

<b>SAFETY DATA SHEET</b> According to Annex II of Regulation (EC) № 1907/2006 and Regulation (EC) № 1272/2008 [CLP] <b>STRETCH</b>	<b>Issue date: 10.12.2008</b>  <b>Edition № 6</b>  <b>Date of edition:</b> 24.07.2019
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## 1. IDENTIFICATION OF THE SUBSTANCE/ MIXTURE AND OF THE COMPANY/ UNDERTAKING

### 1.1. Product identifiers

Name of the substance : Nicosulfuron 40 g/l OD  
 EC № : -  
 Registration № (REACH) : -  
 CAS № : -

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

Identified uses : Herbicide

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

Manufacture/ Supplier : Zenith Crop Sciences Bulgaria Ltd  
 Street/ Zip Code : 75-83 Dimitar Manov Str. 1408 Sofia, Bulgaria  
 Phone : +359 2 91 50 500  
 Fax : The phone number is available only during office hours.  
 E-mail :

### 1.4. Emergency telephone number

Available : +44 (0)800 246 1274 (dangerous goods safety advisor)  
 Language telephone line : 24/7  
 : English

## 2. HAZARD IDENTIFICATION

### 2.1. Classification of the substance or mixture

*Classification According Regulation (EC) No 1272/2008 (CLP)*  
 : Skin Sens. 1B; H317  
 Aquatic Acute 1; H400  
 Aquatic Chronic 1; H410

### 2.2. Label elements

*Labeling according to Regulation (EC) No 1272/2008 (CLP)*

Hazard pictograms : 

Signal words : **WARNING**

**Hazard statements** : H317 – My cause an allergic skin reaction  
 H410 – Very toxic to aquatic life with long lasting effects

### Precautionary Statements

- : **Prevention**  
**P280** – Wear protective gloves/ protective clothing
- Response**  
**P302 + P352** – *IF ON SKIN:* Wash with plenty of soap and water  
**P333** – If skin irritation or rash occurs: Get medical advice/ attention  
**P391** – Collect spillage
- Disposal**  
**P501** – Dispose of content/ container to accordance with national legislations

### Additional Precautionary Statements

- : **EUH 401** – To avoid risks to human health and the environment, comply with the instructions for use

### 2.3. Other hazards

- : Not known

## 3. COMPOSITION/ INFORMATION ON INGREDIENTS

### 3.1. Substances

- : Refers to a mixture

### 3.2. Mixtures

Description of the mixture

Name	CAS №	EC №	Index №	REACH Reg. №	Concentration (% w/v)	Classification according Regulation (EC) № 1272/2008 (CLP)
Nicosulfuron, 2-[(4,6-dimethoxypyrimidin-2-ylcarbonyl)sulfamoyl]-N,N-dimethylnicotinamide (IUPAC)	11199 1-09-4	-	-	-	4 ± 0.4	Aquatic Acute 1; H400 Aquatic Chronic 1; H410

For full text of Hazard categories and Hazard statements: see SECTION 16 (v).

## 4. FIRST AID MEASURES

### 4.1. Description of first aid measures

- Following inhalation : Remove from exposure area to fresh air. Provide artificial breathing if the breathing has stopped. Seek medical attention immediately.
- Following skin contact : Remove contaminated clothing and shoes. Wash affected area with plenty of water. Seek medical attention if necessary. Wash contaminated clothing before next use.
- Following eye contact : Immediately rinse for at least 15 minutes with large quantity of drinking water while holding eyes open. Remove contact lenses, if present and rinse eyes with plenty of drinking water for 5 minutes. Remove contact lenses and continue rinsing for 15 more minutes. Immediately seek qualified medical advice.
- Following ingestion : Never give anything by mouth to an unconscious person! Seek medical attention immediately. Don't induce vomiting. If the patient is conscious, rinse out mouth thoroughly and have the patient drink a glass of water.

- Self-protection of the first-aiders : No information
- 4.2. Most important symptoms and effects, both acute and delayed** : The most important known symptoms and/ or effects are described in Section 11.
- 4.3. Indication of any immediate medical attention and special treatment needed** : Not available

## 5. FIREFIGHTING MEASURES

### 5.1. Extinguishing media

- Suitable extinguishing media : Dry powder, carbon dioxide fire extinguishers. In case of large fires use water spray, foam extinguisher
- Unsuitable extinguishing media : No available information

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

- Hazardous combustion products : In case of fire, along with other products of combustion, the smoke contains toxic gases – sulphur dioxide, nitrogen oxides, carbon monoxide and hydrogen sulphide.

### 5.3. Advice for firefighters

- : Full impervious coverall clothing. Self-containing breathing apparatus.

## 6. ACCIDENTAL RELEASE MEASURES

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

- For those staff which does not meet for emergency* : Remove immediately.
- For the persons responsible for emergency* : Eliminate all ignition sources (flame or spark). Provide local and general exhaust ventilation. Use protective clothing and gloves, respiratory mask with an effective particulate filter, chemical goggles for eye protection.

### 6.2. Environmental precautions

- : In case of accidental release take precautions to protect the surface and underground water, soil and sewage from contamination. Remove the sources of heat and flames. In case of spill into the sewage, surface water, ground water or soil notify the competent authorities immediately.

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

- For containment and cleaning : Absorb with an inert material – sand, zeolite. Use vacuum cleaning. Do not dispose the product and/ or contaminated materials into the sewage systems, water sources or water bodies. Collect into an appropriate, labelled tightly sealed waste container. Store the container at an appropriate place for further treatment or disposal according to the national legislation.

Other information : Not available.

### 6.4. Reference to other sections

- : The collected product and/or contaminated materials should be treated as a waste according to section 13.

## 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling

- Precautionary measures : Use process enclosures, local exhaust ventilation and other suitable engineering controls to keep airborne levels below recommended exposure limits. If user operations generate aerosol, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit. (See section 8).
- Measures to prevent fire : Keep away from sources of ignition (open flames, sparkles).
- Measures to prevent aerosol and dust : Regularly clean the premises and facilities wearing personal protective equipment and using professional fire-safe cleaning tools. Keep within the workspace only the quantities necessary for the normal working process. Containers/ packaging must not be left open.
- Measures for environmental protection : No available information.
- Advice on general occupational hygiene : Do not eat, drink or smoke when handling the product. In case of contamination change the work clothing. Avoid inhalation, ingestion and contact with eyes and skin. Do not handle this product without wearing the recommended personal protective clothing and equipment.

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

- Technical measures and storage conditions : Keep in cool, dry, well-ventilated place far from sources of ignition. Prevent static electricity generation. Keep out of reach of children. Storage temperature: + 5 °C to + 35 °C.
- Packing materials : Keep in unopened original packing.
- Requirements for storage rooms and vessels : Keep away from:
  - medicinal products, food, forage, fertilizers and seed
  - hazardous infectious substances, radioactive substances, explosive substances
  - highly reactive oxidizing substances
- Class of storage : Not available
- Additional information on storage conditions : Not available

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

- Recommendations : See point 7.1, 7.2 and the label/ leaflet for relevant uses of this product.

## **8. EXPOSURE CONTROL/ PERSONAL PROTECTION**

### **8.1. Control parameters**

#### **Occupational exposure limit values in air according to national (Bulgarian) legislation**

None established

#### **Occupational exposure limit values in air according to EU legislation**

None established





**Consult the relevant national limit values currently applicable in the EU Member State/ Non-EU country in which this safety data sheet is being provided.**

### **8.2. Exposure controls**

#### **8.2.1. Appropriate engineering controls**

- Structural, organizational and technical measures : Ensure adequate local and overall ventilation in the workplace.

#### **8.2.2. Individual protection measures, such as personal protective equipment**

Respiratory protection		: In case of mist or aerosol formation use respirator with an approved filter. Half mask with a particle filter FFP2 (EN 149).
Skin protection		: <b>In case of prolonged and repeated exposure</b> Wear body-covering chemical resistant protective clothing.
Eye protection		: Use safety glasses with side shields (according to EN 166).
Hand protection		: <b>In case of short-term exposure:</b> Single-use vinyl gloves. <b>In case of prolonged or frequently repeated exposure</b> nitrile-rubber gloves with a protection class of 5 or higher breakthrough time > 240 minutes thickness > 0.4 mm.
Thermal hazards		: No available information.
<b>8.2.3. Environmental exposure controls</b>		: Emissions from the ventilation system and working equipment should be checked for conformity with environment safety legislations.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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

(a) <i>Appearance</i>	: Grey to light brown liquid
Method: Observation of colour, physical state, odour	
Reference: Own GLP study – “Physical State, Appearance and Color”	
(b) <i>Odor</i>	: Mild odor
Method: Observation of colour, physical state, odour	
Reference: Own GLP study – “Physical State, Appearance and Color”	
(c) <i>Odor threshold</i>	: Not available
(d) <i>pH</i>	: 4.0 – 7.0
Method: CIPAC MT 75.3	
Reference: Own GLP study – “pH determination”	
(e) <i>Melting point/ Freezing point</i>	: No available information
(f) <i>Initial boiling point and boiling range</i>	: No available information
(g) <i>Flash point</i>	: > 100 °C
Method: EEC A9	
Reference: Own GLP study – “Flash point”	
(h) <i>Evaporation rate</i>	: Not available
(i) <i>Flammability (solid, gas)</i>	: Not flammable
(j) <i>Upper lower flammability or explosive limits</i>	: Not available
(k) <i>Vapor pressure</i>	: No available information
(l) <i>Vapor density</i>	: No available information
(m) <i>Relative density</i>	: D <sup>20</sup> <sub>4</sub> = 0.9897 ± 0.0013

Method: CIPAC MT 3.2

Reference: Own GLP study – “Determination of relative density”

- (n) *Solubility(ies)* : No available information
- (o) *Partition coefficient: n-octanol/water* : No available information
- (p) *Auto – ignition temperature* : 428.5 °C ± 8.6 °C at 755.01 mmHg

Method: EEC A15

Reference: Own GLP study – “Auto – ignition temperature”

- (q) *Decomposition temperature* : No available information
- (r) *Viscosity* : The viscosity varied with time so is no-Newtonian fluid. The test item presents a pseudoplastic behavior, the viscosity decreases when the rotation speed increases. The viscosity range measured at 20 °C was 359.92 – 407.91 cP  
The viscosity range measured at 40 °C was 254.95 – 306.79 cP

Method: OECD 114

Reference: Own GLP study – “Determination of *Viscosity*”

- (s) *Explosive properties* : Predicted negative
- (t) *Oxidizing properties* : Predicted negative

## 9.2. Other information

**Corrosion** : No available information

## 10. STABILITY AND REACTIVITY

- 10.1. **Reactivity** : No available information
- 10.2. **Chemical stability** : Stable under normal conditions
- 10.3. **Possibility of hazardous reactions** : No available information
- 10.4. **Conditions to avoid** : Avoid storage at temperature > 35 °C in a confined place.
- 10.5. **Incompatible materials** : Avoid contact with strong oxidizing agents and strong alkalis and acids.
- 10.6. **Hazardous decomposition products** : No available information. In case of fire, see section 5

## 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### Data on formulated product

*Acute toxicity effects based on own studies:*

#### Acute oral toxicity

LD<sub>50</sub> > 2000 mg/kg bw (*rats*)

Method: EC B.1 and OECD 423

Reference: Own GLP study “Acute oral toxicity in rats”

#### Acute dermal toxicity

LD<sub>50</sub> > 2000 mg/kg bw (*rats*)

Method: EC B.3 and OECD 402

Reference: Own GLP study “Acute dermal toxicity in rats”

#### Acute inhalation toxicity (mist)

LC<sub>50</sub> > 5.06 mg/L (*rats*)

Method: EC B.2 and OECD 403

Reference: Own GLP study “Acute inhalation toxicity in rats”

**Skin corrosion/ irritation:** Not classified as skin irritant  
Method: EC B.4 and OECD 404  
Reference: Own GLP study "Acute Dermal Irritation/Corrosion"

**Serious eye damage/ irritation:** The test item Nicosulfuron 40 g/L OD, applied to rabbit eye mucosa, caused conjunctival redness and transient discharge. The effects were fully reversible within 24 hours. According to Regulation (EC) No 1272/2008, Nicosulfuron 40 g/L OD does not require classification as an eye irritant.  
Method: EC B.5 and OECD 405  
Reference: Own GLP study "Acute Eye Irritation/ Corrosion"

**Respiratory or skin sensitization: Mice**

The appearance of the lymph nodes was normal in the negative (vehicle) control group and in the 2.5 % (w/v) dose group. Larger than normal lymph nodes were observed in the 25, 10 and 5 % (w/v) dose groups and in the positive control group. The stimulation index values were 11.2, 12.5, 2.9 and 1.0 at concentrations of 25, 10, 5 and 2.5 % (w/v), respectively. Has sensitization potential (sensitizer).  
Method: EC B.42 and OECD 429  
Reference: Own GLP study "Skin sensitization"

Germ cell mutagenicity	: No mutagenic risk
Carcinogenicity	: No carcinogenic effects
Reproductive toxicity	: Not classified as toxic to reproduction
STOT – single exposure	: No evidence for specific organ effects from single exposure
STOT – repeated exposure	: No evidence for specific organ effects from repeated exposure
Aspiration hazards	: Not applicable

## 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity effects based on own studies:

#### Data on formulated product

**Waterflea (*Daphnia magna*):** The 24h EC<sub>50</sub> value > 100 mg/L  
The 48h EC<sub>50</sub> value > 100 mg/L  
Calculated 48h EC<sub>50</sub> value: 166.63 mg/L  
NOEC = 31.3 mg/L  
LOEC = 100 mg/L

Method: EC C.2 and OECD 202

Reference: Own GLP study "Acute immobilisation study in *Daphnia magna*"

**Algae (*Pseudokirchneriella subcapitata*):** EC<sub>50</sub> > 100 mg/L  
NOEC = 31.3 mg/L  
LOEC = 100 mg/L

Method: EC C.3 and OECD 201

Reference: Own GLP study "Alga growth inhibition test"

**Birds (*Japanese quail*):** LD<sub>50</sub> > 2000 mg/kg oral

Method: OPPTS 850.2100

Reference: Own GLP study "Acute oral toxicity study of Japanese quail"

**Fish (*Rainbow trout*):** The 24h, 48h, 72h and 96h LC<sub>50</sub> value > 100 mg/L  
The 96h LC<sub>100</sub> value > 100 mg/L  
NOEC = 31.3 mg/L  
LOEC = 100 mg/L

Method: EC C.1 and OECD 203

Reference: Own GLP study "Acute oral toxicity study of Rainbow trout"

**Honeybees:** ORAL (24h) LD<sub>50</sub> > 97.92 µg a.i./bee (> 2388.29 µg/bee)  
ORAL (48h) LD<sub>50</sub> > 97.92 µg a.i./bee (> 2388.29 µg/bee)

Method: EC C.16 and OECD 213

Reference: Own GLP study "Acute toxicity study in honey bees"

**Honeybees:** CONTACT (24h) LD<sub>50</sub> > 100 µg a.i./bee > (2439.02 µg/bee)  
CONTACT (48h) LD<sub>50</sub> > 100 µg a.i./bee > (2439.02 µg/bee)

Method: EC C.17 and OECD 214

Reference: Own GLP study "Acute toxicity study in honey bees"

**Earthworms:** In a 14-day toxicity study to earthworms (*Eisenia fetida*) with Nicosulfuron 40 g/L OD, the LC<sub>50</sub> was higher than 1000 mg/kg soil dry weight.

The NOEC related to biomass changes and mortality was 1000 mg/kg soil dry weight.

The test item Nicosulfuron 40 g/L OD has adverse effect on the reproduction of earthworms (*Eisenia fetida*).

EC<sub>50</sub> (56 day) > 1000 mg Test Item/kg soil dry weight

LC<sub>50</sub> (28 day) > 1000 mg Test Item/kg soil dry weight

NOEC (28 day) = 1000 mg Test Item/kg soil dry weight (based on the adult mortality and biomass development)

NOAEC (56 day) = 500 mg Test Item/kg soil dry weight (based on reproduction)

Method: OECD 207 and OECD 222

Reference: Own GLP study "Acute toxicity study in earthworms"

**Aquatic higher plant (*Lemna gibba*):** The effects of Nicosulfuron 40 g/L OD on *Lemna gibba* compared to the control plant development was demonstrated by the reduction of average specific growth rates and yield (both calculated on the basis of frond number and dry weight).

Method: OECD 221; EPA OPPTS 850.4400

Reference: Own GLP study "Toxicity to the Aquatic Higher Plant *Lemna gibba*"

<b>12.2. Persistence and degradability</b>	: Biodegradable. DT <sub>50</sub> (soil) 26 days (usually).
<b>12.3. Bioaccumulative potential</b>	: The product does not bioaccumulate in fish and insects
<b>12.4. Mobility in soil</b>	: No available information
<b>12.5. Results of PBT and vPvB assessment</b>	: No available information
<b>12.6. Other adverse effects</b>	: Not known
<b>12.7. Additional information</b>	: No additional information

## 13. DISPOSAL CONSIDERATIONS

<b>13.1. Waste treatment methods</b>	: <b>Disposal must be carried out</b> in accordance with the provisions of the national legislation, in an environmentally safe manner. <b>Recommended treatment method:</b> burning in appropriately licensed incinerators. <b>Collection of small product quantities:</b> Absorb with an inert material – sand, zeolite and store in solid waste containers. The container should be clearly labelled, with content description, danger indication symbols, H- and P-statements. Store in well ventilated areas, until deposit to a licensed waste disposal company. The water used for contaminated surface washing should be collected for further treatment. Do not reuse the empty containers for any other purpose. Do not dispose into the sewage. Do not pollute natural water sources.
<b>Waste code</b>	: 07 04 13* solid waste, containing dangerous substances 07 04 01* aqueous washing liquid and mother liquors




**Waste code, packaging** : 15 01 10\* packaging containing residues of or contaminated by dangerous substances

## 14. TRANSPORT INFORMATION

### 14.1. General information

UN-No. (ADR) : 3082  
UN proper shipping name : Environmentally hazardous substance, liquid, n.o.s (contains nicosulfuron)  
Transport hazard class(es) : 9  
Packing group : III  
Environmental hazards : **Environmentally hazardous substance indication**  
ADR/ RID/ IMDG-Code/ ICAO-TI/ IATA-DGR:  **yes** /  no  
Marine pollutant:  **yes** /  no

Marking : 

Special precautions for user : See Sections 6 – 8

## 15. REGULATORY INFORMATION

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

#### EU Legislations:

**EC Regulation 1107/2009 of the European Parliament and of the Council of 21 October 2009 concerning the placing of plant protection products and repealing Directives 79/117/EEC and 91/414/EEC**  
Applicable

**REGULATION (EC) No 1272/2008 of the European parliament and of the Council of 16 December 2008 on classification, labelling and packing of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.**  
Applicable

**COMMISSION REGULATION (EU) No 547/2011 of 8 June 2011 implementing Regulation (EC) No 1107/2009 of the European Parliament and of the Council as regards labelling requirements for plant protection products**  
Applicable

**REGULATION (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemical Agency, amending Directive 1999/45/EC and repealing Council regulation (EEC) No 793/93 and Commission regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.**  
No restrictions

**DIRECTIVE 2012/18/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 on the control of major-accident hazards involving dangerous substances, amending and subsequently repealing Council Directive 96/82/EC**  
This product is classified under the Seveso III Directive

<b>Seveso III Directive</b>
E1: Hazardous to the aquatic environment – Acute and Chronic 1

## National Legislation:

**Ordinance on prevention of major accidents involving hazardous substances and limiting their consequences.**

Applicable

**Ordinance for authorization of plant protection products.**

Applicable

**Ordinance on procedures for labelling of plant protection products.**

Applicable

### **15.2. Chemical safety assessment**

: The chemical safety assessment has been carried out for the mixture

## **16. OTHER INFORMATION**

**(i) Indication of changes**

The information in this safety data sheet was changed in the following sections:

2 – Hazard Identification

3 – Composition/ Information of ingredients

15 – Regulatory information

**(ii) Abbreviation and acronyms**

None

**(iii) Key literature references and sources for data**

ECHA Guidance on the compilation of safety data sheets (*version 3.1, November 2015*)

**(iv) Classification and procedure used to derive the classification for mixtures to Regulation (EC) 1272/2008 [CLP]**

<b>Classification according to Regulation (EC) № 1272/2008</b>	<b>Classification procedure</b>
<i>Skin Sens. 1B; H317</i>	On basis of test data
<i>Aquatic Acute 1; H400</i>	On basis of calculation method
<i>Aquatic Chronic 1; H410</i>	On basis of calculation method

**(v) Relevant H – statements (number and full text as referred to SECTION 3)**

*According Regulation (EC) №1272/2008*

**Aquatic Acute 1** – Hazardous to the aquatic environment – acute, categories of danger 1; **H400** Very toxic to aquatic life

**Aquatic Chronic 1** – Hazardous to the aquatic environment – chronic, categories of danger 1; **H410** Very toxic to aquatic life with long lasting effects

**(vi) Training advice**

General occupational hygiene training recommended

**(vii) Further information**

**THE INFORMATION PRESENTED IN THIS SAFETY DATA SHEET IS BASED ON OUR KNOWLEDGE OF THE PRODUCT AT THE DATE OF ISSUE AND IS INTENDED TO PROVIDE ONLY GENERAL HEALTH AND**

**SAFETY GUIDANCE.**

**THIS SAFETY DATA SHEET COMPLEMENTS THE TECHNICAL SPECIFICATION/ LABEL/ LEAFLET OF THE PRODUCT BUT DOES NOT REPLACE THEM.**

**THE USERS OF THIS PRODUCT SHOULD MAKE THEIR OWN ASSESSMENT OF ITS SUITABILITY FOR THE INTENDED PURPOSES PRIOR TO USE.**

**NO LIABILITY WILL BE ACCEPTED FOR ANY INJURY, LOSS OR DAMAGE RESULTING FROM ANY FAILURE TO TAKE ACCOUNT OF INFORMATION OR ADVICE CONTAINED IN THIS SAFETY DATA SHEET OR OTHER AVAILABLE TECHNICAL USAGE LITERATURE.**