



Safety data sheet

According to 91/155 EEC

Printing date 27.08.2015

Revision: 27.08.2015

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

- **Product identifier**
- **Trade name:** **BRIGHT SPARK**
- **Article number:** 388
- **Application of the substance / the preparation**
Electrical circuit and contact cleaner. Quick drying removes moisture.
- **Details of the supplier of the safety data sheet**
- **Further information obtainable from:**
WYNN OIL SOUTH AFRICA (PTY) LTD
22 Mopedi Road,
Sebenza, Edenvale
1609
Gauteng
South Africa
Tel: 2711 609 3708
Fax: 2711 609 2218
technical@wynns.co.za
- **Emergency telephone number:** Tel: 2711 609 3708

2 Composition/information on ingredients

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

Dangerous components:

127-18-4	Tetrachloroethylene	N R51/53 H351; H411	70-90%
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- **Additional information:** For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
 N; Dangerous for the environment
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **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.
- **Classification system:**
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
- **Label elements**
- **Labelling according to EU guidelines:**
Observe the general safety regulations when handling chemicals.
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
- **Code letter and hazard designation of product:**
N Dangerous for the environment

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- **Hazard-determining components of labelling:**
Tetrachloroethylene
- **Risk phrases:**
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **Safety phrases:**
2 Keep out of the reach of children.
- **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.

4 First aid measures

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.

5 Firefighting measures

- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:**
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:** Absorb liquid components with liquid-binding material.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling** No special precautions are necessary if used correctly.
- **Information about fire - and explosion protection:**
Do not spray onto a naked flame or any incandescent material.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Observe official regulations on storing packagings with pressurized containers.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.

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· **Specific end use(s)** No further relevant information available.

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:**

127-18-4 Tetrachloroethylene

OEL (South Africa)	Short-term value: 678 mg/m ³ , 100 ppm
	Long-term value: 170 mg/m ³ , 25 ppm

· **Additional information:** The lists valid during the making were used as basis.· **Personal protective equipment:**· **General protective and hygienic measures:** Wash hands before breaks and at the end of work.· **Respiratory protection:** Not required.· **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **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.

· **Eye protection:** Not required.

9 Physical and chemical properties

· **General Information**· **Appearance:**

Form:	Aerosol
Colour:	As per product specification

· **Odour:** Characteristic· **Odour threshold:** Not determined.· **pH-value:** Not determined.· **Change in condition**

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	121 °C

· **Flash point:** Not applicable, as aerosol.· **Flammability (solid, gaseous):** Not applicable.· **Ignition temperature:**

Decomposition temperature:	Not determined.
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· **Self-igniting:** Product is not selfigniting.· **Danger of explosion:** Product does not present an explosion hazard.

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· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapour pressure at 20 °C:	19 hPa
· Density at 20 °C:	0.85 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	84.0 %
VOC (EC)	84.00 %
· Other information	No further relevant information available.

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Acute toxicity:**
 - **LD/LC50 values relevant for classification:**
- | | | |
|------------------------------|------|------------------|
| 127-18-4 Tetrachloroethylene | | |
| Oral | LD50 | 2629 mg/kg (rat) |
- **Primary irritant effect:**
 - **on the skin:** No irritant effect.
 - **on the eye:** No irritating effect.
 - **Sensitization:** No sensitizing effects known.

12 Ecological information

- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Toxic for fish

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· **Additional ecological information:**

· **General notes:**

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms

13 Disposal considerations

· **Waste treatment methods**

· **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

· **UN-Number**

-

· **ADR, IMDG, IATA**

UN1950

· **UN proper shipping name**

-

· **ADR**

1950 AEROSOLS

· **IMDG**

AEROSOLS (TETRACHLOROETHYLENE), MARINE POLLUTANT

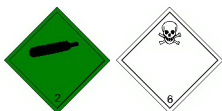
· **IATA**

AEROSOLS, non-flammable, containing substances in Division 6.1,
Packing Group I or II

· **Transport hazard class(es)**

-

· **ADR**



· **Class**

2 5T Gases.

· **Label**

2.2+6.1

· **IMDG**



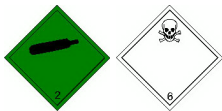
· **Class**

2.2

· **Label**

2.2+6.1

· **IATA**



· **Class**

2.2

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· Label	2.2+6.1
· Packing group	-
· ADR, IMDG, IATA	Void
· Environmental hazards:	Product contains environmentally hazardous substances: Tetrachloroethylene
· Marine pollutant:	Yes Symbol (fish and tree)
· Special precautions for user	Warning: Gases.
· Danger code (Kemler):	-
· EMS Number:	F-D,S-U
· Segregation groups	Liquid halogenated hydrocarbons
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	120 ml
· Transport category	1
· Tunnel restriction code	D

15 Regulatory information

- **Labelling according to EU guidelines:**
Observe the general safety regulations when handling chemicals.
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
- **Code letter and hazard designation of product:**
N Dangerous for the environment
- **Hazard-determining components of labelling:**
Tetrachloroethylene
- **Risk phrases:**
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **Safety phrases:**
2 Keep out of the reach of children.
- **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.
- **National regulations:**

Class	Share in %
I	84.0

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.

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· Relevant phrases*H351 Suspected of causing cancer.**H411 Toxic to aquatic life with long lasting effects.**R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.***· Department issuing MSDS:***WYNN OIL SOUTH AFRICA (PTY) LTD**22 Mopedi Road**Sebenza, Edenvale**1609**Gauteng**South Africa**Tel: 2711 609 3708**Fax :2711 609 2218**technical@wynns.co.za***· Contact: 2711 609 3708****· * Data compared to the previous version altered.**

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