

# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:  
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008



Revision date 04-Mar-2022

Revision Number 1

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

### 1.1. Product identifier

**Product Name** PARTNER  
**Product Code(s)** TP.1019.H.1\_\_\_ISR  
**Chemical name** Diuron 320 Diflufenican 80 SC  
**Pure substance/mixture** Mixture

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

**Recommended use** Herbicide; For professional users only  
**Uses advised against** No information available

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

#### Manufacturer

Tapazol Chemical Works Ltd.  
1st HaSolela st.  
West. Ind. Zone  
Beit Shemesh, Israel 9905415  
Tel: +972-2-992-6040  
Fax: +972-2-9926050  
For further information, please contact [sds@tapazol.co.il](mailto:sds@tapazol.co.il)

### 1.4. Emergency telephone number

**Emergency Telephone** +972 4 777 1900  
National Institute for Information on Poisoning  
Rambam Health Care Campus, Haifa, Israel

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

<b>Carcinogenicity</b>	Category 2 - (H351)
<b>Specific target organ toxicity (repeated exposure)</b>	Category 2 - (H373)
<b>Acute aquatic toxicity</b>	Category 1 - (H400)
<b>Chronic aquatic toxicity</b>	Category 1 - (H410)

### 2.2. Label elements

Contains Diuron (ISO)

**Signal word**

Warning

**Hazard statements**

H351 - Suspected of causing cancer

H373 - May cause damage to organs through prolonged or repeated exposure

H410 - Very toxic to aquatic life with long lasting effects

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

**Precautionary Statements - EU (§28, 1272/2008)**

P102 - Keep out of reach of children

P201 - Obtain special instructions before use

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P308 + P313 - IF exposed or concerned: Get medical advice/attention

P391 - Collect spillage

P501 - Dispose of contents/ container to an approved waste disposal plant

**Additional information**

SP1 - 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****Endocrine Disruptor Information**

Chemical name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances
Diuron (ISO)	Group II Chemical	-

**SECTION 3: Composition/information on ingredients****3.1 Substances**

Not applicable

**3.2 Mixtures**

Chemical name	EC No	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Diuron (ISO)	206-354-4	330-54-1	27-31	Acute Tox. 4 (H302) Carc. 2 (H351) STOT RE 2 (H373) Aquatic Acute 1 H400 (M=10) Aquatic Chronic 1 (H410) (M=10)
Diflufenican (ISO)	-	83164-33-4	5-9	Aquatic Acute 1 (H400) M=10000 Aquatic Chronic 1 (H410) M=1000
Poly(oxy-1,2-ethanediyl), .alpha.-[tris(1-phenylethyl)phenyl]-.ome	619-457-8	99734-09-5	3-5	Aquatic Chronic 3 (H412)

ga.- hydroxy				
--------------	--	--	--	--

**Full text of H- and EUH-phrases: see section 16**

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

<b>General advice</b>	Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention.
<b>Inhalation</b>	Remove to fresh air.
<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
<b>Skin contact</b>	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.
<b>Ingestion</b>	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.

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

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

<b>Note to physicians</b>	Treat symptomatically.
---------------------------	------------------------

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

<b>Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Small Fire</b>	Dry chemical, CO <sub>2</sub> , water spray or regular foam.
<b>Large Fire</b>	Water spray, fog or regular foam Dike fire-control water for later disposal Move containers from fire area if you can do it without risk

<b>Unsuitable extinguishing media</b>	Do not scatter spilled material with high pressure water streams.
---------------------------------------	---

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

### 5.3. Advice for firefighters

<b>Special protective equipment for fire-fighters</b>	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.
---	--

## SECTION 6: Accidental release measures

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

<b>Personal precautions</b>	Ensure adequate ventilation. Use personal protective equipment as required. Evacuate
-----------------------------	--

personnel to safe areas.

**Other information** Refer to protective measures listed in Sections 7 and 8.

**For emergency responders** Use personal protection recommended in Section 8.

### 6.2. Environmental precautions

**Environmental precautions** See Section 12 for additional Ecological Information.

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

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Take up mechanically, placing in appropriate containers for disposal.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

### 6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

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

### 7.1. Precautions for safe handling

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation.

**General hygiene considerations** Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

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

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

### 7.3. Specific end use(s)

**Risk Management Methods (RMM)** The information required is contained in this Safety Data Sheet.

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

### 8.1. Control parameters

#### Exposure Limits

Chemical name	European Union	Austria	Belgium	Netherlands	Bulgaria
Diuron (ISO) 330-54-1	-	TWA: 5 mg/m <sup>3</sup> STEL 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	-	-
Chemical name	Denmark	Germany	France	United Kingdom	Spain
Diuron (ISO) 330-54-1	TWA: 5 mg/m <sup>3</sup>	-	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> STEL: 30 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>

#### Biological occupational exposure limits

Chemical name	Latvia	Luxembourg	Romania	Slovakia

Diflufenican (ISO) 83164-33-4	-	-	5 mg/g Creatinine - urine (Fluorine) - end of shift	-
----------------------------------	---	---	--	---

**8.2. Exposure controls****Personal protective equipment**

<b>Eye/face protection</b>	No special protective equipment required.
<b>Hand protection</b>	Wear suitable gloves.
<b>Skin and body protection</b>	Wear suitable protective clothing.
<b>Respiratory protection</b>	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
<b>General hygiene considerations</b>	Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

<b>Physical state</b>	Liquid
<b>Color</b>	Off- white

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH</b>	6 - 8	
<b>pH (as aqueous solution)</b>		
<b>Melting point / freezing point</b>		
<b>Boiling point / boiling range</b>	>100 °C	
<b>Flash point</b>	>100 °C	
<b>Evaporation rate</b>	No data available.	
<b>Flammability (solid, gas)</b>	No data available.	
<b>Flammability Limit in Air</b>		
<b>Upper flammability or explosive limits</b>	No data available.	
<b>Lower flammability or explosive limits</b>	No data available.	
<b>Vapor pressure</b>	No data available.	
<b>Vapor density</b>	No data available.	
<b>Relative density</b>	1.1 - 1.18	
<b>Water solubility</b>	No data available.	
<b>Solubility(ies)</b>	No data available.	
<b>Partition coefficient</b>	No data available.	
<b>Autoignition temperature</b>	No data available.	
<b>Decomposition temperature</b>		
<b>Kinematic viscosity</b>	796 - 1061 mm <sup>2</sup> /s	
<b>Dynamic viscosity</b>	No data available.	

**9.2. Other information****SECTION 10: Stability and reactivity****10.1. Reactivity**

**10.2. Chemical stability**

**Stability** Stable under normal conditions.

**Explosion data**

**Sensitivity to mechanical impact** None.

**Sensitivity to static discharge** None.

**10.3. Possibility of hazardous reactions**

**Possibility of hazardous reactions** None under normal processing.

**10.4. Conditions to avoid**

**Conditions to avoid** None known based on information supplied.

**10.5. Incompatible materials**

**Incompatible materials** None known based on information supplied.

**10.6. Hazardous decomposition products**

**Hazardous decomposition products** None known based on information supplied.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects**

**Oral LD50** 5000 mg/kg. Based on available data, the classification criteria are not met.  
**Dermal LD50** > 2000 mg/kg. Based on available data, the classification criteria are not met.  
**Inhalation LC50** > 5.187 mg/l air 4 h Based on available data, the classification criteria are not met.

**Skin corrosion/irritation** Non-irritating to the skin. Based on available data, the classification criteria are not met.

**Serious eye damage/eye irritation** Non-irritating to the eyes. Based on available data, the classification criteria are not met.

**Respiratory or skin sensitization** Not a skin sensitizer. Based on available data, the classification criteria are not met.

Chemical name	European Union
Diuron (ISO)	Not classified
Diflufenican (ISO)	Not classified

**Carcinogenicity**

Chemical name	European Union
Diuron (ISO)	Carc. 2 (H351)
Diflufenican (ISO)	Not classified

**Reproductive toxicity**

Chemical name	European Union
Diuron (ISO)	Not classified
Diflufenican (ISO)	Not classified

**STOT - single exposure** Not classified. (Based on calculation method classification criteria are not met).

**STOT - repeated exposure** Cat 2 (H373) - May cause damage to organs through prolonged or repeated exposure.

[Diuron].

**Aspiration hazard** Not classified. (Based on available data, the classification criteria are not met).

## SECTION 12: Ecological information

### 12.1. Toxicity

**Ecotoxicity** Very toxic to aquatic life: H400 - Classification based on calculation method. Very toxic to aquatic life with long lasting effects: H410 - Classification based on calculation method.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Diuron (ISO)	Acute Aquatic: ErC50 =0.00788 mg/l Chronic Aquatic: NOEC =0.000267 mg/l	Acute Aquatic: ErC50 =14.2 mg/l Chronic Aquatic: NOEC =0.033 mg/l	-	Acute Aquatic: ErC50 =1.1 mg/l Chronic Aquatic: NOEC =0.096 mg/l
Diflufenican (ISO)	Acute Aquatic: ErC50 > 0.00025 mg/l Chronic Aquatic: NOEC = 0.0001 mg/l	Acute Aquatic: ErC50 > 0.099 mg/l Chronic Aquatic: NOEC = 0.015 mg/l	-	Acute Aquatic: ErC50 > 0.24 mg/l Chronic Aquatic: NOEC = 0.052 mg/l

### 12.2. Persistence and degradability

**Persistence and degradability** Diuron shows moderately to highly persistent. Diuron is not readily biodegradable. Diflufenican is moderately to very persistent. Diflufenican is Not readily biodegradable.

### 12.3. Bioaccumulative potential

**Bioaccumulation** Diuron shows no potential for bioaccumulation.

**Bioconcentration factor (BCF)** Diuron: No experimental study characterizing the bioconcentration potential in fish is available.

### Component Information

Chemical name	Partition coefficient
Diuron (ISO)	2.87
Diflufenican (ISO)	4.2

### 12.4. Mobility in soil

**Mobility in soil** Diuron: Extrapolated DT50 is 491d. Diflufenican: DT50 is 94.5 - 540.8d.

### 12.5. Results of PBT and vPvB assessment

**PBT and vPvB assessment** The components in formulation do not meet the criteria for classification as PBT or vPvB.

Chemical name	PBT and vPvB assessment
Diuron (ISO)	The substance is not PBT / vPvB
Diflufenican (ISO)	The substance is not PBT / vPvB
Poly(oxy-1,2-ethanediyl), .alpha.- [tris(1-phenylethyl)phenyl]-.omega.-hydroxy	The substance is not PBT / vPvB

### 12.6. Other adverse effects

#### Endocrine Disruptor Information

Chemical name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances
Diuron (ISO)	Group II Chemical	-

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

**SECTION 14: Transport information****IMDG**

14.1 UN number 3082  
 14.2 UN proper shipping name Environmentally hazardous substance, liquid, n.o.s. [Diuron], [Diflufenican]  
 14.3 Transport hazard class(es) 9  
 14.4 Packing group III  
 14.5 Marine pollutant Yes  
 Environmental hazards Yes  
 14.6 Special precautions for user  
 Special Provisions None  
 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

**RID**

14.1 UN number 3082  
 14.2 UN proper shipping name Environmentally hazardous substance, liquid, n.o.s. [Diuron], [Diflufenican]  
 14.3 Transport hazard class(es) 9  
 14.4 Packing group III  
 14.5 Environmental hazards Yes  
 14.6 Special precautions for user  
 Special Provisions None

**ADR**

14.1 UN number 3082  
 14.2 UN proper shipping name Environmentally hazardous substance, liquid, n.o.s. [Diuron], [Diflufenican]  
 14.3 Transport hazard class(es) 9  
 14.4 Packing group III  
 14.5 Environmental hazards Yes  
 14.6 Special precautions for user  
 Special Provisions None

**IATA**

14.1 UN number Not regulated  
 14.2 UN proper shipping name Environmentally hazardous substance, liquid, n.o.s. [Diuron], [Diflufenican]  
 14.3 Transport hazard class(es) 9  
 14.4 Packing group III  
 14.5 Environmental hazards Yes  
 14.6 Special precautions for user  
 Special Provisions None

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations**

France  
 Occupational Illnesses (R-463-3, France)

Germany



**Water hazard class (WGK)** strongly hazardous to water (WGK 3)

### European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

### Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

### Persistent Organic Pollutants

Not applicable

### Dangerous substance category per Seveso Directive (2012/18/EU)

E1 - Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

**Ozone-depleting substances (ODS) regulation (EC) 1005/2009** Not applicable

### International Inventories

<b>TSCA</b>	Contact supplier for inventory compliance status
<b>DSL/NDSL</b>	Contact supplier for inventory compliance status
<b>EINECS/ELINCS</b>	Contact supplier for inventory compliance status
<b>ENCS</b>	Contact supplier for inventory compliance status
<b>IECSC</b>	Contact supplier for inventory compliance status
<b>KECL</b>	Contact supplier for inventory compliance status
<b>PICCS</b>	Contact supplier for inventory compliance status
<b>AICS</b>	Contact supplier for inventory compliance status

### Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

### 15.2. Chemical safety assessment

## SECTION 16: Other information

### Key or legend to abbreviations and acronyms used in the safety data sheet

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

H302 - Harmful if swallowed  
H351 - Suspected of causing cancer  
H373 - May cause damage to organs through prolonged or repeated exposure  
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

#### Legend

SVHC: Substances of Very High Concern for Authorization:

#### Legend Section 8: Exposure controls/personal protection

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

**Classification procedure**

H351 - Classification based on calculation method  
H373 - Classification based on calculation method  
H400 - Classification based on calculation method  
H410 - Classification based on calculation method

**Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)  
U.S. Environmental Protection Agency ChemView Database  
European Food Safety Authority (EFSA)  
EPA (Environmental Protection Agency)  
Acute Exposure Guideline Level(s) (AEGL(s))  
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
U.S. Environmental Protection Agency High Production Volume Chemicals  
Food Research Journal  
Hazardous Substance Database  
International Uniform Chemical Information Database (IUCLID)  
Japan GHS Classification  
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
NIOSH (National Institute for Occupational Safety and Health)  
National Library of Medicine's ChemID Plus (NLM CIP)  
National Library of Medicine's PubMed database (NLM PUBMED)  
National Toxicology Program (NTP)  
New Zealand's Chemical Classification and Information Database (CCID)  
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
Organization for Economic Co-operation and Development Screening Information Data Set  
World Health Organization

**Revision date**

04-Mar-2022

**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

**Disclaimer**

**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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.**

**End of Safety Data Sheet**