability : The product is not flammable.  
Upper explosion limit / Upper flammability limit : No data available  
Lower explosion limit / Lower flammability limit : No data available  
Flash point : Not applicable  
Auto-ignition temperature : No data available  
Decomposition temperature : No data available  
pH : 8.3 (20 °C)  
Concentration: 1 %  
In a 1% aqueous dispersion
- Viscosity  
Viscosity, dynamic : No data available

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALLY® EXPRESS

Version	Revision Date:	SDS Number:	Date of last issue: -
5.1	17.12.2024	50000049	Date of first issue: 01.03.2020

Viscosity, kinematic	:	No data available
Solubility(ies)	:	
Water solubility	:	dispersible
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Vapour pressure	:	No data available
Relative density	:	No data available
Density	:	No data available
Bulk density	:	0.68 g/cm <sup>3</sup>
Relative vapour density	:	No data available
Particle characteristics	:	
Particle size	:	No data available
Particle Size Distribution	:	No data available
Shape	:	No data available

### 9.2 Other information

Explosives	:	Not explosive
Oxidizing properties	:	The product is not oxidizing. Non-oxidizing
Self-ignition	:	No data available
Evaporation rate	:	No data available
Molecular weight	:	Not applicable

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions	:	No decomposition if stored and applied as directed.
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Dust may form explosive mixture in air.

### 10.4 Conditions to avoid

Conditions to avoid	:	Heat, flames and sparks.
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Avoid extreme temperatures  
Avoid dust formation.

### 10.5 Incompatible materials

Materials to avoid	:	Avoid strong acids, bases, and oxidizers
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### 10.6 Hazardous decomposition products

Stable under recommended storage conditions.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALLY® EXPRESS

Version	Revision Date:	SDS Number:	Date of last issue: -
5.1	17.12.2024	50000049	Date of first issue: 01.03.2020

### SECTION 11: Toxicological information

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

##### Acute toxicity

Not classified based on available information.

##### Product:

- |                           |  |
|---------------------------|--|
| Acute oral toxicity       | : LD50 (Rat): > 5,000 mg/kg<br>Method: OECD Test Guideline 401<br>GLP: yes<br>Remarks: (Data on the product itself)<br>Information source: Internal study report                   |
| Acute inhalation toxicity | : LC50 (Rat): > 5.09 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Remarks: (Data on the product itself)<br>Information source: Data provided by an external source. |
| Acute dermal toxicity     | : LD50 (Rat): > 2,000 mg/kg<br>Method: OECD Test Guideline 402<br>GLP: yes<br>Remarks: (Data on the product itself)<br>Information source: Internal study report                   |

##### Components:

##### **carfentrazone-ethyl (ISO):**

- |                           |  |
|---------------------------|--|
| Acute oral toxicity       | : LD50 (Rat, female): 5,143 mg/kg<br>Method: US EPA Test Guideline OPP 81-1<br>Symptoms: Tremors<br>GLP: yes<br><br>LD50 (Rat, female): > 5,000 mg/kg<br>Method: OECD Test Guideline 425<br>GLP: yes<br>Assessment: The substance or mixture has no acute oral toxicity<br>Remarks: no mortality |
| Acute inhalation toxicity | : LC50 (Rat, male and female): > 5.09 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Method: EPA OPP 81 - 3<br>Symptoms: Tremors, chromodacryorrhea, nasal discharge<br>GLP: yes<br>Assessment: The substance or mixture has no acute inhalation toxicity<br>Remarks: no mortality  |
| Acute dermal toxicity     | : LD50 (Rat, male and female): > 4,000 mg/kg   |

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALLY® EXPRESS

Version	Revision Date:	SDS Number:	Date of last issue: -
5.1	17.12.2024	50000049	Date of first issue: 01.03.2020

Method: US EPA Test Guideline OPP 81-2  
GLP: yes  
Assessment: The component/mixture is minimally toxic after single contact with skin.  
Remarks: no mortality

### **metsulfuron-methyl (ISO):**

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

### **edetic acid:**

Acute oral toxicity : LD50 (Rat, male and female): 4,500 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LOAEC (Rat): 0.03 mg/l  
Exposure time: 6 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 412  
Assessment: The component/mixture is moderately toxic after short term inhalation.

### **2,4,7,9-tetramethyldec-5-yne-4,7-diol:**

Acute oral toxicity : LD50 (Rat, male): 12,900 mg/kg

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALLY® EXPRESS

Version	Revision Date:	SDS Number:	Date of last issue: -
5.1	17.12.2024	50000049	Date of first issue: 01.03.2020

Acute inhalation toxicity : LC0 (Rat, male and female): 1,000 mg/l  
Exposure time: 1 h  
Test atmosphere: dust/mist  
Symptoms: Irritation  
Remarks: no mortality

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg  
Method: OECD Test Guideline 402

### **kaolin:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Method: OECD Test Guideline 401

LD50: > 2,000 mg/kg  
Method: OECD Test Guideline 420  
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : LC50: 5.07 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 436

Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg  
  
LD50: > 2,000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

### **Skin corrosion/irritation**

Not classified based on available information.

### **Product:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation  
GLP : yes  
Remarks : (Data on the product itself)  
Information source: Internal study report

### **Components:**

#### **carfentrazone-ethyl (ISO):**

Species : Rabbit  
Assessment : Not classified as irritant  
Method : US EPA Test Guideline OPP 81-5  
Result : slight irritation  
GLP : yes

#### **metsulfuron-methyl (ISO):**

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALLY® EXPRESS

Version	Revision Date:	SDS Number:	Date of last issue: -
5.1	17.12.2024	50000049	Date of first issue: 01.03.2020

Species	:	Rabbit
Assessment	:	Not classified as irritant
Method	:	US EPA Test Guideline OPP 81-5
Result	:	No skin irritation

### edetic acid:

Species	:	Rabbit
Result	:	No skin irritation

### 2,4,7,9-tetramethyldec-5-yne-4,7-diol:

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	slight irritation

### kaolin:

Method	:	OECD Test Guideline 404
Result	:	No skin irritation

### Serious eye damage/eye irritation

Causes serious eye irritation.

### Product:

Species	:	Rabbit
Assessment	:	Irritating to eyes.
Method	:	OECD Test Guideline 405
Result	:	Eye irritation
GLP	:	yes
Remarks	:	Information source: Internal study report (Data on the product itself)

### Components:

#### carfentrazone-ethyl (ISO):

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

#### metsulfuron-methyl (ISO):

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

### edetic acid:

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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALLY® EXPRESS

Version	Revision Date:	SDS Number:	Date of last issue: -
5.1	17.12.2024	50000049	Date of first issue: 01.03.2020

### 2,4,7,9-tetramethyldec-5-yne-4,7-diol:

Species	:	Rabbit
Result	:	Irreversible effects on the eye

### kaolin:

Method	:	OECD Test Guideline 405
Result	:	No eye irritation

### Respiratory or skin sensitisation

#### Skin sensitisation

May cause an allergic skin reaction.

#### Respiratory sensitisation

Not classified based on available information.

### Product:

Test Type	:	Maximisation Test
Species	:	Guinea pig
Assessment	:	May cause sensitisation by skin contact.
Method	:	OECD Test Guideline 406
Result	:	May cause sensitisation by skin contact.
GLP	:	yes
Remarks	:	(Data on the product itself)

Information source: Internal study report

### Components:

#### carfentrazone-ethyl (ISO):

Exposure routes	:	Skin contact
Species	:	Guinea pig
Method	:	US EPA Test Guideline OPP 81-6
Result	:	Does not cause skin sensitisation.
GLP	:	yes

Test Type	:	Local lymph node assay (LLNA)
Species	:	Mouse
Method	:	OECD Test Guideline 429
Result	:	Does not cause skin sensitisation.
GLP	:	yes

#### metsulfuron-methyl (ISO):

Test Type	:	Maximisation Test
Exposure routes	:	Skin contact
Species	:	Guinea pig
Method	:	US EPA Test Guideline OPPTS 870.2600
Result	:	Not a skin sensitizer.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALLY® EXPRESS

Version	Revision Date:	SDS Number:	Date of last issue: -
5.1	17.12.2024	50000049	Date of first issue: 01.03.2020

### edetic acid:

Test Type	: Maximisation Test
Species	: Guinea pig
Method	: OECD Test Guideline 406
Result	: Does not cause skin sensitisation.
Remarks	: Based on data from similar materials

### 2,4,7,9-tetramethyldec-5-yne-4,7-diol:

Test Type	: Local lymph node assay (LLNA)
Exposure routes	: Skin contact
Species	: Mouse
Method	: OECD Test Guideline 429
Result	: Probability or evidence of low to moderate skin sensitisation rate in humans

### kaolin:

Method	: OECD Test Guideline 429
Result	: Does not cause skin sensitisation.

### Germ cell mutagenicity

Not classified based on available information.

### Product:

Germ cell mutagenicity- Assessment	: Contains no ingredient listed as a mutagen
------------------------------------	--

### Components:

#### carfentrazone-ethyl (ISO):

Genotoxicity in vitro	: Test Type: reverse mutation assay 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 Test system: Chinese hamster ovary cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative GLP: yes
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Test Type: Ames test Metabolic activation: with and without metabolic activation Method: U.S. EPA 84-2 Result: negative GLP: yes
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Test Type: Ames test Metabolic activation: with and without metabolic activation
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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALLY® EXPRESS

Version	Revision Date:	SDS Number:	Date of last issue: -
5.1	17.12.2024	50000049	Date of first issue: 01.03.2020

---

		Method: OECD Test Guideline 471 Result: negative GLP: yes
		Test Type: Chromosome aberration test in vitro Test system: Chinese hamster ovary cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: negative GLP: yes
Genotoxicity in vivo	:	Test Type: Micronucleus test Species: Mouse (male and female) Result: negative GLP: yes
		Test Type: unscheduled DNA synthesis assay Species: Rat (male) Result: negative GLP: yes
Germ cell mutagenicity- Assessment	:	No genotoxic potential
<b>metsulfuron-methyl (ISO):</b>		
Genotoxicity in vitro	:	Test Type: Ames test Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative GLP: yes
		Test Type: Chromosome aberration test in vitro Metabolic activation: Metabolic activation Result: positive GLP: yes
Genotoxicity in vivo	:	Test Type: Micronucleus test Species: Mouse Result: negative
<b>edetic acid:</b>		
Genotoxicity in vitro	:	Test Type: reverse mutation assay Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar materials
		Test Type: In vitro mammalian cell gene mutation test Result: negative Remarks: Based on data from similar materials
		Test Type: Chromosome aberration test in vitro Result: negative

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALLY® EXPRESS

Version	Revision Date:	SDS Number:	Date of last issue: -
5.1	17.12.2024	50000049	Date of first issue: 01.03.2020

Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse (male)  
Application Route: Oral  
Method: OECD Test Guideline 474  
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.

### **2,4,7,9-tetramethyldec-5-yne-4,7-diol:**

Genotoxicity in vitro : Test Type: gene mutation test  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative

### **kaolin:**

Genotoxicity in vitro : Test Type: Ames test  
Method: OECD Test Guideline 471  
Result: negative

Genotoxicity in vivo : Remarks: No data available

### **Carcinogenicity**

Not classified based on available information.

### **Product:**

Carcinogenicity - Assessment : Contains no ingredient listed as a carcinogen

### **Components:**

#### **carfentrazone-ethyl (ISO):**

Species : Rat, female  
Application Route : Ingestion  
Exposure time : 2 Years  
NOAEL : 3 mg/kg bw/day  
LOAEL : 12 mg/kg bw/day  
Method : U.S. EPA 83-5  
Result : no increase in tumors observed  
Target Organs : Liver  
GLP : yes

Species : Mouse, female  
Application Route : Ingestion  
Exposure time : 80 weeks  
NOAEL : 10 mg/kg bw/day  
LOAEL : 110 mg/kg bw/day

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALLY® EXPRESS

Version	Revision Date:	SDS Number:	Date of last issue: -
5.1	17.12.2024	50000049	Date of first issue: 01.03.2020

Method	: U.S. EPA 83-5
Result	: no increase in tumors observed
Target Organs	: Liver
GLP	: yes

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

### **metsulfuron-methyl (ISO):**

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

Species	: Mouse, male and female
Exposure time	: 18 month(s)
NOAEL	: 5,000 ppm
Result	: negative

### **edetic acid:**

Species	: Rat, male and female
Application Route	: Oral
Exposure time	: 103 weeks
Dose	: 248, 495 mg/kg body weight
NOAEL	: >= 500 mg/kg bw/day
Result	: negative
Remarks	: Based on data from similar materials

Species	: Mouse, male and female
Application Route	: Oral
Exposure time	: 103 weeks
Dose	: 469, 938 mg/kg body weight
NOAEL	: 938 mg/kg bw/day
Result	: negative
Remarks	: Based on data from similar materials

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

### **Reproductive toxicity**

Not classified based on available information.

### **Product:**

Reproductive toxicity - Assessment	: Contains no ingredient listed as toxic to reproduction
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### **Components:**

### **carfentrazone-ethyl (ISO):**

Effects on fertility	: Test Type: Multi-generation study
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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALLY® EXPRESS

Version	Revision Date:	SDS Number:	Date of last issue: -
5.1	17.12.2024	50000049	Date of first issue: 01.03.2020

Species: Rat, male and female  
Application Route: Ingestion  
Fertility: NOEL: 4,000 ppm  
Result: negative

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rat, female  
Application Route: Oral  
General Toxicity Maternal: NOEL: 100 mg/kg bw/day  
Embryo-foetal toxicity: NOEL: 600 mg/kg bw/day  
Result: negative

Test Type: Embryo-foetal development  
Species: Rabbit, female  
Application Route: Oral  
General Toxicity Maternal: NOEL: 150 mg/kg bw/day  
Embryo-foetal toxicity: NOEL: > 300 mg/kg bw/day  
Result: negative

Reproductive toxicity - Assessment : Animal testing showed no reproductive toxicity.

### **metsulfuron-methyl (ISO):**

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

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

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

### **edetic acid:**

Effects on fertility : Test Type: Multi-generation study  
Species: Rat, male and female  
Application Route: Oral  
Dose: 0, 50, 125, 250 milligram per kilogram  
General Toxicity - Parent: NOAEL:  $\geq$  250 mg/kg body weight  
General Toxicity F1: NOAEL:  $\geq$  250 mg/kg body weight  
General Toxicity F2: NOAEL:  $\geq$  250 mg/kg body weight  
Result: negative  
Remarks: Based on data from similar materials

Effects on foetal development : Species: Rat

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALLY® EXPRESS

Version 5.1	Revision Date: 17.12.2024	SDS Number: 50000049	Date of last issue: - Date of first issue: 01.03.2020
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ment	Application Route: Oral Dose: 967 milligram per kilogram Duration of Single Treatment: 21 d General Toxicity Maternal: LOAEL: $\geq$ 967 mg/kg body weight Teratogenicity: NOAEL: $\geq$ 967 mg/kg body weight Symptoms: Diarrhoea Result: negative
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Reproductive toxicity - Assessment	: Weight of evidence does not support classification for reproductive toxicity
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### **2,4,7,9-tetramethyldec-5-yne-4,7-diol:**

Effects on fertility	: Test Type: reproductive and developmental toxicity study Species: Rat, male and female Result: negative
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Effects on foetal development	: Test Type: reproductive and developmental toxicity study Species: Rat Application Route: Ingestion Result: negative
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### **kaolin:**

Effects on fertility	: Remarks: No data available
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Effects on foetal development	: Remarks: No data available
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### **STOT - single exposure**

Not classified based on available information.

### **Product:**

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

#### **carfentrazone-ethyl (ISO):**

Remarks	: No significant adverse effects were reported
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#### **kaolin:**

Remarks	: No significant adverse effects were reported
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### **STOT - repeated exposure**

Not classified based on available information.

### **Product:**

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

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALLY® EXPRESS

Version	Revision Date:	SDS Number:	Date of last issue: -
5.1	17.12.2024	50000049	Date of first issue: 01.03.2020

### Components:

#### **carfentrazone-ethyl (ISO):**

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

#### **edetic acid:**

Exposure routes : Inhalation  
Target Organs : Respiratory Tract  
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

#### **kaolin:**

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

### **Repeated dose toxicity**

#### Components:

#### **carfentrazone-ethyl (ISO):**

Species : Mouse, male  
NOAEL : 143 mg/kg  
LOAEL : 571 mg/kg  
Application Route : Oral  
Exposure time : 90 days  
Method : EPA 82-1  
GLP : yes  
Target Organs : Blood, Liver

Species : Dog, male and female  
NOEL : 150 mg/kg  
LOAEL : 500 mg/kg  
Application Route : Oral  
Exposure time : 90 days  
Target Organs : Blood

Species : Dog, male and female  
NOEL : 50 mg/kg  
NOAEL : 150 mg/kg  
LOAEL : 500 mg/kg  
Application Route : Oral  
Exposure time : 12 months  
GLP : yes  
Target Organs : Blood

Species : Rat, male  
NOAEL : 58 mg/kg  
Exposure time : 90 d  
Method : EPA 82-1  
GLP : yes

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALLY® EXPRESS

Version	Revision Date:	SDS Number:	Date of last issue: -
5.1	17.12.2024	50000049	Date of first issue: 01.03.2020

---

### **metsulfuron-methyl (ISO):**

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

### **edetic acid:**

Species	: Rat, male and female
NOAEL	: >= 500 mg/kg
Application Route	: Oral
Exposure time	: 103 weeks
Dose	: 250, 500 mg/kg bw/day
Remarks	: Based on data from similar materials

Species	: Mouse, male and female
NOAEL	: >= 500 mg/kg
Application Route	: Oral
Exposure time	: 103 weeks
Dose	: 250, 500 mg/kg bw/day
Remarks	: Based on data from similar materials

Species	: Rat, male and female
NOAEC	: 0.003 mg/l
Application Route	: inhalation (dust/mist/fume)
Exposure time	: 90d
Dose	: 0.5, 3, 15 mg/m3
Method	: OECD Test Guideline 413
Remarks	: Based on data from similar materials

### **2,4,7,9-tetramethyldec-5-yne-4,7-diol:**

Species	: Rat, male and female
NOAEL	: 150 mg/kg
Application Route	: Ingestion
Exposure time	: 30 d
Method	: OECD Test Guideline 408

### **kaolin:**

Remarks	: No data available
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### **Aspiration toxicity**

Not classified based on available information.

### **Product:**

No aspiration toxicity classification

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALLY® EXPRESS

Version	Revision Date:	SDS Number:	Date of last issue: -
5.1	17.12.2024	50000049	Date of first issue: 01.03.2020

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### Components:

#### **carfentrazone-ethyl (ISO):**

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

## 11.2 Information on other hazards

### **Endocrine disrupting properties**

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### **Neurological effects**

#### Components:

#### **carfentrazone-ethyl (ISO):**

No neurotoxicity observed in animal studies

#### **metsulfuron-methyl (ISO):**

No neurotoxicity observed in animal studies

### **Further information**

#### Product:

Remarks : No data available

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 4.3 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
GLP: yes  
Remarks: (Data on the product itself)  
Information source: Internal study report

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
GLP: yes  
Remarks: Information source: Internal study report  
(Data on the product itself)



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALLY® EXPRESS

Version	Revision Date:	SDS Number:	Date of last issue: -
5.1	17.12.2024	50000049	Date of first issue: 01.03.2020

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 0.14 mg/l  
Exposure time: 72 h  
Method: Directive 67/548/EEC, Annex V, C.3.  
GLP: yes  
Remarks: (Data on the product itself)  
Information source: Internal study report

### Components:

#### **carfentrazone-ethyl (ISO):**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 2.55 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Method: OECD Test Guideline 203

LC50 (Menidia beryllina (Silerside)): 1.14 mg/l  
Exposure time: 96 h  
Test Type: flow-through test

LC50 (Oncorhynchus mykiss (rainbow trout)): 1.6 mg/l  
Exposure time: 96 h  
Test Type: flow-through test  
Method: EPA OPP 72-1

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 9.8 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
Remarks: No toxicity at the limit of solubility

Toxicity to algae/aquatic plants : EC50 (Selenastrum capricornutum (green algae)): 0.0133 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
GLP: yes  
  
NOEC (Selenastrum capricornutum (green algae)): 0.00933 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
GLP: yes  
  
EbC50 (Selenastrum capricornutum (green algae)): 16 µg/l  
Exposure time: 120 h  
  
EC50 (Navicula pelliculosa (Diatom)): 12 µg/l  
Exposure time: 72 h  
Test Type: static test  
  
EC50 (Skeletonema costatum (Diatom)): 15 µg/l  
Exposure time: 72 h

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALLY® EXPRESS

Version	Revision Date:	SDS Number:	Date of last issue: -
5.1	17.12.2024	50000049	Date of first issue: 01.03.2020

GLP: yes

M-Factor (Acute aquatic toxicity) : 10

Toxicity to microorganisms : NOEC (activated sludge): 1,000 mg/l  
Test Type: Respiration inhibition  
Method: OECD Test Guideline 209

Toxicity to fish (Chronic toxicity) : NOEC: 22 µg/l  
Exposure time: 89 d  
Species: Oncorhynchus mykiss (rainbow trout)  
Test Type: Early Life-Stage  
Method: OECD Test Guideline 210  
GLP: yes

NOEC: 0.118 mg/l  
Exposure time: 102 d  
Species: Oncorhynchus mykiss (rainbow trout)  
Test Type: flow-through test  
Method: US EPA Test Guideline OPP 72-4

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0.309 mg/l  
End point: Growth  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 202

M-Factor (Chronic aquatic toxicity) : 10

Toxicity to soil dwelling organisms : NOEC: 820 mg/kg  
Species: Eisenia fetida (earthworms)

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

Method: OECD Test Guideline 217  
Remarks: No significant adverse effect on carbon mineralization.

Toxicity to terrestrial organisms : LD50: > 5,620 ppm  
End point: Acute oral toxicity  
Species: Anas platyrhynchos (Mallard duck)  
Remarks: Dietary

LD50: 2,250 mg/kg  
End point: Acute oral toxicity  
Species: Colinus virginianus (Bobwhite quail)

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALLY® EXPRESS

Version	Revision Date:	SDS Number:	Date of last issue: -
5.1	17.12.2024	50000049	Date of first issue: 01.03.2020

NOEL: 1000 ppm  
End point: Reproduction Test  
Species: *Colinus virginianus* (Bobwhite quail)

LD50: > 200 µg/bee  
End point: Acute oral toxicity  
Species: *Apis mellifera* (bees)

LD50: > 200 µg/bee  
End point: Acute contact toxicity  
Species: *Apis mellifera* (bees)

### Ecotoxicology Assessment

Toxicity Data on Soil : Harmful to the soil environment.

#### metsulfuron-methyl (ISO):

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

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): > 120 mg/l  
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 plants : ErC50 (*Anabaena flos-aquae* (cyanobacterium)): 65.7 µg/l  
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

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) : 1,000

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALLY® EXPRESS

Version	Revision Date:	SDS Number:	Date of last issue: -
5.1	17.12.2024	50000049	Date of first issue: 01.03.2020

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)	: 1,000
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 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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALLY® EXPRESS

Version	Revision Date:	SDS Number:	Date of last issue: -
5.1	17.12.2024	50000049	Date of first issue: 01.03.2020

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

### edetic acid:

Toxicity to fish : LC50 (*Oncorhynchus mykiss* (rainbow trout)): > 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)): > 100 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 (*Pseudokirchneriella subcapitata* (algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

NOEC (*Pseudokirchneriella subcapitata* (algae)): 79.4 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

Toxicity to microorganisms : EC10 (activated sludge): > 500 mg/l  
Exposure time: 30 min  
Method: OECD Test Guideline 209  
Remarks: Based on data from similar materials

Toxicity to fish (Chronic toxicity) : NOEC: 35.1 mg/l  
Exposure time: 35 d  
Species: *Danio rerio* (zebra fish)  
Method: OECD Test Guideline 210  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 25 mg/l  
Exposure time: 21 d  
Species: *Daphnia magna* (Water flea)  
Test Type: semi-static test  
Remarks: Based on data from similar materials

Toxicity to soil dwelling or- : EC50: 156.46 mg/kg

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALLY® EXPRESS

Version	Revision Date:	SDS Number:	Date of last issue: -
5.1	17.12.2024	50000049	Date of first issue: 01.03.2020

ganisms  
Exposure time: 14 d  
Species: Eisenia fetida (earthworms)  
Method: OECD Test Guideline 207

### 2,4,7,9-tetramethyldec-5-yne-4,7-diol:

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): 42 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other : LC50 (Daphnia magna (Water flea)): 91 mg/l  
aquatic invertebrates Exposure time: 48 h  
Test Type: Immobilization

Toxicity to microorganisms : EC50 (activated sludge): 680 mg/l  
Exposure time: 3 h  
Test Type: Respiration inhibition

### kaolin:

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 : EC50 (Daphnia magna (Water flea)): > 1,000 mg/l  
aquatic invertebrates Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic : EC50 (Raphidocelis subcapitata (freshwater green alga)): >  
plants 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to microorganisms :  
Remarks: No data available

Toxicity to daphnia and other : Remarks: No data available  
aquatic invertebrates (Chronic toxicity)

## 12.2 Persistence and degradability

### Product:

Biodegradability : Result: Not readily biodegradable.  
Remarks: Estimation based on data obtained on active ingredient.  
Product contains minor amounts of not readily biodegradable components, which may not be degradable in waste water treatment plants.

### Components:

carfentrazone-ethyl (ISO):

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALLY® EXPRESS

Version	Revision Date:	SDS Number:	Date of last issue: -
5.1	17.12.2024	50000049	Date of first issue: 01.03.2020

Biodegradability : Result: Not readily biodegradable.

### **metsulfuron-methyl (ISO):**

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.

### **edetic acid:**

Biodegradability : Result: Inherently biodegradable.

### **2,4,7,9-tetramethyldec-5-yne-4,7-diol:**

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 5 %  
Exposure time: 28 d

### **kaolin:**

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

## 12.3 Bioaccumulative potential

### **Product:**

Bioaccumulation : Remarks: Does not bioaccumulate.  
Estimation based on data obtained on active ingredient.

### **Components:**

#### **carfentrazone-ethyl (ISO):**

Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)  
Exposure time: 28 d  
Bioconcentration factor (BCF): 176  
Method: OECD Test Guideline 305E  
Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: 3.7 (20 °C)

#### **metsulfuron-methyl (ISO):**

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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALLY® EXPRESS

Version	Revision Date:	SDS Number:	Date of last issue: -
5.1	17.12.2024	50000049	Date of first issue: 01.03.2020

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### edetic acid:

Bioaccumulation : Species: *Lepomis macrochirus* (Bluegill sunfish)  
Exposure time: 28 d  
Bioconcentration factor (BCF): 1.8  
Remarks: Based on data from similar materials

Partition coefficient: n-octanol/water : log Pow: 0.13

### 2,4,7,9-tetramethyldec-5-yne-4,7-diol:

Bioaccumulation : Bioconcentration factor (BCF): 24  
Remarks: Substance is not very persistent and very bioaccumulative (vPvB).

Partition coefficient: n-octanol/water : log Pow: 2.8 (22 °C)

### kaolin:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : Remarks: Not applicable

## 12.4 Mobility in soil

### Product:

Distribution among environmental compartments : Remarks: No data is available on the product itself.

### Components:

#### carfentrazone-ethyl (ISO):

Distribution among environmental compartments : Remarks: The substance/mixture and its soil metabolites have a potential for being mobile, but were not detected in a field leaching study.

Koc: 866, log Koc: 2.93

#### kaolin:

Distribution among environmental compartments : Remarks: Low mobility in soil

## 12.5 Results of PBT and vPvB assessment

### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALLY® EXPRESS

Version	Revision Date:	SDS Number:	Date of last issue: -
5.1	17.12.2024	50000049	Date of first issue: 01.03.2020

very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 12.7 Other adverse effects

#### Product:

Additional ecological information : No other ecological effects to be specially mentioned. See product label for additional application instructions relating to environmental precautions.

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

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product	: 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	: Empty remaining contents. Do not re-use empty containers. Packaging that is not properly emptied must be disposed of as the unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal.

## SECTION 14: Transport information

### 14.1 UN number or ID number

ADN	: UN 3077
ADR	: UN 3077
RID	: UN 3077
IMDG	: UN 3077

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALLY® EXPRESS

Version	Revision Date:	SDS Number:	Date of last issue: -
5.1	17.12.2024	50000049	Date of first issue: 01.03.2020

**IATA** : UN 3077

### 14.2 UN proper shipping name

**ADN** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(Carfentrazone-ethyl, Metsulfuron-methyl)

**ADR** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(Carfentrazone-ethyl, Metsulfuron-methyl)

**RID** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(Carfentrazone-ethyl, Metsulfuron-methyl)

**IMDG** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(Carfentrazone-ethyl, Metsulfuron-methyl)

**IATA** : Environmentally hazardous substance, solid, n.o.s.  
(Carfentrazone-ethyl, Metsulfuron-methyl)

### 14.3 Transport hazard class(es)

	Class	Subsidiary risks
<b>ADN</b>	: 9	
<b>ADR</b>	: 9	
<b>RID</b>	: 9	
<b>IMDG</b>	: 9	
<b>IATA</b>	: 9	

### 14.4 Packing group

**ADN**  
Packing group : III  
Classification Code : M7  
Hazard Identification Number : 90  
Labels : 9

**ADR**  
Packing group : III  
Classification Code : M7  
Hazard Identification Number : 90  
Labels : 9  
Tunnel restriction code : (-)

**RID**  
Packing group : III  
Classification Code : M7  
Hazard Identification Number : 90  
Labels : 9

**IMDG**  
Packing group : III

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALLY® EXPRESS

Version	Revision Date:	SDS Number:	Date of last issue: -
5.1	17.12.2024	50000049	Date of first issue: 01.03.2020

Labels	:	9
EmS Code	:	F-A, S-F
<b>IATA (Cargo)</b>		
Packing instruction (cargo aircraft)	:	956
Packing instruction (LQ)	:	Y956
Packing group	:	III
Labels	:	Miscellaneous
<b>IATA (Passenger)</b>		
Packing instruction (passenger aircraft)	:	956
Packing instruction (LQ)	:	Y956
Packing group	:	III
Labels	:	Miscellaneous

### 14.5 Environmental hazards

<b>ADN</b>	
Environmentally hazardous	: yes
<b>ADR</b>	
Environmentally hazardous	: yes
<b>RID</b>	
Environmentally hazardous	: yes
<b>IMDG</b>	
Marine pollutant	: yes
<b>IATA (Passenger)</b>	
Environmentally hazardous	: yes
<b>IATA (Cargo)</b>	
Environmentally hazardous	: yes

### 14.6 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.

### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

## SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Not applicable
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALLY® EXPRESS

Version	Revision Date:	SDS Number:	Date of last issue: -
5.1	17.12.2024	50000049	Date of first issue: 01.03.2020

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Regulation (EC) on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

Regulation (EU) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. E1 ENVIRONMENTAL HAZARDS

### Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

### The components 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.

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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALLY® EXPRESS

Version	Revision Date:	SDS Number:	Date of last issue: -
5.1	17.12.2024	50000049	Date of first issue: 01.03.2020

### 15.2 Chemical safety assessment

A chemical safety assessment is not required for this product (mixture).

## SECTION 16: Other information

### Full text of H-Statements

H317	: May cause an allergic skin reaction.
H318	: Causes serious eye damage.
H319	: Causes serious eye irritation.
H332	: Harmful if inhaled.
H373	: May cause damage to organs through prolonged or repeated exposure if inhaled.
H400	: Very toxic to aquatic life.
H410	: Very toxic to aquatic life with long lasting effects.
H412	: Harmful to aquatic life with long lasting effects.

### Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Eye Dam.	: Serious eye damage
Eye Irrit.	: Eye irritation
Skin Sens.	: Skin sensitisation
STOT RE	: Specific target organ toxicity - repeated exposure
2004/37/EC	: Europe. Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work
IE OEL	: Ireland. List of Chemical Agents and Carcinogens with Occupational Exposure Limit Values - Code of Practice, Schedule 1 and 2
2004/37/EC / TWA	: Long term exposure limit
IE OEL / OELV - 8 hrs (TWA)	: Occupational exposure limit value (8-hour reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; 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; 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 popula-

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according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALLY® EXPRESS

Version	Revision Date:	SDS Number:	Date of last issue: -
5.1	17.12.2024	50000049	Date of first issue: 01.03.2020

tion; 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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECl - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Classification of the mixture:

Skin Sens. 1	H317
Eye Irrit. 2	H319
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

#### Classification procedure:

Based on product data or assessment
Based on product data or assessment
Based on product data or assessment
Calculation method

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