

Safety Data Sheet
according to 1907/2006/EC, Article 31

Printing date 20.11.2007

Version: 1

Revision: 02.02.2007

1 Identification of the substance/preparation and of the company/undertaking

- **Product details**
- **Trade name:** Pokon leafshine
- **Article number:** T703
- **Application of the substance / the preparation** Plant, flower and/or garden care product
- **Manufacturer/Supplier:**
Chrysal International BV
P.O. Box 5300
1410 AH NAARDEN
Gooimeer 7
1411 DD NAARDEN
The Netherlands
Tel.: +31 (0)35 6955888
Fax: +31 (0)35 6955822
E-mail: info@chrysal.nl
- **Further information obtainable from:**
Department: Regulatory Affairs
Contact: P. Herman
- **Information in case of emergency:** Tel.: +31 (0)35 6955851

2 Hazards identification

- **Hazard description:**



F+ Extremely flammable

- **Information concerning particular hazards for human and environment:**
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
Warning! Pressurized container.
R 12 Extremely flammable.
R 53 May cause long-term adverse effects in the aquatic environment.
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.
Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.
Keep out of the reach of children
- **Classification system:**
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Mixture of substances listed below with nonhazardous additions.

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· Dangerous components:

CAS: 106-97-8 EINECS: 203-448-7	butane	F+; R 12	10-25%
CAS: 74-98-6 EINECS: 200-827-9	propane	F+; R 12	10-25%
CAS: 67-63-0 EINECS: 200-661-7	propan-2-ol	Xi, F; R 11-36-67	10-25%

· Additional information: For the wording of the listed risk phrases refer to section 16.

4 First-aid measures

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** Seek medical treatment.

5 Fire-fighting measures

- **Suitable extinguishing agents:**
Water haze
Foam
Carbon dioxide
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Protective equipment:** Mount respiratory protective device.
- **Additional information:** Cool endangered receptacles with water spray.

6 Accidental release measures

- **Person-related safety precautions:**
Keep away from ignition sources.
Ensure adequate ventilation
Particular danger of slipping on leaked/spilled product.
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**
Ensure adequate ventilation.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.

7 Handling and storage

- **Handling:**
- **Information for safe handling:** Use only in well ventilated areas.
- **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.

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Protect against electrostatic charges.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

Do not spray onto a naked flame or any incandescent material.

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Store in a cool location.

Observe official regulations on storing packagings with pressurized containers.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:**

Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

Store in dry conditions.

Store receptacle in fume cupboard.

Protect from heat and direct sunlight.

Protect from frost.

8 Exposure controls/personal protection

· **Additional information about design of technical facilities:** No further data; see item 7.

· **Ingredients with limit values that require monitoring at the workplace:**

106-97-8 butane

WEL	Short-term value: 1810 mg/m ³ , 750 ppm
	Long-term value: 1450 mg/m ³ , 600 ppm

67-63-0 propan-2-ol

WEL	Short-term value: 1250 mg/m ³ , 500 ppm
	Long-term value: 999 mg/m ³ , 400 ppm

· **Additional information:** The lists valid during the making were used as basis.

· **Personal protective equipment:**

· **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Do not inhale gases / fumes / aerosols.

Do not eat, drink, smoke or sniff while working.

Avoid contact with the eyes.

Wash hands before breaks and at the end of work.

· **Respiratory protection:** Use suitable respiratory protective device in case of insufficient ventilation.

· **Protection of hands:**



Protective gloves

· **Material of gloves:** Rubber gloves

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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· **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

· **General Information**

Form: Aerosol
Colour: Colourless
Odour: Alcohol-like

· **Change in condition**

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: Not applicable, as aerosol.

· **Flash point:** < 0°C

· **Self-igniting:** Product is not selfigniting.

· **Danger of explosion:** Heating may cause an explosion.

· **Density at 20°C:** 0.669 g/cm³

· **Solubility in / Miscibility with water:** Insoluble.

· **Solvent content:**
Organic solvents: 82.67 %

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.

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12 Ecological information

· **General notes:**

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

· **Product:**

· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· **Land transport ADR/RID (cross-border)**



· **ADR/RID class:** 2 5F Gases.

· **Danger code (Kemler):** 23

· **UN-Number:** 1950

· **Packaging group:** -

· **Hazard label** 2.1

· **Description of goods:** 1950 AEROSOLS

· **Maritime transport IMDG:**



· **IMDG Class:** 2

· **UN Number:** 1950

· **Label** 2.1

· **Packaging group:** -

· **EMS Number:** F-D,S-U

· **Marine pollutant:** No

· **Proper shipping name:** AEROSOLS

· **Air transport ICAO-TI and IATA-DGR:**



· **ICAO/IATA Class:** 2.1

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- **UN/ID Number:** 1950
- **Label** 2.1
- **Packaging group:** -
- **Proper shipping name:** AEROSOLS, flammable

15 Regulatory information

- **Labelling according to EU guidelines:**
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
- **Code letter and hazard designation of product:**
F+ Extremely flammable
- **Risk phrases:**
12 Extremely flammable.
53 May cause long-term adverse effects in the aquatic environment.
- **Safety phrases:**
7/9 Keep container tightly closed and in a well-ventilated place.
23 Do not breathe aerosol.
24/25 Avoid contact with skin and eyes.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
51 Use only in well-ventilated areas.
- **Special labelling of certain preparations:**
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.
Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.
Keep out of the reach of children
- **National regulations:**
- **Technical instructions (air):**

Class	Share in %
NK	54.0

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant R-phrases**
11 Highly flammable.
12 Extremely flammable.
36 Irritating to eyes.
67 Vapours may cause drowsiness and dizziness.
- **Department issuing MSDS:** Department: Regulatory Affairs
- **Contact:** P. Herman