


Date of issue : 23.03.2011 Replaces Data Sheet of : 06.07.2004  
 \*\*\* alterations as compared to previous version; n.ap. = not applicable; n.av. = not available

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1 **Product identifier**  
**Trade Name :** Spray for maintenance and care for wood processing machines  
**Article No. :** 148  
**Preparation No. :** n.av.  
**Registration No. :** n.av.
- 1.2 **Relevant identified uses of the substance or mixture and uses advised against**  
 Spray for maintenance and care for wood processing machines
- 1.3 **Details of the supplier of the safety data sheet**
- 1.3.1 **Address of the Company / Supplier :**  
 Metabowerke GmbH & Co., D - 72622 Nürtingen  
 Telephone : 0049 (0)7022 72 0 Telefax : 0049 (0)7022 722714
- 1.4 **Emergency telephone number**  
 Emergency - Telephone of Company / Undertaking Information Centre Specialising in Symptoms of Poisoning  
 Telephone : 05205-91 49-0 (08:30 - 16:30) Telephone : +49 - 761 - 19 240

## SECTION 2: Hazards identification

- 2.1 **Classification of the substance or mixture**  
 Extremely flammable
- 2.2 **Label elements**  
 Classification according to EEC - Regulations : Yes.  
 Applicable Exemptions : No.  
 Hazard Identification : Extremely flammable  
 Component(s) :  
 Hazard Symbol(s) : 
- R - Phrases :**  
 R 12: Extremely flammable.  
 R 18: In use, may form flammable/explosive vapour-air mixture.
- S - Phrases :**  
 S 45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- Additional Markings :  
 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.  
 The above mentioned labelling is valid for distribution to private consumer.
- 2.3 **Other hazards**  
 Materials should be tested for resistance. May soften plastics. May form explosive vapour-air mixture. raising overall contamination.

## SECTION 3: Composition/information on ingredients

- 3.1 **Substances**  
**Chemical Characterisation :**  
 Aerosol
- 3.2 **Mixtures**  
**Dangerous Ingredients :**
- | CAS - No.  | Index - No.  | EEC - No. | Material   | m% - range | Symbol | R / H - phrases |
|------------|--------------|-----------|--|------------|--------|-----------------|
| 74-98-6    | 601-003-00-5 | 200-827-9 | Propan   | 25 - 35%   | F+     | R 12            |
| 106-97-8   | 601-004-00-0 | 203-448-7 | Butan  | 25 - 35%   | F+     | R 12            |
| 64742-47-8 | 649-422-00-2 | 265-149-8 | Destillate (Erdöl), mit Wasserstoff behandelte leichte; Kerosin - nicht spezifiziert | 30 - 35%   | Xn     | R 65-66         |

## SECTION 4: First aid measures

- 4.1 **Description of first aid measures**
- 4.1.1 **Inhalation :**  
 Remove from danger area and provide for fresh air. In the event of symptoms occurring, seek medical treatment.
- 4.1.2 **Skin Contact :**  
 Wash with soap and water. In the event of symptoms occurring, seek medical treatment.
- 4.1.3 **Eye Contact :**  
 Flush eyes out immediately with large amounts of water with eye lids lifted. In the event of symptoms occurring, seek medical treatment.

Date of issue : 23.03.2011 Replaces Data Sheet of : 06.07.2004  
 "" alterations as compared to previous version; n.ap. = not applicable; n.av. = not available

- 4.1.4 **Ingestion :**  
n.ap.
- 4.2 **Most important symptoms and effects, both acute and delayed**  
n.av.
- 4.3 **Indication of any immediate medical attention and special treatment needed**  
Symptomatic treatment.

**SECTION 5: Firefighting measures**

- 5.1 **Extinguishing media**
- 5.1.1 **Suitable Extinguishing Media :**  
Foam, dry chemicals, CO2.
- 5.1.2 **Extinguishing Media to Avoid :**  
None.
- 5.2 **Special hazards arising from the substance or mixture**  
In case of fire, product may form: Organic crackproducts and carbon oxides.
- 5.3 **Advice for firefighters**
- 5.3.1 **Special Protective Equipment :**  
Wear positive pressure self-contained breathing apparatus. Wear full protective clothing.
- 5.3.2 **Additional Information :**  
Cool containers at risk with water spray jet.

**SECTION 6: Accidental release measures**

- 6.1 **Personal precautions, protective equipment and emergency procedures**  
Provide sufficient ventilation. Keep away from sources of ignition.
- 6.2 **Environmental precautions**  
Do not allow to enter drainage. Inform responsible authorities after accidental conduction of larger quantities. Allow to vaporise Take up residues with suitable absorbent materials.
- 6.3 **Methods and material for containment and cleaning up**  
Packaging that cannot be cleaned should be disposed of as for product
- 6.4 **Reference to other sections**  
None.

**SECTION 7: Handling and storage**

- 7.1 **Precautions for safe handling**
- 7.1.1 **Precautions for Safe Handling :**  
Application only when sufficient ventilated. Take precautionary measures against static discharges.
- 7.1.2 **Precautions in Case of Fire and Explosion :**  
Vapours may form an explosive mixture with air. Keep away from sources of ignition, do not smoke.
- 7.2 **Conditions for safe storage, including any incompatibilities**
- 7.2.1 **Storage Instructions :**  
Provide sufficient ventilation.
- 7.2.2 **Store away from :**  
Store away from oxidizers.
- 7.2.3 **Further Information on Storage Conditions :**  
Protect container from warming up and direct sunlight.
- 7.3 **Specific end use(s)**  
n.av.

**SECTION 8: Exposure controls/personal protection**

- 8.1 **Control parameters**

<b>Material</b>	<b>Limit Value</b>
Propan	AGW: 1000 ppm   1800 mg/m <sup>3</sup>
Butan	AGW: 1000 ppm   2400 mg/m <sup>3</sup> / II/465

- 8.2 **Exposure controls**
- 8.2.1 **Appropriate engineering controls**  
Do not inhale aerosols. When using do not eat, drink or smoke. Remove contaminated, saturated clothing immediately. Wash hands before breaks and after work.
- 8.2.2 **Individual protection measures**
- 8.2.2a **Respiratory Protection :** If ventilation is insufficient, wear respiratory protection
- 8.2.2b **Hand Protection :** Gloves (solvent-resistant) (Viton, PVC; Permeationszeit > 6h)
- 8.2.2c **Eye Protection :** Goggles
- 8.2.2d **Skin Protection :** Light protective clothing
- 8.2.2e **Further Information :**
- 8.2.3 **Environmental exposure controls :**  
n.av.

**SECTION 9: Physical and chemical properties**

Date of issue : 23.03.2011 Replaces Data Sheet of : 06.07.2004  
 \*\*\* alterations as compared to previous version; n.ap. = not applicable; n.av. = not available

**9.1 Information on basic physical and chemical properties**

9.1.1	<b>Form :</b> Aerosol	<b>Colour :</b> colourless	<b>Odour :</b> characteristic
9.1.2	pH-value, undiluted :	n.ap., pH-value, 1% aqueous solution : n.ap.	
9.1.3	Boiling point / Boiling - range (°C) :	< 70, Melting point / Melting range (°C) : n.av.	
9.1.4	Flash point (°C, c.c.) :	< 21,	
9.1.5	Flammability (EEC A10/A13) :	n.av.	
9.1.6	Ignition temperature (°C) :	n.av.	
9.1.7	Autoflammability (EEC A16) :	n.ap.	
9.1.8	Oxidising properties :	None.	
9.1.9	Explosion hazard :	n.av.	
9.1.10	Explosion limits (Vol.%) lower :	n.av., upper : n.av.	
9.1.11	Vapour pressure :	n.av.	
9.1.12	Density (g/ml) :	n.av.	
9.1.13	Solubility (in Water) :	miscible	Soluble in : soluble in most organic solvents.
9.1.14	Partition coefficient, n-Octanol/Water :	n.av.	
9.1.15	Viscosity :	n.av.	
9.1.16	Solvent separation test :	n.ap.	
9.1.17	Solvent content (m %) :	n.ap.	
9.2	<b>Other information</b>		
9.2.1	Thermal decomposition (°C) :	n.ap.	
9.2.2	Vapour density (Air = 1) :	n.av.	
9.2.3	Evaporation rate :	n.av.	

**SECTION 10: Stability and reactivity**

10.1	<b>Reactivity</b> Because of the high vapour pressure, containers are liable to burst if temperature rises.
10.2	<b>Chemical stability</b> Stable at normal temperature.
10.3	<b>Possibility of hazardous reactions</b> No hazardous reactions known.
10.4	<b>Conditions to avoid</b> Sparks, flames, static charge Formation of explosive gas / air mixtures.
10.5	<b>Incompatible materials</b> Reactions with strong oxidizing agents.
10.6	<b>Hazardous decomposition products</b> No hazardous decomposition products known.

**SECTION 11: Toxicological information**

11.1	<b>Information on toxicological effects</b>		
11.1.1	<b>Acute Health Effects :</b>		
	Inhalation, LC <sub>50</sub> rat, (mg/l/4h) :	n.av.	
	Ingestion, LD <sub>50</sub> rat, (mg/kg) :	n.av.	
	Skin - contact, LD <sub>50</sub> rat, (mg/kg) :	n.av.	
	Irritation (to skin / eye) :	Mildly irritating - not to be labelled.	
	Sensitisation :	n.av.	
11.1.2	<b>Subacute / Chronic Toxicity :</b>		
	Carcinogenicity :	n.av.	
	Mutagenicity :	n.av.	
	Teratogenicity :	n.av.	
	Narcotic Effects :	Causes disorders of the central nervous system and can cause headache, respiratory difficulties or unconsciousness. Inhalation of solvent-vapours in high concentration causes narcotic effects.	
11.1.3	<b>Practical Experience</b>		
11.1.3.1	Observations relevant for classification :	None.	
11.1.3.2	Further Observations :	Frequent or permanent contact to skin may lead to irritation or dermatitis.	
11.1.4	<b>General Remarks :</b>	Classification of the preparation has been done by calculation in accordance with EEC directives.	

**SECTION 12: Ecological information**

12.1	<b>Toxicity</b> n.av.
12.2	<b>Persistence and degradability</b>


Date of issue : 23.03.2011 Replaces Data Sheet of : 06.07.2004  
 \*\*\* alterations as compared to previous version; n.ap. = not applicable; n.av. = not available

- The product is biodegradable. The product is highly volatile and can be largely eliminated from the water by stripping.
- 12.3 **Bioaccumulative potential**  
n.av.
  - 12.4 **Mobility in soil**  
n.av.
  - 12.5 **Results of PBT and vPvB assessment**  
n.av.
  - 12.6 **Other adverse effects**
  - 12.6.1 COD-Value, mg/g : n.av.
  - 12.6.2 BOD<sub>5</sub>-Value, mg/g : n.av.
  - 12.6.3 AOX-Remarks : Not relevant
  - 12.6.4 Significant Components : None.
  - 12.6.5 Other adverse effects : None.

**SECTION 13: Disposal considerations**

- 13.1 **Waste treatment methods**
- 13.1.1 Recommendation : D 10 / R 1 Waste - Code - No. : 16 05 05  
In addition comply with the regional authorities.
- 13.2 **Contaminated Packaging**
- 13.2.1 Recommendation : Wash with suitable cleaner. Otherwise as described under Residues. Packaging that cannot be cleaned should be disposed of as for product
- 13.2.2 Safe Handling : As described under Residues.

**SECTION 14: Transport information**

	ADR	IMDG	IATA
14.1 <b>UN number</b>	1950	1950	1950
14.2 <b>UN proper shipping name</b>	UN 1950 Aerosols, flammable	Aerosols, flammable	Aerosols, flammable
14.3 <b>Transport hazard class(es)</b>	2 	2 Flammable gas	2.1 Flammable gas
14.4 <b>Packing group</b>	n.ap.	n.ap.	n.ap.
14.5 <b>Environmental hazards</b>		No.	
14.6 <b>Special precautions for user</b>	Transport-category : 2 Classification Code : 5F Hazard - No.: n.ap. LQ: 1 L	F-D, S-U	Packing Instructions (Passenger) 203 Packing Instructions (Cargo) 203
14.7 <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>			

**SECTION 15: Regulatory information**

- 15.1 **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- 15.1.1 **VOC-Content: n.av.**

**SECTION 16: Other information**

- R 12: Extremely flammable.
- R 65: Harmful: may cause lung damage if swallowed.
- R 66: Repeated exposure may cause skin dryness or cracking.

The statements in this Material Safety Data Sheet were made to the best of our knowledge and are

Date of issue : 23.03.2011 Replaces Data Sheet of : 06.07.2004

\*\*\* alterations as compared to previous version; n.ap. = not applicable; n.av. = not available

as accurate as possible. They are given for information only. They do not constitute a contractual guarantee of a product's properties. They must neither be altered nor transferred to other products.