



SAFETY DATA SHEET

LEAFSHINE Natural Plant

1. IDENTIFICATION OF THE SUBSTANCE OR MIX AND THE COMPANY

- 1.1.- Product identifier: LEAFSHINE Natural PLANT
- 1.2.- Product use: Surface polish spray.
- 1.3.- Company Details: **PRODUCTOS FLOWER, S.A.**
Polígono Industrial La Canaleta s/n
25300 TÁRREGA (Lleida)
Teléfono: 973 50 01 88 --- Fax: 973 31 23 51
e-mail: laboratorio@productosflower.com
- 1.4.- Emergency telephone:: 973 50 01 88 office hours

2. DANGER IDENTIFICACION

2.1.- Classification of the substance or the mixture. Human health:

Classification (REGULATION (EC) No. Nº1272/2008

Flammable aerosols,
Category 1

H222: Extremely flammable aerosol.
H229: Pressurized container: may burst if heated.

2.2.- Label elements:

Labeling (REGULATION (EC) NO. 1272/2008)

Hazard Pictogram



- Warning:: Danger
- Hazard indications: H222 Extremely flammable aerosol.
H229 Pressurized container: may burst if heated
- Precautionary / Caution: P102 Keep out of the reach of children.

Prevention:

- P210: Keep away from heat, sparks, open flames or hot surfaces. -No Smoking.
P211: Do not pulverize over a flame
P251: Pressurized container: Do not pierce or burn, even after use..
P261: Avoid breathing aerosol.
P271: Use only outdoors or in a well-ventilated area.

Storage:

- P410 + P412: Protect from light from the sun. Do not expose to temperatures exceeding 50°C/122°F.

2.3.- Other hazards:

Misuse can be damaging to your health. This mixture contains no substance that is persistent, bioaccumulative or toxic (PBT).

3. COMPOSITION I INGREDIENT INFORMATION

Substance considered dangerous	Registration number	CAS Number	EINECS Number	% w/w	Hazard class and category (Rg.1272/2008)	Hazard indications (Rg.1272/2008)
Propan-2-ol	01-2119457558-25-XXX	67-63-0	200-661-7	< 10	Liq. Infl. 2, Eye irrit. 2 STOT SE 3	H225, H336, H319
Butane		106-97-8	203-448-7	25-50	Gas infl. 1, Gas a pre.	H220, H280
Propane		74-98-6	200-827-9	10-25	Gas infl. 1, Gas a pre.	H220, H280
Isobutane		75-28-5	200-857-2	10-15	Gas infl. 1, Gas a pre.	H220, H280

4. FIRST AID

4.1.- Description of first aid:

General recommendations: go to the doctor for advice when symptoms persist or in case of any doubt. Do not give anything orally to an unconscious person.

If inhaled: take the patient outside (outdoors) to be able to breath. Keep patients warm and rested in a safety half position. Loosen its clothes. In case of adverse health go to the doctor.

In case of skin contact: Remove the contaminated clothing. In case of contact with skin, wash immediately with plenty of soap and water. If symptoms persist, consult a doctor.

In case of contact with eyes: rinse immediately with plenty of water for at least 15 minutes. If symptoms persist, consult a doctor.

If swallowed: rinse mouth. Do not induce vomiting. Call a doctor immediately.

4.2.- Main symptoms and effects, both acute and delayed:

Eye contact: may cause eye irritation.

Skin contact: may cause irritation.

Inhalation: may cause headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Ingestion: may cause irritation of throat, abdominal pain, drowsiness, nausea, vomiting and diarrhea.

4.3.- Indication of all medical attention and special treatment that should be dispensed immediately:

Treatment: Treat symptomatically.

5. FIRE FIGHTING MEASURES

5.1.- Extinguishing

Appropriate extinguishing methods: Foam, carbon dioxide or dry agent.

5.2.- Specific hazards arising from the substance or the mixture:

Aerosols may explode if exposed to temperatures over 50°C. Form of hazardous decomposition products: CO, CO₂.

5.3.- Recommendations for fire fighting personnel:

Keep cold all the containers exposed to fire by spraying and throwing water. In case of fire, do not breathe fumes.

6. MEASURES TO TAKE IN CASE OF ACCIDENTAL RELEASE

6.1.- Personal precautions, protective equipment and emergency procedures:

Shut off all ignition sources. Ensure adequate ventilation. Use suitable protective clothing and gloves

6.2.- Environmental precautions:

Do not allow it to enter public sewers and watercourses. If polluted water reaches sewers or watercourses, immediately inform the appropriate authorities.

6.3.- Methods and materials for cleaning containment:

Clean up the spill with non-combustible absorbent materials (earth, sand, diatomaceous earth ...). Place in suitable containers.

6.4.- Reference for other sections:

For exposure control and personal protection measures, see section 8.
For the subsequent waste disposal, follow the recommendations in section 13.

7. HANDLING AND STORAGE

7.1.- Precautions for safe handling:

Comply with current legislation on occupation health and safety. Keep away from heat and sources of ignition. Prevent the accumulation of electrostatic charges. Use electric ventilating or flame-proof lighting. Use only non-sparking tools. Do not breathe aerosols or vapors. Ensure adequate ventilation. Avoid contact with eyes and skin. Wash thoroughly after use. Wear protective gloves/protective clothing/eye protection/face protection. Have bottles of eye protection ready.

7.2.- Conditions for safe storage, including any incompatibilities:

The entry of unauthorized persons is prohibited. Keep out of the reach of children. The product must be stored away from heat and electrical sources. No smoking in the storage area. Avoid direct contact with sunlight. Avoid extreme humidity. Keep away from oxidizing agents, from strong alkaline and strong acid materials.

7.3.- Specific end uses:

Leafshine

8. EXPOSURE CONTROLS I PERSONAL PROTECTION

8.1.- Control parameters:

Occupational exposure limit values:

INSHT 2012 values	Nº CAS	ELV-ET		ELV-SE	
		ppm	mg/m3	ppm	mg/m3
Propan-2-ol	67-63-0	400	998	500	1250
Butane	106-97-8	1000			
Propane	74-98-6	1000			
Isobutane	75-28-5	1000			

ELV: Environmental limit value. ET: exposure target. SE: short-term exposure.

8.2.- Exposure controls:

Control procedure: Ensure adequate ventilation. Keep away from flames and sources of ignition. Prevent the accumulation of electrostatic charges.

Personal protection: take precautions to avoid contact with skin and eyes when handling the product. Ensure adequate ventilation.

Respiratory: in case of insufficient ventilation, wear suitable respiratory equipment. Mask for gases and organic vapors (A, AX) (EN141-143).

Hands and skin: wear suitable protective gloves (butyl rubber) (EN374).

Eyes: Wear protective glasses

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical	aerosol.
Odor	characteristic.
pH:	no applicable.
Boiling point:	-12°C a 1 atm.
Combustion point:	-82.7°C (propelent).
Upper explosive limit:	9.9% volume
Lower explosive limit:	2.2% volume
Auto-ignitability:	>200°C.
Vapour pressure:	no applicable.
Relative density:	no applicable.
Soluble in water:	immiscible.
Viscosity:	no applicable.

10. STABILITY AND REACTIVITY

10.1.- Reactivity: No decomposition if stored and applied as directed

10.2.- Chemical stability: No decomposition if stored and applied as directed.

10.3.- Possibility of hazardous reactions: No decomposition if stored and applied as directed.

10.4.- Conditions to avoid: avoid overheating.

10.5.- Incompatible materials: Keep away from strong oxidizing agents and strong alkaline or acids.

10.6.- Hazardous decomposition products: In case of fire, hazardous decomposition products can be formed such as carbon dioxide (CO₂), carbon monoxide.

11. TOXICOLOGICAL INFORMATION

11.1.- Information on toxicological effects:

Exposure through The solvent's vapors can cause nausea, headaches and dizziness.

Skin contact: Repeated exposure can cause dryness or the formation of cracks in the skin.

Eye contact: Irritating to eyes.

Ingestion: May cause gastrointestinal disturbances.

Toxicological data

Hazardous Component	Nº CAS	DL50 mg/kg oral	DL50 mg/kg dermal	CL50 mg/m ³ inhalation
Propan-2-ol	67-63-0	5840	13900	> 25000

12. ECOLOGICAL INFORMATION

12.1.- Toxicity: not classified.

Eco toxicological data

Hazardous Component	Nº CAS	EC50-mg/l	IC50-mg/l	LC50-mg/l - 96h
Propan-2-ol	67-63-0			9640
Butane	106-97-8	4.71 - 96h. -Seaweed		
Propane	74-98-6	4.71 - 96h. - Seaweed		

12.2.- Persistence and degradability: Not available.

12.3.- Bioaccumulation potential: Not available.

12.4.- Mobility in soil: not available.

12.5.- Results of the PBT and vPvB: not available.

12.6.- Other adverse effects: not available.

13. DISPOSAL CONSIDERATIONS

13.1.- Methods of waste treatment:

Product: dispose of the product's waste and its container with all possible precautions. Do not pour into drains or the environment. Dispose of waste at an authorized point.

Contaminated packaging: disposal should be in accordance with local, provincial or national ordinances.

14. TRANSPORTATION INFORMATION

14.1.- United Nations (UN) number 1950

14.2.- Official United Nations (UN) shipping name: AEROSOLS.

14.3.- Hazard classes for transport: Class; 2.1 /ADR/RID _Classification code; 5F.

14.4.- Groups of packaging: not applicable.

14.5.- Adverse effects on the environment:

ADR/RID _dangerous for the environment; None

IMDG _marine pollutant; None

IATA/ICAO _dangerous for the environment; None

14.6.- Special precautions for users:

ADR/RID _Tunnel code; **(D)**.

IMDG – Ems; F-D, S-U.

IATA/ICAO – PAX; 203.

IATA/ICAO – CAO; 203.

14.7.- Bulk transport according to Annex II of the Maropl 73178 Convention and IBC Code: not applicable.

15. REGULATORY INFORMACION

15.1.- Regulation and legislation on safety, health and specific environments for the mixture:

Directive 2008/47/EC modification of the aerosol 75/324/EEC directive. Directive 99/45/EU. Regulation (EC) N° 1907/2006.

15.2.- Chemical safety evaluation: Not available.

16. OTHER INFORMACION

Hazard indications:

H220: Extremely flammable gas; H280 Contains gas under pressure; explosion hazard if heated. H225: highly flammable liquid and vapor. H226: flammable liquids and vapors. H319: causes serious eye irritation. H336: May cause drowsiness and dizziness.

Supplementary information: P96: pressurized receptacle. Protect from sunlight and do not expose to temperatures above 50°C. Do not pierce or burn, even after use. P97: Do not spray on an open flame or incandescent material. Store away from all sources of flames or sparks. No smoking. Keep out of the reach of children.

The information provided in this Safety Data Sheet is offered in good faith and is as correct as possible according to our knowledge on the date of publication. It does not imply the acceptance of any commitment or legal responsibility for the results of its use or abuse under any circumstances.

The information provided is intended only as a guide for safety in handling, use, processing, storage, transportation, disposal and unloading and it should not be considered as a quality specification.