

SAFETY DATA SHEET

Comforms to EU Directive 91/155/EEC, as amended by 2001/58/EC, 2004/73/EC (29ATP)

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

Identification of the substance or preparation

Product name: Cyclus Tools Siliconspray
Use of the: Lubricatnt
Company: Nacházel, s.r.o.
Přátelství 681,
104 00 Praha 10 – Uhřetěves
Czech republic

Emergency phone number Toxicologic inform center (TIS), Na bojišti 1, 128 08 Praha 2
tel.: +420 / 224 919 293
tel.: +420 / 224 915 402
tel.: +420 / 224 914 575

2. Hazards identification

The principal hazards of the product as supplied are:

F+ Extremely flammable
R 12, R
S 2, S 16, S 23, S 46, S 51

See section 11 for more detailed information on health effects and symptoms.

3. Composition / Information on ingredients

Substance / preparation:

Identification No.:		Ingredient name	Koncentration %	Clasification, R, S
CAS:	64742-49-0	Naphta	25-30	T
ES (Einecs):	265-151-9			R-45, 65
Index No.:	649-328-00-1			S-45, 53
CAS:	64742-46-7	Erdoeldestilate	6-10	T
ES (Einecs):	265-148-2			R-45
Index No.:	649-221-00-X			S-45, 53
CAS:	106-97-8	Butan	20-25	F+
ES (Einecs):	203-448-7			R-12
Index No.:	601-004-00-0a			S-16, 9
CAS:	74-98-6	Propan	20-25	F+
ES (Einecs):	200-827-9			R-12
Index No.:	601-003-00-5			S-16, 9
CAS:	75-28-5	Isobutan	5-10	F+
ES (Einecs):	200-857-2			R-12
Index No.:	601-004-00-0b			S-16, 9

See section 16 for the full text of the R-phrases declared above

Occupational exposure limits, if available, are listed in action 8.

4. First aid measure

First aid measures

On contact with eyes:	Check for and remove any contact lenses. In case of contact, immediately flush skin copiously with water for at least 20 minutes while removing contaminated clothing and shoes. Get medical attention occurs.
On skin contact:	Wash with soap and water. Get medical attention if irritation occurs.
Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms appear.
Ingestion:	Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.
Protection of first-aiders:	No action shall be taken involving any personal risk or without suitable training.
Notes to physician	Not available.

5. Fire-fighting measure

Extinguishing media

Suitable:	Use an extinguishing agent suitable for the surrounding fire: carbon dioxide, foam, dry powder or fine water spray. Water can be used to cool fire exposed containers.
Not suitable:	Full water spray.
Hazard during fire fighting:	Pressurised container capable of exploding if heated.
Special protective equipment / procedures:	A self-contained respirator and protective clothing should be worn. Keep containers cool with water spray until well after is out. Determine the need to evacuate or isolate the area according to your local emergency plan.
Hazardous Combustion products:	Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition product: Silica. Carbon oxides and traces of incompletely burned carbon compounds. Formaldehyde. Nitrogen products. Sulphur products.

6. Accidental release measure

Personal precaution:	Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment.
Environmental precaution:	Do not empty into drains. Prevent from spreading or entering into drains, ditches or rivers by using sand, earth or other appropriate barriers.
Methods for cleaning up:	Determine the need to evacuate or isolate the area according to your local emergency plan. Eliminate all possible sources of ignition.

7. Handling and storage

Personal precaution:	General ventilation is required. Local ventilation is required. Do not breathe spray or mist. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition – no smoking. Avoid skin and eye contact. Do not breathe vapour.
Avoid on storage:	Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Store

in flame-proof, well ventilated area.

Specific uses: Refer to technical data sheet available on request.

Packaging material: Steel cans – spray, FE 40

8. Exposure controls / personal protection

Engineering Controls: Ventilation: Ref to Section 7

Exposure controls for hazardous components

Name	CAS-No.	Exposure Limits
Butane	106-97-8	750 ppm Steel 600 ppm TWA 1,810 mg/m ³ Steel 1,450 mg/m ³ TWA
Naphtha (petroleum)	64742-49-0	400 mg/m ³ PEL 1000 mg/m ³ NPK

Personal protection equipment

Respiratory protection: A suitable respiratory must be worn if the product is in any circumstances where an aerosol or mist may be generated, such as during spraying or similar activities.
A full-face mask is recommended.
Recommended Filter type: SL
The choice of a filter type depends on the amount and of chemical being in the workplace. Regarding filter characteristics, contact your respiratory protection supplier.

Hand protection: Chemical protective gloves should be worn: Polyvinyl alcohol (PVA). Silver shield (TM). 4H (TM). Viton (TM). Regarding glove's breakthrough time..., contact your chemical protective glove supplier.

Eye protection: Safety goggles should be worn.

Skin protection: Wear impervious overalls in circumstances where significant skin contact can occur.

Hygiene measures: Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.

Environmental exposure control: Refer to section 6 and 12.

9. Physical and chemical properties

Appearance

Form:	Aerosol
Colour:	Transparent
Odour:	Solvent

Important health, safety and environmental information

Flash point:	0°C
Density:	0,6 g/cm ³
Explosive properties	1 – 6 % Vol.
Viscosity:	250 – 300 cSt
Vapour pressure:	550 mbar at 37,5°C

10. Stability and reactivity

- Stability:** Stable under normal usage conditions.
- Conditions to avoid:** None established.
- Materials to avoid:** Can react with strong oxidising agents.
- Hazardous decomposition product:** Thermal breakdown of this product during fire or very high conditions may evolve the following decomposition product: Silica, Carbon oxide and traces of incompletely burned carbon compounds. Nitrogen product. Sulphur product.

11. Toxicological information

- On contact with eyes:** Slightly irritant.
- On skin contact:** Repeated or prolonged contact may cause de-fatting of the skin, leading to dermatitis.
- If inhaled:** May cause dizziness, drowsiness, confusion, headaches, nausea, and at high concentrations, unconsciousness.
- On ingestion:** Small amounts transferred to the mouth by fingers during use should not injure. Swallowing large amounts may digestive discomfort.

12. Ecological information

Environmental fate and distribution

Organic solvents may evaporate into the atmosphere, where they degrade. The organic solvents in the product are biodegradable.

Ecotoxicity effects

Harmful to aquatic organisms and may cause long-term adverse effects in the aquatic environment.

- Bio-accumulation:** Low potential to bio-accumulate.

Fate and effects in waste water treatment plants

May cause adverse effect on bacteria. If used this product is not expected to reach waste water treatment plants.

13. Disposal considerations

- Product disposal:** Dispose of in accordance with local regulations. According to the European Waste Catalogue. Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with waste disposal authorities.
- Packaging disposal:** Dispose of in accordance with local regulations. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

14. Transport information

Road / Rail (ADR/RID)

UN No.:	UN 1950
Classification Code:	5F
Proper Shipping Name:	Aerosol
Class:	2
Labels:	2.1

See transport IMDG

UN No.	UN 1950
Classification Code:	5F
Proper Shipping Name:	Aerosol
Class:	2.1
Emergency Schedule:	F-D
EmS:	S-U
Remarks:	WHEN THE MATERIALS IS SHIPPED AS A LIMITED QUANTITY, THE CLASS IS 2.

Air transport (IATA)

UN No.	UN 1950
Proper Shipping Name:	Aerosol, Flammable
Class:	2.1
Labels:	Flammable Gas

15. Hazards identification

Labelling according to EEC Directive

Symbols	F+ Extremely flammable
R-phrases	R 12 Extremely flammable
S-phrases	S 2 Keep out of the reach of children S 9 Keep container in a well-ventilated place S 23 Do not breathe spray S 16 Keep away from sources of ignition – no smoking. S 46 If swallowed, seek medical advice immediately and show this container or label S 51 Use only in well-ventilated areas
Other phrases	Do not spray on a naked flame or any incandescent material. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

National legislation / regulations

Ozone depleting chemicals No ozone depleting chemicals are used in manufacture.

Status

EINECS All ingredients listed or exempt.

16. Other information

This product safety data sheet was prepared in compliance with Commission Directive 91/155/EEC, 67/584/EEC and 1999/45/EC as well as their relevant amendments, on the approximation of laws, regulations and administrative provisions relative to the classification, packaging and labelling of dangerous substances and preparations.

It is responsibility of persons in receipt of this Product Safety Data Sheet to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any come in contact with the any defect in the product. If the recipient subsequently produces a formulation containing the Star Collection Product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from the Nacházel Product Safety Data Sheet to their own Product Safety Data Sheet in compliance with Commission Directive 1999/45/EC.

All information and instructions provided in this Safety Data Sheet (SDS) are based on the current state of scientific and technical knowledge at the date indicated on the present SDS. Nacházel shall not be held responsible for any defect in the product covered by this SDS, should the existence of such defect not be detectable considering the current state of scientific and technical knowledge.

As stated above, this Safety Data Sheet has been prepared in compliance with applicable European law. If you purchase this material outside Europe, where compliance laws may differ, you should receive from your local Nacházel supplier a SDS applicable to the country in which the product is sold and intended to be used. Please note that the appearance and content of the SDS may vary – even for the same product – between different countries, reflecting the different compliance requirements.