	SAFETY INFORMATION SHEET	Date of issue:30.11.01 Date of revision:12.12.01
	Product: Bending Spray 150ml-400ml	Druckdatum:

1. Composition/Identification of the responsible on the market

Product name: Bending Spray
 Number 25115 / 25120

2. Composition/Product identification:

Chemical characterization Solvent mixtures with active agents and highly flammable propellants

Hazardous ingredients:

name of the substance	classification	[%-Wt]	CAS-No.:
Isobutane	F+ extremely flammable	25-60%	75-28-5
Propane liquefied	F+ extremely flammable	5-10%	74-98-6

3. Dangers identification:

Hazards identification

R 12 extremely flammable pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C.

4. FIRST AID INSTRUCTIONS.

General indications:
 Eyes contact: Immediately wash with plenty of water. Seek a specialist as soon as possible.
 After skin contact: Instantly wash with water and soap and rinse thoroughly.
 Inhalation: Supply fresh air. Consult a doctor in case of symptoms.
 After swallowing: Do not induce vomiting. Instantly call for medical help

5. FIRE-FIGHTING MEASURES


Special exposure hazards in a fire Can form explosive gas-air mixtures.
 Recommendations: The incomplete combustion produces, in particular, toxic CO whose inhalation is dangerous. It is dangerous to extinguish a flame if you are not in a position to stop the loss completely.
Suitable extinguishing agents: Suitable: CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol resistant foam
 Unsuitable: water with a full water jet
Special protective equipment for fire-fighters: Do not inhale explosion gases or combustion gases.
Additional information: Cool endangered containers with water spray jet.

6. MEASURES IN CASE OF ACCIDENTAL OUTLOW

Personal precautions:
 Ensure adequate ventilation
Environmental precautions:
 do not allow product to reach sewage system or water bodies
Methods for cleaning/taking up:
 ensure adequate ventilation.
 Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

7. HANDLING AND STORAGE

Handling: Ensure good ventilation / exhaustion at workplace.
 Keep away from heat and direct sunlight.
Advice on protection against fire and explosion: Keep ignition sources away-Do not smoke.
 Keep away from heat. Do not spray on flames or red-hot objects.
Requirements for storage rooms and vessels: Observe official regulations on storing packing with pressurised containers.
 Best storage temperatures 16-23°C

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8. EXPOSURE CONTROL / INDIVIDUAL PROTECTION

Precautionary measures of technical nature

Personal protective equipment: Wash hands during breaks and the end of work
 Breathing equipment: Not necessary if room is well ventilated
 Hands protection: Not required
 Eyes protection: Safety glasses
 Skin protection: Suitable protective clothing

Components with critical values that require monitoring at the workplace:	Name of substance	CAS- Nr.	[%-Wt]	MAK- Value:
	Isobutane	75-28-5	25-60%	2350mg/m ³ ; 1000ml/ m ³
	Propane liquefied	74-98-6	5-10%	1800mg/ m ³ ; 1000ml/ m ³

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state

Properties:

Shape: aerosol
 Colour: light brown
 Smell: characteristic
 melting point/melting range: n.a.
 boiling point/boiling range: n.a.
 Flash point: n.a.
 Ignition point: propellant >230°C
 Self-inflammability: Product is not self igniting
 Explosion hazard: Product is not explosive. However formation of explosive air / steam mixtures is possible
 Explosion limit: applicable for the propellant
 Lower: 1,7 Vol %
 Upper: 10,9 Vol %
 stream pressure (20°C): 3000 mbar
 Density (20°C): not determined
 Water solubility: not miscible or difficult to mix

10. STABILITY AND REAKTIVITY

Thermal decomposition No decomposition if used according to specifications

Conditions to be avoided: None

Substance to be avoided: Avoid contact with strong oxidizers

Hazardous decomposition products: No dangerous decomposition products known

Dangerous reactions: Increasing inside pressure due warming up. Danger of bursting by overheating. Spraying against flames or incandescent objects may cause hazardous decomposition products.

11. TOXICOLOGICAL INFORMATION

Primary irritation effect:

On the skin: no irritating affect

On the eye: contact on the eyes may cause irritant effects.

Sensitisation: no sensitizing affects known.

12. ECOLOGICAL INFORMATION

General notes:

WHC 2 (self assessment) hazardous for water

Do not allow product to reach ground water, water bodies or sewage system.


13. CONSIDERATIONS CONCERNING DISPOSAL

Product: Must not dispose of with household garbage

Recommendation:

Uncleaned packaging Disposal must be made according to the official regulations

Refillable bottles: steel

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14. Information on transport

Land transport:

ADR/GGVS/RID/GGVE	class 2, 5F, ADR.
Description:	Gases that are compressed, liquefied or dissolved under pressure
UN- Number:	1950
Designation of goods:	Aerosols
Remarks:	Transport according to RN 2201a

Land transport:

ADR/GGVS/RID/GGVE	class 2, 5F, ADR.
Description:	Gases that are compressed, liquefied or dissolved under pressure
UN- Number:	1950
Designation of goods:	Aerosols
Remarks:	Transport according to RN 2201a

Sea transport:

UN-No.:	1950
IMDG/GGVSee	class: 9
Page:	9022
EmS:	2 – 13
MFAG	310
Marine pollutant	no
technical name:	Aérosols

15. REGULATIONS INFORMATION

Identification according to EC-Regulations

F+; R12

Hazard designation component for labelling:

Symbols: F+ extremely flammable

R-Sets: 12 Extremely flammable

Special designation of certain preparation:

Pressurised containers. Protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray into a naked flame or any incandescent object. Keep away from sources of ignition.

No smoking. Keep out of the reach of children. Without adequate ventilation formation of explosive mixtures may occur.

National regulation:

Classification according Vbf Void

Technical instructions (air):

Class Share in %	III	5,0
Water hazard class (WHC):	WHC 2	(self assessment): hazardous for water

16. OTHER INFORMATION

All information is based on our present state of knowledge. The material safety data sheet is designed to inform of the essential requirements of safety and correct handling of the product. However, it shouldn't constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.