

# SAFETY DATA SHEET

Issue date: 18/09/2023

## 1. Identification of the substance or mixture and of the supplier

**Product:** Pendimethalin 330 g/L (EC)

Product name: SPIRIT
Recommended use: Herbicide

**Supplier:** Luxembourg Industries Ltd.

27 Hamered St. Tel Aviv 6812509 ISRAEL Tel: +972 3 796 4300

**Emergency phone number:** +972 3 796 4300

#### 2. Hazards identification

Classification of the product according to the Global Harmonized System of Classification and Labelling of Chemicals (GHS).

**Hazard classification:** Flammable liquid Category 3

Acute toxicity-Oral Category 5
Eye irritation: Category 2B
STOT SE Category 3
Toxic to reproduction Category 2
Hazardous to the aquatic environment

Acute aquatic toxicity: Category 2

Chronic aquatic toxicity: Category 1

**Label elements:** <u>Pictogram:</u>



Signal word: Warning

**Hazard statement(s):** H226 Flammable liquid and vapour.

H303 May be harmful if swallowed.

H320 Causes eye irritation.

H335 May cause respiratory irritation.H336 May cause drowsiness or dizziness.

H361 Suspected of damaging fertility or the unborn child.H410 Very toxic to aquatic life with long lasting effects.

## **Precautionary statement(s):**

Prevention: P210 Keep away from heat/sparks/open flames/hot surfaces. No

smoking.

P233 Keep container tightly closed.
P242 Use only non-sparking tools.
P261 Avoid breathing vapours/spray.

P271 Use only outdoors or in a well-ventilated area.

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# LUXEMBOURG INDUSTRIES LTD

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

P264 Wash hands and face thoroughly after handling.

P273 Avoid release to the environment.

Response: P370 + P378 In case of fire: Use foam, water spray or fog for extinction.

P303+P361+P353 IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water/shower.

rest in a position comfortable for breathing.

P312 Call a POISON CENTER or doctor/ physician if you feel

unwell.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for

several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P391 Collect spillage.

Storage: P403 + P235 Store in a well-ventilated place. Keep cool.

P233 Keep container tightly closed.

P405 Store locked up.

Disposal: P501 Dispose of contents/container in accordance with

national/international regulations.

Other hazards: No data available

#### 3. Composition/information on ingredients

Name	Product identifier	Conc.	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Pendimethalin	CAS No.: 40487-42-1	330 g/L	Repr. 2, H361d Aquatic acute 1, H400, M=100 Aquatic chronic 1, H410, M=100
Hydrocarbons, C9 aromatics	EC No.: 918-668-5	< 60% W/W	Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3 H335; STOT SE 3 H336; EUH066 Aquatic chronic 2, H411

#### 4. First-aid measures

IF exposed or concerned: Get medical advice/attention.

**Ingestion:** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON

CENTER or doctor/ physician if you feel unwell.



**Inhalation:** IF INHALED; Remove victim to fresh air and keep at rest in a position

comfortable for breathing. Call a POISON CENTER or doctor/physician if you

feel unwell.

**Eyes:** IF IN EYES: rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get

medical advice/attention.

Skin: IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash

occurs: Get medical advice/attention.

Most important symptoms and effects, both acute and delayed.

No data available

Indication of any immediate medical attention and special treatment needed.

There is no specific antidote. Treat symptomatically.

# 5. Fire-fighting measures

Suitable extinguishing media: Use foam, water spray or fog. Dry chemical powder,

> carbon dioxide (CO<sub>2</sub>), sand or earth may be used for small fires only. Move containers from fire area if you can do it without risk. Dike fire-control water for later

disposal; do not scatter the material.

Specific hazards arising from the

chemical:

During a fire, irritating and possibly toxic gases may be

generated by thermal decomposition or combustion.

Special protective equipment and

precautions for fire-fighters:

Wear positive pressure self-contained breathing apparatus (SCBA) and chemical protective clothing.

#### 6. Accidental release measures

Personal precautions, protective

Use personal protective equipment. Avoid breathing equipment and emergency procedures: vapors, mist or gas. Ensure adequate ventilation.

**Environmental precautions:** Prevent further leakage or spillage if safe to do so.

Do not let product enter drains. Discharge into the

environment must be avoided.

Methods and materials for containment and cleaning up: Absorb or cover with dry earth, sand or other noncombustible material and transfer to containers.



# 7. Handling and storage

**Precautions for safe handling:** Do not handle until all safety precautions have been

> read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe mists/vapours/spray. Use only outdoors or in a well-

ventilated area. Wear respiratory protection.

Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment.

any incompatibilities:

Conditions for safe storage, including Keep locked up and out of the reach of children. Store in a well-ventilated place. Keep container tightly

closed.

#### 8. Exposure controls / personal protection

Occupational exposure limits: Pendimethalin: Not established TLV (ACGIH):

Aromatic solvent: 25 ppm

**Appropriate engineering controls:** Provide exhaust ventilation or other engineering

controls to keep the airborne concentrations low. Ensure

that eyewash stations and safety showers are in

proximity to the work-station location.

**Personal protective equipment:** Wear respiratory, eye/face protection. Wear protective

gloves.

#### 9. Physical and chemical properties

**Appearance:** Liquid Colour: Yellow **Odour:** Aromatic pH-value (1%): 5-7

**Melting point/freezing point:** No data available **Boiling point:** No data available **Evaporation rate:** No data available

 $> 40 \, ^{\circ}\text{C}$ Flash point: Flammability: Flammable

Vapour pressure: No data available Vapour density: No data available **Bulk density:** 0.96-0.98 g/mL Solubility in water: No data available **Partitition coefficient n-octanol/water:**  $K_{ow} log P = 5.2$ **Ignition temperature:** No data available **Decomposition temperature:** No data available No data available **Viscosity:** 



# 10. Stability and reactivity

**Reactivity:** Technical pendimethalin decomposes with exothermic

reaction at around 200°C. Avoid heating the product to

high temperatures.

**Chemical stability:** Material is stable under normal conditions of use and

storage.

**Possibility of hazardous reactions:** May react strongly with oxidizing agents.

**Conditions to avoid:** Avoid heat and open flame.

**Incompatible materials:** Strong oxidizers

**Hazardous decomposition products:** On fire emits toxic and irritating fumes.

# 11. Toxicological information

# **Acute toxicity**

Oral LD<sub>50</sub> (rat): 4781 mg/kg Dermal LD<sub>50</sub> (rabbit): > 5000 mg/kg

Skin corrosion/irritation

Skin irritation (rabbit): Not irritant

Serious eye damage/irritation

Eye irritation (rabbit): Mildly irritant

Respiratory or skin sensitization

Dermal sensitization: Not a skin sensitizer

**Germ cell mutagenicity:** Non mutagenic

Carcinogenicity: Not classified by IARC

Reproductive toxicity: No data available STOT\* single exposure: No data available STOT repeated exposure: No data available Aspiration hazard: No data available

# 12. Ecological information

# **Ecotoxicity:**

Birds

 $\begin{array}{ll} \mbox{Mallard duck $LD_{50:}$} & \mbox{1421 mg/kg} \\ \mbox{Northern Bobwhite quail $LC_{50:}$} & \mbox{4187 mg/kg} \\ \mbox{Mallard duck $LC_{50:}$} & \mbox{4640 mg/kg} \end{array}$ 

Fish

Poecillia reticulate LC<sub>50 (96h):</sub> 17.43 mg/L



<sup>\*</sup>Specific Target Organ Toxicity

*Cyprinus carpio* LC<sub>50 (96h):</sub> 4.9 mg/L

Daphnia

 $\begin{array}{ll} \textit{Daphnia magna} \; EC_{50 \; (48 \; hr):} & 3.62 \; mg/L \\ \textit{Daphnia magna} \; NOEC & 1 \; mg/L \\ \end{array}$ 

Algae

Scenedesmus subspicatus ErC<sub>50:</sub> 3.44 mg/L NOEC 0.05

Bees

 $LD_{50 \; (48h,\; oral):} > 20 \; \mu g \; a.i./bee$   $LD_{50 \; (48h,\; contact):} > 20 \; \mu g \; a.i./bee$ 

Persistence and degradability: Persistent in soil. DT<sub>90</sub> >100 days

Bioaccumulative High potential of bioaccumulate in fish

**potential: RED** BCF 5100 (whole fish)

Mobility in soil: RED Immobile

Other adverse effects: No data available

# 13. Disposal considerations

Do not reuse empty containers. Dispose of in accordance with local regulations.

# 14. Transport information

UN No.: 1993

**Proper shipping name:** FLAMMABLE LIQUID, N.O.S. (aromatic solvents)

Transport hazard class: 3
Packaging group: III
Marine pollutant: Yes

# 15. Regulatory information

This data sheet complies with the requirements of the Global Harmonized System of Classification and Labelling of chemicals (GHS).

#### 16. Other information

The information contained herein is applicable solely to the indicated product, and does not relate to any other use of this product as described. Its use is intended by persons having technical skill and at their own discretion and risk. The information has been developed from sources reliable. This information is furnished without warranty, expressed or implied, including the warranties of merchantability and fitness for a particular purpose is made with respect to the information contained herein.

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