



# SAFETY DATA SHEET

according to WHMIS 2015 and ANSI Z400.1-2010

Revision date: 5/Aug/2016

Version: 3

Language: en-CA,US

Date of print: 11/Aug/2016

## Brake Cleaner Spray

Material number 112030

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### 1. Product and company identification

#### Product identifier

Trade name: Brake Cleaner Spray

#### Relevant identified uses of the substance or mixture and uses advised against

General use: Technical aerosol  
Reserved for industrial and professional use.

#### Details of the supplier of the safety data sheet

Company name: WEICON Inc.  
Street/POB-No.: 20 Steckle Place, Unit 20  
Postal Code, city: Kitchener, Ontario N2E 2C3, CA  
WWW: www.weicon.ca  
E-mail: info@weicon.ca  
Telephone: +1-519-896-5252  
Telefax: +1-519-896-5254  
Dept. responsible for information:  
Product-Safety-Department  
Telephone: +49(0)251 / 9322 - 0, Email: msds@weicon.de

#### Emergency phone number

**EMERGENCY CONTACT – Canada (24h): Tel: ++1 866 928 0789 (Toll free)**

**Transport:**

**TRANSPORT EMERGENCY CONTACT - Canada (24h): Tel: ++1 866 928 0789 (Toll free)**

### 2. Hazards identification

#### Emergency overview

Appearance: Form: Aerosol, liquid  
Color: colorless  
Odor: characteristic  
Classification: Flammable Aerosol 1; Compressed Gas; Skin Irritation 2; Sensitization - skin 1; Specific Target Organ Toxicity (Single Exposure) 3; Aquatic toxicity - chronic 2;

Hazard symbols:



Signal word:

**Danger**

Hazard statements:

Extremely flammable aerosol.  
Contains gas under pressure; may explode if heated.  
Causes skin irritation.  
May cause an allergic skin reaction.  
May cause drowsiness or dizziness.  
Toxic to aquatic life with long lasting effects.



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Precautionary statements: Keep out of reach of children.  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Do not spray on an open flame or other ignition source.  
Do not pierce or burn, even after use.  
Avoid breathing dust/fume/gas/mist/vapors/spray.  
Wash hands and face thoroughly after handling.  
Use only outdoors or in a well-ventilated area.  
Contaminated work clothing should not be allowed out of the workplace.  
Avoid release to the environment.  
Wear protective gloves/protective clothing/eye protection.  
IF ON SKIN: Wash with plenty of water/soap.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
Call a POISON CENTER/doctor if you feel unwell.  
Specific treatment (see ' First aid ' on this label).  
If skin irritation or rash occurs: Get medical advice/attention.  
Take off contaminated clothing.  
Collect spillage.  
Store in a well-ventilated place. Keep container tightly closed.  
Store locked up.  
Protect from sunlight. Store in a well-ventilated place.  
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.  
Dispose of contents/container to hazardous or special waste collection point.

### Regulatory status

This material is considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200) and SIMDUT in Canada.

### Hazards not otherwise classified

Higher doses may have a narcotic effect. Inhaling can lead to irritations of the respiratory tract and mucous membrane.  
Potentially explosive mixtures may form if adequate ventilation is not provided.  
see section 11: Toxicological information

## 3. Composition / Information on ingredients

Chemical characterisation: Preparation of active ingredients with propellant

Relevant ingredients:

CAS No.	Designation	Content	Classification
CAS 64742-49-0	Naphtha (petroleum), hydrotreated light	50 - 75 %	Flammable Liquid 2. Skin Irritation 2. Specific Target Organ Toxicity (Single Exposure) 3. Aspiration Toxicity 1. Aquatic toxicity - chronic 2.
CAS 109-66-0	n-Pentane	10 - 25 %	Flammable Liquid 2. Specific Target Organ Toxicity (Single Exposure) 3. Aspiration Toxicity 1. Aquatic toxicity - chronic 2.
CAS 64-17-5	Ethanol	3 - 10 %	Flammable Liquid 2.
CAS 5989-27-5	(R)-p-Mentha-1,8-diene	< 1 %	Flammable Liquid 3. Skin Irritation 2. Sensitization - skin 1. Aquatic toxicity - acute 1. Aquatic toxicity - chronic 1.
CAS 106-97-8	Butane	3 - 10 %	Flammable Gas 1. Compressed Gas.
CAS 74-98-6	Propane	3 - 10 %	Flammable Gas 1. Compressed Gas.



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Additional information: Naphtha (petroleum), hydrotreated light, < 0,1% benzene  
< 5% perfumes (D-Limonene); > 30% aliphatic hydrocarbons

### 4. First aid measures

General information: Take off immediately all contaminated clothing and wash it before reuse.

In case of inhalation: Move victim to fresh air, put at rest and loosen restrictive clothing.  
Seek medical attention.

Following skin contact: After contact with skin, wash immediately with soap and plenty of water. Consult a doctor if skin irritation persists.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist.

After swallowing: Immediately get medical attention. Do not induce vomiting. Never give anything by mouth to an unconscious person.

#### Most important symptoms and effects, both acute and delayed

Causes skin irritation. May cause drowsiness or dizziness. May cause an allergic skin reaction.  
Inhalation causes narcotic effects/intoxication. Dizziness, fatigue, headache. May cause respiratory irritation.

#### Information to physician

Treat symptomatically.

### 5. Fire fighting measures

Flash point/flash point range: -97 °C

Auto-ignition temperature: not self-igniting

Suitable extinguishing media: Alcohol resistant foam, extinguishing powder, carbon dioxide, water fog.

Extinguishing media which must not be used for safety reasons: High power water jet

#### Specific hazards arising from the chemical

Extremely flammable aerosol.  
Contains gas under pressure; may explode if heated. Cool exposed containers with water spray.  
May form dangerous gases and vapours in case of fire. carbon monoxide and carbon dioxide.  
Potentially explosive vapor/air mixtures may form.

Protective equipment and precautions for firefighters: Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.

Additional information: Cool endangered containers with water jetspray. Do not allow fire water to penetrate into surface or ground water.



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### 6. Accidental release measures

- Personal precautions:** Provide adequate ventilation. Do not breathe gas/vapor/spray. Avoid contact with the substance. In case of leakage, eliminate all ignition sources. Wear appropriate protective equipment. Keep unprotected people away. Do not open or incinerate, even when empty. Do not spray into flames or on incandescent objects. Be aware that gases can spread at ground level (heavier than air) and pay attention to the wind direction.
- Environmental precautions:** Do not allow to enter into ground-water, surface water or drains. In case of release, notify competent authorities. Danger of explosion!
- Methods for clean-up:** Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Beware of reignition. Thoroughly clean surrounding area.
- Additional information:** Use explosion-proof equipment and non-sparking tools/utensils.

### 7. Handling and storage

#### Handling

- Advices on safe handling:** Provide adequate ventilation, and local exhaust as needed. Do not breathe gas/vapor/spray. Avoid contact with skin and eyes. Wear appropriate protective equipment. Keep unprotected people away. Guarantee sufficient ventilation during and after use, in order to prevent vapour accumulation. Take off immediately all contaminated clothing and wash it before reuse.

- Precautions against fire and explosion:** Container under pressure. Do not open or incinerate, even when empty. Do not spray into flames or on incandescent objects. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Use only explosion-protected equipment/instruments. Do not weld. In partially filled containers explosive mixtures may form. Vapors may form explosive mixtures with air.

#### Storage

- Requirements for storerooms and containers:** Keep container tightly closed and in a well-ventilated place. Keep container dry. Keep only in the original container. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store containers in upright position.
- Hints on joint storage:** Do not store together with combustible or self-igniting materials or any highly flammable solids. Keep away from food, drink and animal feedingstuffs.



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## 8. Exposure controls / personal protection

### Exposure guidelines

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
109-66-0	n-Pentane	Canada, Québec: VEMP NIOSH: Ceiling USA: NIOSH: TWA	350 mg/m <sup>3</sup> ; 120 ppm 1800 mg/m <sup>3</sup> ; 610 ppm 350 mg/m <sup>3</sup> ; 120 ppm
64-17-5	Ethanol	Canada, Alberta: OEL 8 hour Canada, BC: OEL STEL Canada, Québec: VEMP USA: ACGIH: TWA USA: NIOSH: TWA USA: OSHA: TWA	1880 mg/m <sup>3</sup> ; 1000 ppm 1000 ppm 1880 mg/m <sup>3</sup> ; 1000 ppm 1000 mg/m <sup>3</sup> (A3) 1900 mg/m <sup>3</sup> ; 1000 ppm 1900 mg/m <sup>3</sup> ; 1000 ppm
106-97-8	Butane	Canada, Alberta: OEL 8 hour Canada, BC: OEL STEL Canada, BC: OEL TWA Canada, Ontario: OEL TWA Canada, Québec: VEMP USA: ACGIH: TWA USA: NIOSH: TWA	1000 ppm 750 ppm 600 ppm 800 ppm 1900 mg/m <sup>3</sup> ; 800 ppm 2370 mg/m <sup>3</sup> ; 1000 ppm 1900 mg/m <sup>3</sup> ; 800 ppm
74-98-6	Propane	Canada, Alberta: OEL 8 hour Canada, Québec: VEMP USA: NIOSH: TWA USA: OSHA: TWA	1000 ppm 1800 mg/m <sup>3</sup> ; 1000 ppm 1800 mg/m <sup>3</sup> ; 1000 ppm 1800 mg/m <sup>3</sup> ; 1000 ppm

### Engineering controls

Provide for good ventilation or exhaust system or work with completely self-contained equipment. Use only explosion-proof equipment.

See also information in chapter 7, section storage.

### Personal protection equipment (PPE)

**Eye/face protection:** Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010.

**Skin protection:** Flame retardant, antistatic and chemical resistant protective clothing.  
Protective gloves according to OSHA Standard - 29 CFR: 1910.138 (Solvent resistant protective gloves).  
Glove material: Nitrile rubber - Layer thickness: 0.4 mm  
Breakthrough time: < 480 min.  
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

**Respiratory protection:** Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded.

The filter class must be suitable for the maximum contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product.

If higher concentrations occur: Wear self-contained breathing apparatus.

**General hygiene considerations:**

Use non-sparking tools. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

Do not breathe gas/vapor/spray. Avoid contact with skin and eyes.

Take off contaminated clothing and wash it before reuse.

When using do not eat, drink or smoke.

Wash hands before breaks and after work.

Do not pierce or burn, even after use.



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### 9. Physical and chemical properties

#### Information on basic physical and chemical properties

Appearance:	Form: Aerosol, liquid Color: colorless
Odor:	characteristic
Odor threshold:	No data available
pH value:	not determined
Melting point/freezing point:	not applicable
Initial boiling point and boiling range:	-44 °C
Flash point/flash point range:	-97 °C
Evaporation rate:	No data available
Flammability:	extremely flammable aerosol
Explosion limits:	LEL (Lower Explosion Limit): 0.80 Vol-% UEL (Upper Explosive Limit): 15.00 Vol-%
Vapor pressure:	at 20 °C: 573 hPa
Vapor density:	not determined
Density:	at 20 °C: 0.669 g/mL
Solubility:	not determined
Water solubility:	at 20 °C: 5 g/L
Partition coefficient: n-octanol/water:	not determined
Auto-ignition temperature:	not self-igniting
Thermal decomposition:	No decomposition when used properly.
Viscosity, dynamic:	not determined
Viscosity, kinematic:	not determined
Explosive properties:	Product is not explosive. Potentially explosive vapor/air mixtures may form.
Ignition temperature:	200 °C
Solvent content:	100 %

### 10. Stability and reactivity

Reactivity:	Extremely flammable aerosol. Vapors may form explosive mixtures with air.
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions	Contains gas under pressure; may explode if heated.
Conditions to avoid:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
Incompatible materials:	Do not store together with combustible or self-igniting materials or any highly flammable solids.
Hazardous decomposition products:	May form dangerous gases and vapours in case of fire. Carbon monoxide and carbon dioxide
Thermal decomposition:	No decomposition when used properly.



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## 11. Toxicological information

### Toxicological tests

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.  
Acute toxicity (oral): Lack of data.  
Acute toxicity (dermal): Lack of data.  
Acute toxicity (inhalative): Lack of data.  
Skin corrosion/irritation: Skin Irritation 2 = Causes skin irritation.  
Information about Naphtha (petroleum), hydrotreated light  
Specific symptoms in animal studies (Rabbit): Irritant  
Eye damage/irritation: Based on available data, the classification criteria are not met.  
Sensitisation to the respiratory tract: Lack of data.  
Skin sensitisation: Sensitization - skin 1 = May cause an allergic skin reaction.  
Information about (R)-p-Mentha-1,8-diene:  
Specific symptoms in animal studies (Guinea pig): Sensitising (OECD 429).  
Germ cell mutagenicity/Genotoxicity: Lack of data.  
Carcinogenicity: Lack of data.  
Reproductive toxicity: Lack of data.  
Effects on or via lactation: Lack of data.  
Specific target organ toxicity (single exposure): Specific Target Organ Toxicity (Single Exposure) 3 = May cause drowsiness or dizziness.  
Information about Naphtha (petroleum), hydrotreated light  
Depression of central nervous system  
Specific target organ toxicity (repeated exposure): Lack of data.  
Aspiration hazard: Based on available data, the classification criteria are not met.

Other information: Information about Naphtha (petroleum), hydrotreated light:  
LD50 Rat, oral: > 5000 mg/kg (OECD 401)  
LD50, Rabbit, dermal: > 2000 mg/kg (OECD 402)  
LC50, Rat, inhalative: > 5,61 mg/L (OECD 403)  
Information about (R)-p-Mentha-1,8-diene:  
LD50 Rat, oral: > 4400 mg/kg (OECD 401)  
LD50, Rabbit, dermal: > 2000 mg/kg (OECD 402)  
IARC Rating: Group 3  
OSHA Carcinogen: not listed  
NTP Rating: not listed

### Symptoms

After contact with skin:  
Prolonged/repetitive skin contact may cause skin defatting or dermatitis.



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## 12. Ecological information

### Ecotoxicity

Aquatic toxicity: Toxic to aquatic life with long lasting effects.  
Information about Naphtha (petroleum), hydrotreated light  
Algae toxicity:  
EL50 Pseudokirchneriella subcapitata (green algae): 56 mg/L/72h (OECD 201)  
Daphnia toxicity:  
EL50 Daphnia magna (Big water flea): 4.5 mg/L/48h (OECD 202)  
Fish toxicity:  
LL50 Leuciscus idus: 4.5 mg/L/96h (OECD 203)  
Information about (R)-p-Mentha-1,8-diene  
Daphnia toxicity:  
EC50 Daphnia magna (Big water flea) 0.36 mg/L/48h  
Fish toxicity:  
LC50 Pimephales promelas (fathead minnow) 0.72 mg/L/96h (OECD 203)

Further details: Information about Naphtha (petroleum), hydrotreated light:  
Biodegradation: 77.05 % /28 d (OECD 301 F).  
Easily bio-degradable.  
Information about (R)-p-Mentha-1,8-diene  
Biodegradation: 80 %/28 d (OECD 301 D).  
Biodegradable.

### Mobility in soil

No data available

### Persistence and degradability

Further details: No data available

### Additional ecological information

Volatile organic compounds (VOC):  
99.98 % by weight = 668.9 g/L

General information: Do not allow to penetrate into soil, waterbodies or drains.

## 13. Disposal considerations

### Product

Recommendation: Do not pierce or burn, even after use.  
Special waste. Dispose of waste according to applicable legislation.  
Do not dispose of with household waste.

### Contaminated packaging

Recommendation: Dispose of waste according to applicable legislation.  
Empty carefully and completely, if possible. Handle empty containers with care.  
Incineration may cause explosion.





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### 14. Transport information

#### USA: Department of Transportation (DOT)

Identification number: UN1950  
Proper shipping name: UN 1950, AEROSOLS  
Hazard class or Division: 2.1  
Labels: 2.1  
Special provisions: N82  
Packaging – Exceptions: 306  
Packaging – Non-bulk: None  
Packaging – Bulk: None  
Quantity limitations – Passenger aircraft / rail:  
75 kg  
Quantity limitations – Cargo only: 150 kg  
Vessel stowage – Location: A  
Vessel stowage – Other: 25, 87, 126



#### Canada: Transportation of Dangerous Goods (TDG)

UN Number: UN1950  
Shipping name: UN 1950, AEROSOLS  
TDG class: 2.1  
Special provisions: 80, 107  
Explosive limit and limited quantity index: 1 L  
Passenger carrying road or rail index: 75 L

#### Sea transport (IMDG)

UN number: UN 1950  
Proper shipping name: UN 1950, AEROSOLS  
Class or division, Subsidiary risk: Class 2.1, Subrisk-  
Packing Group: -  
EmS: F-D, S-U  
Special provisions: 63, 190, 277, 327, 344, 959  
Limited quantities: 1000 mL  
Excepted quantities: E0  
Contaminated packaging - Instructions: P207, LP02  
Contaminated packaging - Provisions: PP87, L2  
IBC - Instructions: -  
IBC - Provisions: -  
Tank instructions - IMO: -  
Tank instructions - UN: -  
Tank instructions - Provisions: -  
Stowage and handling: SW1 SW22  
Segregation: SG69  
Properties and observations: -  
Marine pollutant: yes  
Segregation group: none

#### Air transport (IATA)

UN/ID number: UN 1950  
Proper shipping name: UN 1950, AEROSOLS, flammable  
Class or division, Subsidiary risk: Class 2.1  
Hazard label: Flamm. gas  
Excepted Quantity Code: E0  
Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y203 - Max. Net Qty/Pkg. 30 kg G  
Passenger and Cargo Aircraft: Pack.Instr. 203 - Max. Net Qty/Pkg. 75 kg  
Cargo Aircraft only: Pack.Instr. 203 - Max. Net Qty/Pkg. 150 kg  
Special provisions: A145 A167 A802  
Emergency Response Guide-Code (ERG): 10L



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### 15. Regulatory information

#### National regulations - Canada

No data available

#### National regulations - U.S. Federal Regulations

Naphtha (petroleum), hydrotreated light: TSCA Inventory: listed; UVCB

TSCA HPVC: not listed

TSCA: listed - UVCB

n-Pentane:

TSCA Inventory: listed; EPA flags T

TSCA HPVC: not listed

Clean Air Act:

Accidental Release Prevention: Threshold 10000 lbs. / Basis for listing = g

NIOSH Recommendations:

Occupational Health Guideline: 0486

Ethanol:

TSCA Inventory: listed

TSCA HPVC: not listed

TSCA: listed

NIOSH Recommendations:

Occupational Health Guideline: 0262

(R)-p-Mentha-1,8-diene:

TSCA Inventory: listed

TSCA HPVC: not listed

Carcinogen Status:

IARC Rating: Group 3

OSHA Carcinogen: not listed

NTP Rating: not listed

Other Environmental Laws:

Marine Pollutant: listed as pollutant.

Butane:

TSCA Inventory: listed

TSCA HPVC: not listed

Clean Air Act:

Accidental Release Prevention: Threshold 10000 lbs. / Basis for listing = f

NIOSH Recommendations:

Occupational Health Guideline: 0068\*

Propane:

TSCA Inventory: listed

TSCA HPVC: not listed

Clean Air Act:

Accidental Release Prevention: Threshold 10000 lbs. / Basis for listing = f

NIOSH Recommendations:

Occupational Health Guideline: 0524



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### National regulations - U.S. State Regulations

**Ethanol:** California Proposition 65 code: -  
 Idaho Air Pollutant List:  
 Title 585: AAC: 94 - EL: 125 - OEL: 1880 - Title 586: -  
 Massachusetts Haz. Substance codes: 2,4,5,6 \*T1\*  
 Minnesota Haz. Substance:  
 Codes: AO - Ratings: 7.74  
 Pennsylvania Haz. Substance code: -  
 Washington Air Contaminant:  
 TWA: 1000 ppm - 1900 mg

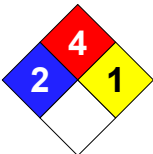
**Butane:** Delaware Air Quality Management List:  
 DRQ: F 1000\*\* - RQ State: State requirements differs from Federal  
 Massachusetts Haz. Substance codes: 4,5,6  
 Minnesota Haz. Substance:  
 Codes: A - Ratings: - - Status: Title III  
 New Jersey RTK Hazardous Substance:  
 DOT: 1011 - Sub No.: 0273 - TPQ: -  
 Pennsylvania Haz. Substance code: -  
 Washington Air Contaminant:  
 TWA: 800 ppm - 1900 mg

**Propane:** California Proposition 65 code: -  
 Delaware Air Quality Management List:  
 DRQ: F 1000\*\* - RQ State: State requirements differs from Federal  
 Massachusetts Haz. Substance codes: 2,4,5,6  
 Minnesota Haz. Substance:  
 Codes: AP - Ratings: - - Status: Title III  
 New Jersey RTK Hazardous Substance:  
 DOT: 1978 - Sub No.: 1594 - TPQ: -  
 Pennsylvania Haz. Substance code: -  
 Washington Air Contaminant:  
 TWA: 1000 ppm - 1800 mg

## 16. Other information

Text for labeling: Contains 50 - 75 % Naphtha (petroleum), hydrotreated light, 10 - 25 % n-Pentane, 3 - 10 % Ethanol, < 1 % (R)-p-Mentha-1,8-diene, 3 - 10 % Butane, 3 - 10 % Propane. Safety data sheet available on request.

Hazard rating systems:



NFPA Hazard Rating:  
 Health: 2 (Moderate)  
 Fire: 4 (Severe)  
 Reactivity: 1 (Slight)

HMIS Version III Rating:  
 Health: 2 (Moderate)  
 Flammability: 4 (Severe)  
 Physical Hazard: 1 (Slight)  
 Personal Protection: X = Consult your supervisor

HEALTH	2
FLAMMABILITY	4
PHYSICAL HAZARD	1
	X

Reason of change: Changes in section 1: General revision  
Date of first version: 18/Dec/2015

### Department issuing data sheet

Contact person: see section 1: Dept. responsible for information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.