

Marking Spray 500ml

SAFETY DATA SHEET

according to 1907/2006/EC, Article 31



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

Product identifier

Trade name: Marking Spray 500ml

Article number: 5194.

Application of the substance / the preparation Marking spray for wood and forestry

Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Stanger Produktions- und Vertriebs GmbH & Co KG

Ferdinand-Porsche-Straße 2

D-32339 Espelkamp

Further information obtainable from:

Abteilung Produktsicherheit

info@stanger.de

Emergency telephone number: + 49 57 43 93 07 - 0

2 Hazards identification

Classification of the substance or mixture

Classification according to Directive 67/548/EEC or Directive 1999/45/EC



F+; Extremely flammable

R12: Extremely flammable.

R52/53-67: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Vapours may cause drowsiness and dizziness.

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:

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.

52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

67 Vapours may cause drowsiness and dizziness.

Safety phrases:

2 Keep out of the reach of children.

16 Keep away from sources of ignition - No smoking.

23 Do not breathe aerosol.

29 Do not empty into drains.

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.
- Classification in accordance with Directive 75/324/EEC: Extremely flammable

3 Composition/information on ingredients

Chemical characterization: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

CAS: 106-97-8 EINECS: 203-448-7	butane F+ R12	<25%
CAS: 74-98-6 EINECS: 200-827-9	propane F+ R12	<25%
CAS: 64742-49-0 EINECS: 265-151-9	Naphtha (petroleum), hydrotreated light Xn R65; Xi R38; F R11; N R51/53 R67	<20%
CAS: 67-64-1 EINECS: 200-662-2	acetone Xi R36; F R11 R66-67	<20%
CAS: 67-63-0 EINECS: 200-661-7	2-Propanol Xi R36; F R11 R67	<5%

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

4 First aid measures

Description of 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.

Information for doctor:

Most important symptoms and effects, both acute and delayed. No further relevant information available.

Indication of any immediate medical attention and special treatment needed.

No further relevant information available.

5 Firefighting measures

Extinguishing media

Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents: Water with full jet
Special hazards arising from the substance or mixture No further relevant information available.

Advice for firefighters

Protective equipment: Wear self-contained respiratory protective device.

Additional information Contaminated extinguishing water according to official regulations.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures :

- Wear protective equipment. Keep unprotected persons away.

Environmental precautions:

- Do not allow product to reach sewage system or any water course.
- 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:

- Ensure adequate ventilation.

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 Ensure good ventilation/exhaustion at the workplace.

Information about fire - and explosion protection:

- Do not spray onto a naked flame or any incandescent material.
- Keep ignition sources away - Do not smoke.
- 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.

Conditions for safe storage, including any incompatibilities

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:

- Keep container tightly sealed.
- Store in cool, dry conditions in well sealed receptacles.
- Protect from heat and direct sunlight.

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.

Control parameters

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 Carc (if more than 0.1% of buta-1,3-diene)
67-64-1 acetone	
WEL	Short-term value: 3620 mg/m ³ , 1500 ppm Long-term value: 1210 mg/m ³ , 500 ppm
7727-43-7 Bariumsulfat	
WEL	Long-term value: 10* 4** mg/m ³ *inhalable dust **respirable dust
67-63-0 2-Propanol	
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.

Exposure controls

Personal protective equipment:

General protective and hygienic measures:

- Wash hands before breaks and at the end of work.
- Do not inhale gases / fumes / aerosols.
- Respiratory protection: Use suitable respiratory protective device in case of insufficient ventilation.

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: Tightly sealed goggles

9 Physical and chemical properties

Information on basic physical and chemical properties

General Information:

Appearance:

Form: Aerosol

Colour: Various colours

Odour: Characteristic

Change in condition: Boiling point/Boiling range: < 0°C

Flash point: < 0°C

Ignition temperature: 365°C

Self-igniting: Product is not selfigniting.

Danger of explosion: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

Explosion limits:

Lower: 1.5 Vol %

Upper: 13.0 Vol %

Vapour pressure at 20°C: 8300 hPa

Density: Not determined.

Solubility in / Miscibility with water: Not miscible or difficult to mix.

10 Stability and reactivity

Reactivity

Chemical stability

Thermal decomposition / conditions to be avoided:

- Heating, open flame, ignition sources
- Increased pressure leads to bursting

Possibility of hazardous reactions: No dangerous reactions known.

Conditions to avoid: No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

Information on toxicological effects

Acute toxicity:

Primary irritant effect:

- on the skin: No irritant effect.
- on the eye: No irritating effect.

Sensitization: No sensitizing effects known.

12 Ecological information

Toxicity

Acquatic 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.

Mobility in soil No further relevant information available.

Ecotoxic effects:

Remark: Harmful to fish

Additional ecological information:

General notes:

- Water hazard class 2 (German Regulation) (Self-assessment): hazardous for

water

- Do not allow product to reach ground water, water course or sewage system.
- Danger to drinking water if even small quantities leak into the ground.
- Harmful to 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.

European waste catalogue

08 01 11* waste paint and varnish containing organic solvents or other dangerous substances

15 01 10* packaging containing residues of or contaminated by dangerous substances

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
UN proper shipping name: 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
UN/ID Number: 1950
Label: 2.1
Packaging group: -
Proper shipping name: AEROSOLS
Special precautions for user Warning: Gases.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Not applicable.

15 Regulatory information

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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 phrases

R11 Highly flammable.
R12 Extremely flammable.
R36 Irritating to eyes.
R38 Irritating to skin.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65 Harmful: may cause lung damage if swallowed.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.

Department issuing MSDS: Abteilung Produktsicherheit

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