

Thyborønvej 78 DK-7673 Harboøre

Denmark +45 9690 9690 www.fmc.com

CVR No. DK 12 76 00 4

Material group	CP10101	Page 1 of 13
Product name	FLAZASULFURON 25% WG	
		August 2017
Safety data sheet	according to EU Reg. 1907/2006 as amended	Supersedes November 2015

SAFETY DATA SHEET FLAZASULFURON 25% WG

Revision: Sections containing a revision or new information are marked with a .

◆ SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier **FLAZASULFURON 25% WG**

1.2. Relevant identified uses of the substance or mixture and uses

advised against Can be used as herbicide only.

1.3. Details of the supplier of the safety data sheet

CHEMINOVA A/S, a subsidiary of FMC Corporation

Thyborønvej 78 DK-7673 Harboøre

Denmark

SDS.Ronland@fmc.com

1.4. Emergency telephone number

(+45) 97 83 53 53 (24 h; for emergencies only) *Company*

Medical emergencies:

Austria: +43 1 406 43 43 Belgium: +32 70 245 245 Bulgaria: +359 2 9154 409 Cyprus: 1401

Czech Republic: +420 224 919 293

+420 224 915 402

Denmark: +45 82 12 12 12 France: +33 (0) 1 45 42 59 59 Finland: +358 9 471 977 Greece: 30 210 77 93 777 Hungary: +36 80 20 11 99

Ireland (Republic): +352 1 809 2166 Italy: +39 02 6610 1029

Lithuania: +370 523 62052 +370 687 53378

Luxembourg: +352 8002 5500

Netherlands: +31 30 274 88 88

Norway: +47 22 591300 Poland: +48 22 619 66 54 +48 22 619 08 97

Portugal: 808 250 143 (in Portugal only)

+351 21 330 3284 Romania: +40 21318 3606 Slovakia: +421 2 54 77 4 166 Slovenia: +386 41 650 500 Spain: +34 91 562 04 20 Sweden: +46 08-331231

112 Switzerland: 145

United Kingdom: 0870 600 6266 (in the UK only) U.S.A. & Canada: +1 800 / 331-3148 (ProPharma)

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

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Eye irritation: Kat 2 (H319)

Hazards to the aquatic environment, acute: Category 1 (H400)

chronic: Category 1 (H410)



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Health hazards Primarily irritation.

Environmental hazards The product is expected to be toxic to most plants.

2.2. Label elements

According to EU Reg. 1272/2008 as amended

Product identifier Flazasulfuron 25% WG

Hazard pictograms (GHS07, GHS09)





Signal word Warning

Hazard statements

H319 Causes serious eye irritation.

H410 Very toxic to aquatic life with long lasting effects.

Supplementary hazard statement

instructions of use.

Precautionary statements

P280 Wear eye protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

2.3. **Other hazards** Excessive dust formation may pose a dust explosion hazard.

None of the ingredients in the product meets the criteria for being PBT

or vPvB.

♣ SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. **Substances** The product is a mixture, not a substance.

3.2. **Mixtures** See section 16 for full text of hazard statements.

Active ingredient

Flazasulfuron Content: 25% by weight



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CAS name	2-Pyridinesulfonamide, N-[[(4,6-dimethoxy-2-pyrimidinyl)amino]-carbonyl]-3-(trifluorormethyl)-
CAS no	104040-78-0
IUPAC name	N-((4,6-Dimethoxypyrimidin-2-yl)carbamoyl)-3-(trifluorormethyl)-pyridine-2-sulfonamide
ISO name/EU name	Flazasulfuron
EC no. (EINECS no.)	None
EU index no.	016-085-00-2
Structural formula	OCH ₂

Reportable ingredients	Content (% w/w)	CAS no.	EC no. (EINECS no.)	Classification
Kaolin	33	1332-58-7	310-194-1	None
Sodium alkylnaphthalenesulphonate- formaldehyde condensate	8	577773-56-9	None	Eye Irrit. 2 (H319)
Aromatic hydrocarbons, C10-13, reaction products with branched nonene, sulfonated, sodium salts Reg. no. 01-2119980591-31	max. 4	1258274-08-6	None	Skin Irrit. 2 (H315) Eye Dam. 1 (H318)

SECTION 4: FIRST AID MEASURES

4.1.	Description of first aid measures	
	Inhalation	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.
	Skin contact	Immediately remove contaminated clothing and footwear. Flush skin with water. Wash with water and soap. See physician if any symptom develops.
	Eye contact	Immediately rinse eyes with much water or eyewash solution, occasionally opening eyelids, until no evidence of chemical remains. Remove contact lenses after a few minutes and rinse again. Get medical attention if irritation persists.
	Ingestion	Inducing vomiting is not recommended. Rinse mouth and drink water or milk. If vomiting does occur, rinse mouth and drink fluids again. Consult a physician immediately.



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

Generally, sulphonylurea herbicides cause lethargy, confusion, dizziness, seizures and coma on ingestion of large quantities.

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

Immediate medical attention is required in case of ingestion.

It may be helpful to show this safety data sheet to physician.

Notes to physician

A specific antidote against this substance is not known. Gastric lavage and/or administration of activated charcoal can be considered. After decontamination, treatment is supportive and symptomatic. Possible mucosal damage may contraindicate the use of gastric lavage.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Dry chemical or carbon dioxide for small fires, water spray or foam for large fires. Avoid heavy hose streams.

5.2. Special hazards arising from the substance or mixture

The essential breakdown products are volatile, toxic, irritant and inflammable compounds such as nitrogen oxides, sulphur dioxide, hydrogen fluoride, carbon monoxide, carbon dioxide and various fluorinated organic compounds.

5.3. Advice for firefighters

Use water spray to keep fire-exposed containers cool. Approach fire from upwind to avoid hazardous vapours and toxic decomposition products. Fight fire from protected location or maximum possible distance. Dike area to prevent water runoff. Firemen should wear self-contained breathing apparatus and protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

It is recommended to have a predetermined plan for the handling of spills. Empty, closable vessels for the collection of spills should be available.

In case of large spill (involving 10 tonnes of the product or more):

- 1. use personal protection equipment; see section 8
- 2. call emergency telephone no.; see section 1
- 3. alert authorities.

Observe all safety precautions when cleaning up spills. Use personal protection equipment. Depending on the magnitude of the spill this may mean wearing respirator, face mask or eye protection, chemical resistant clothing, gloves and boots.

Stop the source of the spill immediately if safe to do so. Avoid and reduce dust formation as much as possible, if appropriate by moistening. Remove sources of ignition.

6.2. Environmental precautions

Contain the spill to prevent any further contamination of surface, soil or water. Wash waters must be prevented from entering surface water



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drains. Uncontrolled discharge into water courses must be alerted to the appropriate regulatory body.

6.3. Methods and materials for containment and cleaning up

It is recommended to consider possibilities to prevent damaging effects of spills, such as bunding or capping. See GHS (Annex 4, Section 6).

If appropriate, surface water drains should be covered. Minor spills on the floor or other impervious surface should immediately be swept up or preferably vacuumed up using equipment with high efficiency final filter. Transfer to suitable containers. Clean area with strong industrial detergent and much water. Absorb wash liquid onto inert absorbent such as universal binder, Fuller's earth, bentonite or other absorbent clay and transfer contaminated absorbent to suitable containers. The used containers should be properly closed and labelled.

Large spills which soak into the ground should be dug up and transferred to suitable containers.

Spills in water should be contained as much as possible by isolation of the contaminated water. The contaminated water must be collected and removed for treatment or disposal.

6.4. Reference to other sections

See subsection 7.1. for fire prevention. See subsection 8.2. for personal protection. See section 13 for disposal.

♣ SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Like most organic powders, the product can form explosive mixtures with air. Avoid dust formation and take precautionary measures against static discharge. Use explosion protected equipment. Keep away from sources of ignition and protect from exposure to fire and heat.

In an industrial environment it is recommended to avoid all personal contact with the product, if possible by using closed systems with remote system control. The material should be handled by mechanical means as much as possible. Adequate ventilation or local exhaust ventilation is required. The exhaust gases should be filtered or treated otherwise. For personal protection in this situation, see section 8.

For its use as a pesticide, first look for precautions and personal protection measures on the officially approved label on the packaging or for other official guidance or policy in force. If these are lacking, see section 8.

Remove contaminated clothing immediately. Wash thoroughly after handling. Before removing gloves, wash them with water and soap. After work, take off all work clothes and footwear. Take a shower, using water and soap. Wear only clean clothes when leaving job.



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Wash protective clothing and protective equipment with water and soap after each use.

Do not discharge to the environment. Do not contaminate water when disposing of equipment wash waters. Collect all waste material and remains from cleaning equipment, etc., and dispose of as hazardous waste. See section 13 for disposal.

7.2. Conditions for safe storage, including any incompatibilities

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.

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

The product is a registered pesticide which may only be used for the applications it is registered for, in accordance with a label approved by the regulatory authorities.

♣ SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Personal exposure limits To our knowledge not established for the active substance in this

product. An exposure limit of 10 mg/m³ (8-hr TWA) is recommended for other sulphonylureas. However, personal exposure limits defined

by local regulations may exist and must be observed.

Year Kaolin ACGIH (USA) TLV 2015 2 mg/m³, respirable fraction of the aerosol 15 mg/m³, total dust OSHA (USA) PEL 2015 5 mg/m³, respirable fraction Not established EU, 2000/39/EC 2009 as amended 2014 Not established Germany, MAK HSE (UK) WEL 2011 2 mg/m³, respirable dust

Flazasulfuron

DNEL, dermal 0.02 mg/kg bw/day

PNEC, aquatic environment 2 ng/l

be required. The following is meant for other situations, when the use of a closed system is not possible, or when it is necessary to open the system. Consider the need to render equipment or piping systems non-

hazardous before opening.

The precautions mentioned below are primarily meant for handling of the undiluted product and for preparing the spray solution, but can be recommended for spraying as well.



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In cases of incidental high exposure, maximal personal protection may be necessary, such as respirator, face mask, chemical resistant coveralls.



Respiratory protection

The product does not automatically present an airborne exposure concern when handled carefully, but in the event of an accidental discharge of the material which produces a heavy vapour or dust, workers must put on officially approved respiratory protection equipment with a universal filter type including particle filter.



Protective gloves

Wear chemical resistant gloves, such as barrier laminate, butyl rubber or nitrile rubber. The breakthrough times of these materials for the product are unknown, but it is expected that they will give adequate protection.



Eye protection

Wear safety glasses. It is recommended to have an eye wash fountain immediately available in the workplace when there is a potential for





Other skin protection

Wear appropriate chemical resistant clothing to prevent skin contact depending on the extent of exposure. During most normal work situations where exposure to the material cannot be avoided for a limited time span, waterproof pants and apron of chemical resistant material or coveralls of polyethylene (PE) will be sufficient. Coveralls of PE must be discarded after use if contaminated. In cases of excessive or prolonged exposure, coveralls of barrier laminate may be required.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on physical and chemical properties

Appearance Light yellow solid (granules)

Odourless Odour Odour threshold Not applicable

1% dispersion in water: 5.23 pH Flazasulfuron : 180°C Melting point/freezing point

Initial boiling point and boiling range Decomposes Flash point Not determined Evaporation rate Not determined Flammability (solid/gas) Not highly flammable

Upper/ lower flammability or explosive limits

Solubility(ies)

Not determined : 1.1 x 10⁻¹⁰ Pa at 20°C 3.3 x 10⁻¹⁰ Pa at 25°C Vapour pressure Flazasulfuron

Not determined Vapour density Relative density Not determined

Pour density: 0.66 g/cm³ Tap density: 0.69 g/cm³ Solubility of **flazasulfuron** in:



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n-hexane 0.0005 g/l acetone 22.7 g/l

water 0.027 g/l at pH 5

2.100 g/l at pH 7 not stable at pH 9

Flazasulfuron : $\log K_{ow} = 1.30$ at pH 5

 $\log K_{ow} = < -0.06 \text{ at pH } 7.0$

Autoignition temperature Not autoflammable

Decomposition temperature Flazasulfuron : starting from 181°C

9.2. Other information

Miscibility The product is dispersible in water.

SECTION 10: STABILITY AND REACTIVITY

Partition coefficient n-octanol/water

temperatures.

10.3. **Possibility of hazardous reactions** None known.

10.4. **Conditions to avoid** Heating of the product will produce harmful and irritant vapours.

10.5. **Incompatible materials** Strong acids and alkalis.

10.6. **Hazardous decomposition products** See subsection 5.2.

♣ SECTION 11: TOXICOLOGICAL INFORMATION

11.1. **Information on toxicological effects** * = Based on available data, the classification criteria are not met.

Product

Acute toxicity The product is not harmful by inhalation, in contact with skin or if

swallowed. * However, it should always be treated with the usual care

of handling chemicals. The acute toxicity is measured as:

Route(s) of entry - ingestion LD_{50} , oral, rat: > 2000 mg/kg (method OECD 425)

- skin LD_{50} , dermal, rat: > 2000 mg/kg (method OECD 402)

- inhalation LC_{50} , inhalation, rat: > 5.29 mg/l/4 h (method OECD 403)

Serious eye damage/irritation Moderately irritating to eyes (method OECD 405).

Respiratory or skin sensitisation ... Not a skin sensitizer (method OECD 429). *



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Germ cell mutagenicity The product contains no ingredients known to be mutagenic. * The product contains no ingredients known to be carcinogenic. * Carcinogenicity Reproductive toxicity The product contains no ingredients known to have adverse effects on reproduction. * STOT – single exposure To our knowledge, no specific effects have been observed after single exposure. * STOT – repeated exposure The following has been measured on the active ingredient flazasulfuron: Target organ: liver NOAEL/NOEL: 2 mg/kg bw/day in a 90-day dog study. At higher exposure centrolobulillar hepatocyte hypertrophy was observed. Aspiration hazard The product contains no ingredients known to present an aspiration pneumonia hazard. * Symptoms and effects, acute and To our knowledge, adverse effects in humans have not been reported. delayed The product is not expected to cause severe adverse effects to health, but adverse health effects cannot be excluded in case of massive exposure. Generally, sulphonylurea herbicides cause lethargy, confusion, dizziness, seizures and coma on ingestion. Flazasulfuron Acute toxicity The substance is not harmful by inhalation, in contact with skin or if swallowed. * The acute toxicity is measured as: Route(s) of entry - ingestion LD_{50} , oral, rat: > 5000 mg/kg LD_{50} , dermal, rat: > 2000 mg/kg- skin - inhalation LC_{50} , inhalation, rat: > 5.99 mg/l/4 h The substance is not irritating to skin. * Skin corrosion/irritation The substance is not irritating to eyes. * Serious eye damage/irritation Respiratory or skin sensitisation ... The substance was found not to be a skin sensitizer. * Sodium alkylnaphthalenesulphonate-formaldehyde condensate Acute toxicity The substance is not considered harmful by single exposure. * Route(s) of entry - ingestion LD_{50} , oral, rat: > 5000 mg/kg - skin LD₅₀, dermal, rat: not available - inhalation LC₅₀, inhalation, rat: not available Skin corrosion/irritation May be mildly irritating to skin. *

Irritating to eyes.

Serious eye damage/irritation



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STOT – single exposure Inhalation of dust can cause irritation of airways. It is not clear if the criteria for classification are met. Aromatic hydrocarbons, C10-13, reaction products with branched nonene, sulfonated, sodium salts Acute toxicity The substance is not considered as harmful by single exposure. * LD₅₀, oral, rat: 2000 - 5000 mg/kg (method OECD 401) Route(s) of entry - ingestion - skin LD₅₀, dermal, rat: > 2000 mg/kg (method similar to OECD 402) Skin corrosion/irritation Irritating to skin (method OECD 404). Serious eye damage/irritation Severely irritating to eyes (method OECD 437). Respiratory or skin sensitisation ... Not sensitising to skin (method OECD 406). *

SECTION 12: ECOLOGICAL INFORMATION

The ecotoxicity measured on the product is:

- Fish	Rainbow trout (Oncorhynchus mykiss)	96-h LC_{50} : > 100 mg/l
- Invertebrates	Daphnids (Daphnia magna Straus)	$48-h\ LC_{50}: > 125\ mg/l$
- Algae	Green algae ($Pseudokirchneriella\ subcapitata\ Hindàk)$	72-h EC ₅₀ : 0.163 mg/l
- Plants	Duckweed (Lemna gibba)	7-day EC ₅₀ : 2.57 μg/l
- Earthworms	Eisenia foetida foetida	14-day LD ₅₀ : > 1000 mg/kg soil
- Bees	Honey bees (Apis mellifera)	48-h $LD_{50},$ oral: $>356~\mu g/bee$ 48-h $LD_{50},$ contact: $>397~\mu g/bee$

12.2. **Persistence and degradability** **Flazasulfuron** is not persistent in the environment. Primary

degradation half-lives vary very much with circumstances, from a few days to several months in aerobic water and soil. Its metabolites are

considered as persistent.

The product contains minor amounts of not readily biodegradable components, which may not be degradable in waste water treatment plants.

12.3. **Bioaccumulative potential** See section 9 for n-octanol/water partition coefficients.

Due to relatively high solubility in water, flazasulfuron does not

bioaccumulate.

mobility in soil. There is a potential for leaching to groundwater.



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12.5. Results of PBT and vPvB None of the ingredients meets the criteria for being PBT or vPvB. assessment 12.6. Other adverse effects Other relevant hazardous effects in the environment are not known. **♣** SECTION 13: DISPOSAL CONSIDERATIONS 13.1. Waste treatment methods Remaining quantities of the material and empty but unclean packaging should be regarded as hazardous waste. Disposal of waste and packagings must always be in accordance with all applicable local regulations. Disposal of product According to the Waste Framework Directive (2008/98/EC), possibilities for reuse or reprocessing should first be considered. If this is not feasible, the material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems. Disposal of packaging It is recommended to consider possible ways of disposal in the following order: 1. Reuse or recycling should first be considered. Reuse is prohibited except by the authorisation holder. If offered for recycling, containers must be emptied and triply rinsed (or equivalent). Do not discharge rinsing water to sewer systems. 2. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials. 3. Delivery of the packaging to a licensed service for disposal of hazardous waste. 4. Disposal in a landfill or burning in open air should only occur as a last resort. For disposal in a landfill containers should be emptied completely, rinsed and punctured to make them unusable for other purposes. If burned, stay out of smoke.

♣ SECTION 14: TRANSPORT INFORMATION

ADR/RID/IMDG/IATA/ICAO classification

14.1. UN number	3077
14.2. UN proper shipping name	Environmentally hazardous substance, solid, n.o.s.(flazasulfuron)
14.3. Transport hazard class(es)	9
14.4. Packing group	III
14.5. Environmental hazards	Marine pollutant



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14.6. **Special precautions for user** Avoid any unnecessary contact with the product. Misuse can result in

damage to health. Do not discharge to the environment.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the

IBC code The product is not transported in bulk by ship.

♣ SECTION 15: REGULATORY INFORMATION

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

Seveso category (Dir. 2012/18/EU): dangerous for the environment All ingredients are covered by EU chemical legislation.

15.2. Chemical safety assessment A chemical safety assessment is not required to be included for this

product.

♣ SECTION 16: OTHER INFORMATION

Relevant changes in the safety data sheet Minor corrections only.

List of abbreviations ACGIH American Conference of Governmental Industrial

Hygienists

CAS Chemical Abstracts Service

Dir. Directive

DNEL Derived No Effect Level EC European Community EC₅₀ 50% Effect Concentration

EINECS European INventory of Existing Commercial Chemical

Substances

GHS Globally Harmonized classification and labelling System

of chemicals, Fifth revised edition 2013

HSE Health and Safety Executive
IBC International Bulk Chemical code

ISO International Organisation for Standardization IUPAC International Union of Pure and Applied Chemistry

LC₅₀ 50% Lethal Concentration

LD₅₀ 50% Lethal Dose

MAK Maximale Arbeitsplatz-Konzentration

MARPOL Set of rules from the International Maritime Organisation

(IMO) for prevention of sea pollution

NOAEL No Observed Adverse Effect Level

NOEL No Observed Effect Level n.o.s. Not otherwise specified

OECD Organisation for Economic Cooperation and Development

OSHA Occupational Safety and Health Administration

PBT Persistent, Bioaccumulative, Toxic
PEL Permissible Exposure Limit
PNEC Predicted No Effect Concentration

Reg. Registration, or



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	STOT TLV TWA vPvB WEL WG WHO	Regulation Specific Target Organ Toxicity Threshold Limit Value Time Weighed Average very Persistent, very Bioaccumulative Workplace Exposure Limit Water dispersible Granules World Health Organisation
References	Data measured on the product are unpublished company data. Data on ingredients are available from published literature and can be found several places.	
Method for classification	Test data	
Used hazard statements	H315 H318 H319 H400 H410 EUH401	Causes skin irritation. Causes serious eye damage. Causes serious eye irritation. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. To avoid risks to human health and the environment, comply with the instructions of use.
Advice on training	This material should only be used by persons who are made aware of its hazardous properties and have been instructed in the required safety precautions.	

The information provided in this safety data sheet is believed to be accurate and reliable, but uses of the product vary and situations unforeseen by FMC Corporation may exist. The user has to check the validity of the information under local circumstances.

Prepared by: FMC Corporation / Cheminova A/S / GHB