

# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 and 453/2010



## **COLLAGE®**

Version 2.0

Revision Date 24.03.2020

Ref. 130000107347

This Safety Data Sheet adheres to the standards and regulatory requirements of the Republic of Ireland and may not meet the regulatory requirements of other countries.

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

#### **1.1. Product identifier**

Product name : COLLAGE®  
Synonyms : B12989982, DPX-Q1X49 64 g/L OD

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

Use of the Substance/Mixture : Herbicide

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

Company **CHEMINOVA A/S**, a subsidiary of FMC Corporation  
Thyborønvej 78  
DK-7673 Harboøre  
Denmark  
[SDS.Ronland@fmc.com](mailto:SDS.Ronland@fmc.com)

#### **1.4. Emergency telephone numbers**

Medical emergencies: +353 1 837 9964 Ireland (Republic)  
For fire, leak, spill or other accident emergencies:  
U.S.A.: +1 800 / 424 9300 (CHEMTREC)  
All other countries: +1 703 / 741 5970 (CHEMTREC - Collect)

### **SECTION 2: Hazards identification**

#### **2.1. Classification of the substance or mixture**

Skin corrosion/irritation, Category 2 H315: Causes skin irritation.

Skin sensitisation, Sub-category 1B H317: May cause an allergic skin reaction.

Acute aquatic toxicity, Category 1 H400: Very toxic to aquatic life.

Chronic aquatic toxicity, Category 1 H410: Very toxic to aquatic life with long lasting effects.

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### 2.2. Label elements



#### Warning

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H410	Very toxic to aquatic life with long lasting effects.
Special labelling of certain substances and mixtures	EUH401: To avoid risks to human health and the environment, comply with the instructions for use.,
P261	Avoid breathing spray.
P280	Wear protective gloves/ protective clothing.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P391	Collect spillage.
P501	Dispose of contents to an approved incineration plant in accordance with local, regional and national legislations.
P501	Dispose of container to a waste disposal plant in accordance with local, regional and national legislations.
SP 1	Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).

### 2.3. Other hazards

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This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).  
This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

### **SECTION 3: Composition/information on ingredients**

#### **3.1. Substances**

Not applicable

#### **3.2. Mixtures**

Registration number	Classification according to Regulation (EU) 1272/2008 (CLP)	Concentration (% w/w)
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##### **Nicosulfuron (CAS-No.111991-09-4)**

	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	6 %
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##### **Thifensulfuron methyl (CAS-No.79277-27-3)**

	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	0.4 %
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The above products are compliant to REACH registration obligations; Registration number(s) may not be provided because substance(s) are exempted, not yet registered under REACH or are registered under another regulatory process (biocide uses, plant protection products), etc.

For the full text of the H-Statements mentioned in this Section, see Section 16.

### **SECTION 4: First aid measures**

#### **4.1. Description of first aid measures**

- General advice : Never give anything by mouth to an unconscious person.
- Inhalation : Move to fresh air. Artificial respiration and/or oxygen may be necessary. Consult a physician after significant exposure.
- Skin contact : Take off contaminated clothing and shoes immediately. Wash off immediately with soap and plenty of water. In the case of skin irritation or allergic reactions see a physician. Wash contaminated clothing before re-use.
- Eye contact : If easy to do, remove contact lens, if worn. Hold eye open and rinse slowly and gently with water for 15-20 minutes. If eye irritation persists, consult a specialist.
- Ingestion : DO NOT induce vomiting unless directed to do so by a physician or poison control center. Obtain medical attention. If victim is conscious: Rinse mouth with water.

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

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Symptoms : No cases of human intoxication are known and the symptoms of experimental intoxication are not known.

### **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 : Water spray, Dry chemical, Foam, Carbon dioxide (CO<sub>2</sub>)

Extinguishing media which shall not be used for safety reasons : High volume water jet, (contamination risk)

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

Specific hazards during firefighting : Hazardous decomposition products formed under fire conditions. Carbon dioxide (CO<sub>2</sub>) Nitrogen oxides (NO<sub>x</sub>)

### **5.3. Advice for firefighters**

Special protective equipment for firefighters : Wear full protective clothing and self-contained breathing apparatus.

Further information : Prevent fire extinguishing water from contaminating surface water or the ground water system. 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.

: (on small fires) If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated. Cool containers/tanks with water spray.

## **SECTION 6: Accidental release measures**

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

Personal precautions : Control access to area. Use personal protective equipment. Keep people away from and upwind of spill/leak. Take precautionary measures against static discharges. Refer to protective measures listed in sections 7 and 8.

### **6.2. Environmental precautions**

Environmental precautions : Use appropriate container to avoid environmental contamination. Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained. If the spill area is porous, the contaminated material must be

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collected for subsequent treatment or disposal. If the product contaminates rivers and lakes or drains inform respective authorities.

### **6.3. Methods and materials for containment and cleaning up**

Methods for cleaning up : Clean-up methods - small spillage Prevent further leakage or spillage. Soak up with inert absorbent material. Shovel into suitable container for disposal.  
Clean-up methods - large spillage Prevent further leakage or spillage. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Large spills should be collected mechanically (remove by pumping) for disposal. Collect leaking liquid in sealable (metal/plastic) containers. Collect and contain contaminated absorbent and dike material for disposal.

Other information : Never return spills in original containers for re-use. Dispose of in accordance with local regulations.

### **6.4. Reference to other sections**

For personal protection see section 8., For disposal instructions see section 13.

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

Advice on safe handling : Use only according to our recommendations. Wear personal protective equipment. For personal protection see section 8. Use only clean equipment. Provide adequate ventilation. Do not breathe vapours or spray mist. When opening containers, avoid breathing vapours that may be emanating. Prepare the working solution as given on the label(s) and/or the user instructions. Use prepared working solution as soon as possible - Do not store. To avoid spills during handling keep bottle on a metal tray. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use. Never return unused material to storage receptacle. Avoid exceeding the given occupational exposure limits (see section 8).

Advice on protection against fire and explosion : Keep away from heat and sources of ignition. Take measures to prevent the build up of electrostatic charge.

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

Requirements for storage areas and containers : Store in original container. Keep in properly labelled containers. Keep tightly closed in a dry, cool and well-ventilated place. Store in a place accessible by authorized persons only. Keep away from food, drink and animal feedingstuffs. Keep out of the reach of children.

Advice on common storage : No special restrictions on storage with other products.

Other data : Stable under recommended storage conditions.

### **7.3. Specific end use(s)**

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Plant protection products subject to Regulation (EC) No 1107/2009.

### **SECTION 8: Exposure controls/personal protection**

#### **8.1. Control parameters**

If sub-section is empty then no values are applicable.

#### **8.2. Exposure controls**

Engineering measures : Ensure adequate ventilation, especially in confined areas. Use sufficient ventilation to keep employee exposure below recommended limits.

Eye protection : Safety glasses with side-shields conforming to EN166

Hand protection : Material: Nitrile rubber  
Glove thickness: 0.3 mm  
Glove length: Standard glove type.  
Protection index: Class 6  
Wearing time: 8 h  
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Gloves must be inspected prior to use. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Gauntlets shorter than 35 cm long shall be worn under the combination sleeve. Before removing gloves clean them with soap and water.

Skin and body protection : Manufacturing and processing work: Full protective clothing Type 6 (EN 13034)

Mixer and loaders must wear: Full protective clothing Type 6 (EN 13034)  
Rubber apron Nitrile rubber boots (EN 13832-3 / EN ISO 20345).

Spray application - outdoor: Tractor / sprayer with hood: No personal body protection normally required.

Tractor / sprayer without hood: Full protective clothing Type 4 (EN 14605) Nitrile rubber boots (EN 13832-3 / EN ISO 20345).

When exceptional circumstances require an access to the treated area before the end of re-entry periods, wear full protective clothing Type 6 (EN 13034), nitrile rubber gloves class 3 (EN 374) and nitrile rubber boots (EN 13832-3 / EN ISO 20345).

To optimize the ergonomics it may be recommended to use cotton underwear when wearing some fabrics. Take advice from supplier.

Garment materials that are resistant to both water vapour and air will maximise wearing comfort. Materials should be robust to maintain the integrity and barrier in use.

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The permeation resistance of the fabric must be verified independently of the « type » protection recommended, to ensure an appropriate performance level of the material adequate to the corresponding agent and type of exposure.

- Protective measures** : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. All chemical protective clothing should be visually inspected prior to use. Clothing and gloves should be replaced in case of chemical or physical damage or if contaminated. Only protected handlers may be in the area during application.
- Hygiene measures** : Handle in accordance with good industrial hygiene and safety practice. Regular cleaning of equipment, work area and clothing. Store personal protection equipment in a clean location away from the work area. Keep working clothes separately. Contaminated work clothing should not be allowed out of the workplace. Wash hands before breaks and immediately after handling the product. Remove clothing/PPE immediately if material gets inside. For environmental protection remove and wash all contaminated protective equipment before re-use. Dispose of rinse water in accordance with local and national regulations.
- Respiratory protection** : Manufacturing and processing work: Half mask with vapour filter A1 (EN 141)
- Mixer and loaders must wear: Half mask with vapour filter A1 (EN 141)
- Spray application - outdoor: Tractor / sprayer with hood: No personal respiratory protective equipment normally required.
- Tractor / sprayer without hood: Half mask with a particle filter FFP1 (EN149)

## **SECTION 9: Physical and chemical properties**

### **9.1. Information on basic physical and chemical properties**

- Form** : liquid
- Colour** : brown
- Odour** : oily
- Odour Threshold** : not determined
- pH** : 4.9 at 10 g/l
- Melting point/range** : Not applicable
- Boiling point/boiling range** : 105 °C
- Flash point** : > 105 °C
- Flammability (solid, gas)** : The product is not flammable.

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Thermal decomposition	: Not available for this mixture.
Auto-ignition temperature	: 260 °C , Test Type :Auto-ignition temperature
Oxidizing properties	: The product is not oxidizing.
Explosive properties	: Not explosive
Lower explosion limit/ lower flammability limit	: Not available for this mixture.
Upper explosion limit/ upper flammability limit	: Not available for this mixture.
Vapour pressure	: Not available for this mixture.
Relative density	: 0.992
Water solubility	: dispersible
Partition coefficient: n-octanol/water	: Not applicable
Viscosity, dynamic	: 270 mPa.s , 25 rpm : 214 mPa.s , 50 rpm : 177 mPa.s , 100 rpm
Relative vapour density	: Not available for this mixture.
Evaporation rate	: Not available for this mixture.

### **9.2. Other information**

Phys.-chem./other information : No other data to be specially mentioned.

## **SECTION 10: Stability and reactivity**

<b>10.1. Reactivity</b>	: No hazards to be specially mentioned.
<b>10.2. Chemical stability</b>	: The product is chemically stable under recommended conditions of storage, use and temperature.
<b>10.3. Possibility of hazardous reactions</b>	: No dangerous reaction known under conditions of normal use. Polymerization will not occur. No decomposition if stored and applied as directed.
<b>10.4. Conditions to avoid</b>	: Protect from frost. To avoid thermal decomposition, do not overheat.
<b>10.5. Incompatible materials</b>	: No materials to be especially mentioned.
<b>10.6. Hazardous decomposition products</b>	: No materials to be especially mentioned.



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### **SECTION 11: Toxicological information**

#### **11.1. Information on toxicological effects**

##### Acute oral toxicity

LD50 / Rat female : > 5,000 mg/kg

Method: OECD Test Guideline 425

(Data on the product itself) Information source: Internal study report

##### Acute inhalation toxicity

LC50 / 4 h Rat male and female : > 3.47 mg/l

Method: OECD Test Guideline 403

(Data on the product itself) Information source: Internal study report

##### Acute dermal toxicity

LD50 / Rat male and female : > 5,000 mg/kg

Method: OECD Test Guideline 402

(Data on the product itself) Information source: Internal study report

##### Skin irritation

Rabbit

Result: Irritating to skin.

Method: OECD Test Guideline 404

Exposure time 72 h

(Data on the product itself) Information source: Internal study report

##### Eye irritation

Rabbit

Result: No eye irritation

Method: OECD Test Guideline 405

Exposure time 72 h

(Data on the product itself) Information source: Internal study report

##### Sensitisation

Guinea pig Maximisation Test (GPMT)

Result: Causes sensitisation.

Method: OECD Test Guideline 406

(Data on the product itself) Information source: Internal study report

##### Repeated dose toxicity

- Nicosulfuron

Oral Mouse

Exposure time: 90 d

NOAEL: 300 mg/kg

No toxicologically significant effects were found.

Oral Mouse

Exposure time: 28 d

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No toxicologically significant effects were found.

Oral Rat

Exposure time: 90 d

No toxicologically significant effects were found.

- Thifensulfuron methyl

The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.

Oral - feed multiple species

Reduced body weight gain

Oral - feed Rat

Increase in blood urea nitrogen, altered hematology

Oral Rat

Exposure time: 28 d

NOAEL: 529 mg/kg

No adverse effect has been observed in chronic toxicity tests.

### Mutagenicity assessment

- Nicosulfuron

Animal testing did not show any mutagenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

- Thifensulfuron methyl

Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Animal testing did not show any mutagenic effects.

### Carcinogenicity assessment

- Nicosulfuron

Not classifiable as a human carcinogen. Animal testing did not show any carcinogenic effects.

- Thifensulfuron methyl

Animal testing did not show any carcinogenic effects.

### Toxicity to reproduction assessment

- Nicosulfuron

No toxicity to reproduction Animal testing showed no reproductive toxicity.

- Thifensulfuron methyl

No toxicity to reproduction Animal testing showed no reproductive toxicity.

### Assessment teratogenicity

- Nicosulfuron

Did not show teratogenic effects in animal experiments.

- Thifensulfuron methyl

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Did not show teratogenic effects in animal experiments. Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.

## **SECTION 12: Ecological information**

### **12.1. Toxicity**

#### Toxicity to fish

static test / LC50 / 96 h / *Oncorhynchus mykiss* (rainbow trout): > 100 mg/l

Method: OECD Test Guideline 203

(Data on the product itself) Information source: Internal study report

#### Toxicity to aquatic plants

static test / ErC50 / 96 h / *Pseudokirchneriella subcapitata* (green algae): > 120 mg/l

Method: OECD Test Guideline 201

(Data on the product itself) Information source: Internal study report

Static renewal test / EC50 / 7 d / *Lemna gibba* (duckweed): 0.036 mg/l

Method: OECD Test Guideline 221

(Data on the product itself) Information source: Internal study report

#### Toxicity to aquatic invertebrates

static test / LC50 / 48 h / *Daphnia magna* (Water flea): > 100 mg/l

Method: OECD Test Guideline 202

(Data on the product itself) Information source: Internal study report

#### Toxicity to soil dwelling organisms

LC50 / 14 d / *Eisenia fetida* (earthworms): > 1,000 mg/kg

Method: OECD Test Guideline 207

(Data on the product itself) Information source: Internal study report

#### Toxicity to other organisms

LD50 / 48 h / *Apis mellifera* (bees): > 199.55 µg/b

Method: OECD Test Guideline 213

Oral (Data on the product itself) Information source: Internal study report

LD50 / 48 h / *Apis mellifera* (bees): > 100 µg/b

Method: OECD Test Guideline 214

Contact (Data on the product itself) Information source: Internal study report

#### Chronic toxicity to fish

- Thifensulfuron methyl

NOEC / 21 d / *Oncorhynchus mykiss* (rainbow trout): > 250 mg/l

NOEC / 62 d / *Oncorhynchus mykiss* (rainbow trout): 10.6 mg/l

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Chronic toxicity to aquatic Invertebrates

- Thifensulfuron methyl  
NOEC / 28 d / Americamysis bahia (mysid shrimp): 7.93 mg/l

EC50 / 21 d / Daphnia magna (Water flea): > 340 mg/l  
Information source: Internal study report

NOEC / 21 d / Daphnia magna (Water flea): > 340 mg/l

### **12.2. Persistence and degradability**

Biodegradability

Not readily biodegradable. Estimation based on data obtained on active ingredient.

### **12.3. Bioaccumulative potential**

Bioaccumulation

Does not bioaccumulate. Estimation based on data obtained on active ingredient.

### **12.4. Mobility in soil**

Mobility in soil

Under actual use conditions the product has a low potential of mobility in soil.

### **12.5. Results of PBT and vPvB assessment**

PBT and vPvB assessment

This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT). / This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

### **12.6. Other adverse effects**

#### **Additional ecological information**

See product label for additional application instructions relating to environmental precautions.

## **SECTION 13: Disposal considerations**

### **13.1. Waste treatment methods**

- |                        |  |
|------------------------|--|
| Product                | : In accordance with local and national regulations. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. Do not contaminate ponds, waterways or ditches with chemical or used container. |
| Contaminated packaging | : Do not re-use empty containers.  |

## **SECTION 14: Transport information**

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- |                                     |   |
|-------------------------------------|---|
| 14.1. UN number:                    | 3082  |
| 14.2. UN proper shipping name:      | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Nicosulfuron, Thifensulfuron-methyl) |
| 14.3. Transport hazard class(es):   | 9   |
| 14.4. Packing group:                | III   |
| 14.5. Environmental hazards:        | Environmentally hazardous   |
| 14.6. Special precautions for user: |   |
| Tunnel restriction code:            | (E)   |

### IATA\_C

- |   |   |
|---|---|
| 14.1. UN number:  | 3082  |
| 14.2. UN proper shipping name:  | Environmentally hazardous substance, liquid, n.o.s. (Nicosulfuron, Thifensulfuron-methyl) |
| 14.3. Transport hazard class(es):   | 9   |
| 14.4. Packing group:  | III   |
| 14.5. Environmental hazards :   | For further information see Section 12.   |
| 14.6. Special precautions for user:   |   |
| DuPont internal recommendations and transport guidance: ICAO / IATA cargo aircraft only |   |

### IMDG

- |                                     |   |
|-------------------------------------|---|
| 14.1. UN number:                    | 3082  |
| 14.2. UN proper shipping name:      | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Nicosulfuron, Thifensulfuron-methyl) |
| 14.3. Transport hazard class(es):   | 9   |
| 14.4. Packing group:                | III   |
| 14.5. Environmental hazards :       | Marine pollutant  |
| 14.6. Special precautions for user: | no data available   |

- 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**  
Not applicable

## SECTION 15: Regulatory information

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

no data available

### 15.2. Chemical Safety Assessment

A Chemical Safety Assessment is not required for this/these products  
The mixture is registered as a plant protection product under Regulation (EC) No. 1107/2009.  
Refer to the label for exposure assessment information.

## SECTION 16: Other information

### Full text of H-Statements referred to under section 3.

- |                   |   |
|-------------------|---|
| H400              | Very toxic to aquatic life.                           |
| H410              | Very toxic to aquatic life with long lasting effects. |
| Other information | professional use                                      |

### Abbreviations and acronyms

- |     |  |
|-----|--|
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by |
|-----|--|

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ATE	Road
CAS-No.	Acute toxicity estimate
CLP	Chemical Abstracts Service number
EbC50	Classification, Labelling and Packaging
EC50	Concentration at which 50% reduction of biomass is observed
EN	Median effective concentration
EPA	European Norm
ErC50	Environmental Protection Agency
EyC50	Concentration at which a 50% inhibition of growth rate is observed
IATA_C	Concentration at which 50 % inhibition of yield is observed
IBC	International Air Transport Association (Cargo)
ICAO	International Bulk Chemical Code
ISO	International Civil Aviation Organization
IMDG	International Standard Organization
LC50	International Maritime Dangerous Goods
LD50	Median Lethal Concentration
LOEC	Median Lethal Dose
LOEL	Lowest Observed Effect Concentration
MARPOL	Lowest observed effect level
n.o.s.	International Convention for the Prevention of Marine Pollution from Ships
NOAEC	Not Otherwise Specified
NOAEL	No Observed Adverse Effect Concentration
NOEC	No observed adverse effect level
NOEL	No Observed Effect Concentration
OECD	No Observed Effect Level
OPPTS	Organisation for Economic Co-operation and Development
PBT	Office of Prevention, Pesticides and Toxic Substances
STEL	Persistent, Bioaccumulative and Toxic
TWA	Short term exposure limit
vPvB	Time Weighted Average (TWA):
	very Persistent and very Bioaccumulative

### **Further information**

Take notice of the directions of use on the label., Before use read FMC's safety information. ®

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Significant change from previous version is denoted with a double bar.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.