



SAFETY DATA SHEET

according to WHMIS 2015 and ANSI Z400.1-2010

Copper-Spray

Material number 111010

Revision date: 6/Jul/2017

Version: 1

Language: en-CA,US

Date of print: 7/Jul/2017

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1. Product and company identification

Product identifier

Trade name: Copper-Spray

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

General use: Technical aerosol

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
Color: copper-coloured
Odor: characteristic
Classification: Flammable Aerosol 1; Compressed Gas; Eye Irritation 2A;
Specific Target Organ Toxicity (Single Exposure) 3; Aquatic toxicity - acute 1;
Aquatic toxicity - chronic 3;

Hazard symbols:



Signal word:

Danger

Hazard statements:

Extremely flammable aerosol.
Contains gas under pressure; may explode if heated.
Causes serious eye irritation.
May cause drowsiness or dizziness.
Very toxic to aquatic life.
Harmful to aquatic life with long lasting effects.



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Precautionary statements: 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.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Call a POISON CENTER/doctor if you feel unwell.
If eye irritation persists: Get medical advice/attention.
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

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

Repeated exposure may cause skin dryness or cracking.
see section 11: Toxicological information

3. Composition / Information on ingredients

Chemical characterisation: Mixture of synthetic resins and pigments in organic solvents

Relevant ingredients:

CAS No.	Designation	Content	Classification
CAS 67-64-1	Acetone	20 - 25 %	Flammable Liquid 2. Eye Irritation 2A. Specific Target Organ Toxicity (Single Exposure) 3.
CAS 141-78-6	Ethyl acetate	15 - 20 %	Flammable Liquid 2. Eye Irritation 2A. Specific Target Organ Toxicity (Single Exposure) 3.
CAS 64742-95-6	Solvent naphtha (petroleum), light arom	2.5 - 10 %	Flammable Liquid 3. Specific Target Organ Toxicity (Single Exposure) 3. Aspiration Toxicity 1. Aquatic toxicity - chronic 2.
CAS 7440-50-8	Copper	2.5 - 10 %	Acute Toxicity 4 (oral). Aquatic toxicity - acute 1. Aquatic toxicity - chronic 2.
CAS 106-97-8	Butane	10 - 20 %	Flammable Gas 1. Compressed Gas.
CAS 74-98-6	Propane	10 - 20 %	Flammable Gas 1. Compressed Gas.

Additional information: Solvent naphtha (petroleum), light arom: < 0,1% benzene



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4. First aid measures

- General information: IF exposed or concerned: Get medical advice/attention. First aider: Pay attention to self-protection! Take off immediately all contaminated clothing.
- In case of inhalation: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. In case of irregular breathing or respiratory arrest provide artificial respiration. Seek medical attention.
- Following skin contact: Wash with generous amount of water and soap. Take off contaminated clothing and wash it before reuse. In case of skin reactions, consult a physician.
- 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. Subsequently seek the immediate attention of an ophthalmologist.
- After swallowing: Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Seek medical attention.

Most important symptoms and effects, both acute and delayed

Causes serious eye irritation. May cause drowsiness or dizziness. Repeated exposure may cause skin dryness or cracking.

Information to physician

Treat symptomatically.

5. Fire fighting measures

- Flash point/flash point range: not applicable
- Auto-ignition temperature: not self-igniting
- Suitable extinguishing media: Alcohol resistant foam, sand, carbon dioxide
- Extinguishing media which must not be used for safety reasons: Water

Specific hazards arising from the chemical

Extremely flammable aerosol. Contains gas under pressure; may explode if heated. May form dangerous gases and vapours in case of fire. Furthermore, there may develop: Metal oxide smoke, carbon monoxide and carbon dioxide.

Protective equipment and precautions for firefighters:

Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing. Do not breathe fumes.

Additional information:

Heating will lead to pressure increase: Danger of bursting and explosion. Cool exposed containers with water spray. Move undamaged containers from immediate hazard area if it can be done safely. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. Do not allow fire water to penetrate into surface or ground water. Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

6. Accidental release measures

- Personal precautions: Eliminate all ignition sources if safe to do so. Provide adequate ventilation. Do not breathe vapor or spray. Wear appropriate protective equipment. Avoid contact with skin and eyes. Cordon off downwind area at risk and warn inhabitants.



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Environmental precautions:

Do not allow to penetrate into soil, waterbodies or drains. In case of release, notify competent authorities.

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).

Thoroughly clean surrounding area.

In case of greater quantities: Collect mechanically (use only explosion-proof equipment when pumping out).

7. Handling and storage

Handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Do not breathe spray. Do not get in eyes, on skin, or on clothing. Wear appropriate protective equipment. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Guarantee sufficient ventilation during and after use, in order to prevent vapour accumulation. Work place should be equipped with a shower and an eye rinsing apparatus.

Precautions against fire and explosion:

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.

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. storage temperature: 5 °C up to 25 °C.

Hints on joint storage:

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		
67-64-1	Acetone	Canada, Alberta: OEL 15 min	1800 mg/m ³ ; 750 ppm		
		Canada, Alberta: OEL 8 hour	1200 mg/m ³ ; 500 ppm		
		Canada, BC: OEL STEL	500 ppm		
		Canada, BC: OEL TWA	250 ppm		
		Canada, Québec: VECD	2380 mg/m ³ ; 1000 ppm		
		Canada, Québec: VEMP	1190 mg/m ³ ; 500 ppm		
		USA: ACGIH: STEL	500 ppm		
		USA: ACGIH: TWA	250 ppm		
		USA: NIOSH: TWA	590 mg/m ³ ; 250 ppm		
		USA: OSHA: TWA	2400 mg/m ³ ; 1000 ppm		
141-78-6	Ethyl acetate	Canada, Alberta: OEL 8 hour	1440 mg/m ³ ; 400 ppm		
		Canada, BC: OEL TWA	150 ppm		
		Canada, Québec: VEMP	1440 mg/m ³ ; 400 ppm		
		USA: ACGIH: TWA	1440 mg/m ³ ; 400 ppm		
		USA: NIOSH: TWA	1400 mg/m ³ ; 400 ppm		
7440-50-8	Copper	Canada, Alberta: OEL 8 hour	0.2 mg/m ³ Smoke		
		Canada, Alberta: OEL 8 hour	1 mg/m ³ Dusts and mist		
		Canada, BC: OEL TWA	0.2 mg/m ³ Smoke		
		Canada, BC: OEL TWA	1 mg/m ³		
		Canada, Québec: VEMP	0.2 mg/m ³ (Smoke, calculated as Cu)		
		Canada, Québec: VEMP	1 mg/m ³ (Dusts and mist, calculated as Cu)		
		USA: ACGIH: TWA	0.2 mg/m ³ Smoke		
		USA: ACGIH: TWA	1 mg/m ³ Dusts and mist calculated as Cu		
		USA: NIOSH: TWA	1 mg/m ³		
		USA: OSHA: TWA	0.1 mg/m ³ (Smoke; calculated as Cu)		
106-97-8	Butane	Canada, Alberta: OEL 8 hour	1000 ppm		
		Canada, BC: OEL STEL	750 ppm		
		Canada, BC: OEL TWA	600 ppm		
		Canada, Ontario: OEL TWA	800 ppm		
		Canada, Québec: VEMP	1900 mg/m ³ ; 800 ppm		
		USA: ACGIH: TWA	1000 ppm		
		USA: NIOSH: TWA	1900 mg/m ³ ; 800 ppm		
		74-98-6	Propane	Canada, Alberta: OEL 8 hour	1000 ppm
				Canada, Québec: VEMP	1800 mg/m ³ ; 1000 ppm
				USA: NIOSH: TWA	1800 mg/m ³ ; 1000 ppm
		USA: OSHA: TWA	1800 mg/m ³ ; 1000 ppm		

Biological limit values:

CAS No.	Designation	Type	Limit value	Parameter	Sampling
67-64-1	Acetone	USA: ACGIH-BEI, urine	25 mg/L	acetone	end of exposure or end of shift

Engineering controls

Provide for good ventilation or exhaust system or work with completely self-contained equipment.

See also information in chapter 7, section storage.



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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: Wear suitable protective clothing.
Protective gloves according to OSHA Standard - 29 CFR: 1910.138.
Glove material: Butyl caoutchouc (butyl rubber) - Layer thickness: ≥ 0.7 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/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

General hygiene considerations:
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 breathe vapor or spray. Use only in well-ventilated areas.
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.
Work place should be equipped with a shower and an eye rinsing apparatus.
Guarantee sufficient ventilation during and after use, in order to prevent vapour accumulation.
Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance:	Form: Aerosol Color: copper-coloured
Odor:	characteristic
Odor threshold:	No data available
pH value:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	not applicable
Flash point/flash point range:	not applicable
Evaporation rate:	No data available
Flammability:	Extremely flammable aerosol.
Explosion limits:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Density:	No data available
Solubility:	No data available
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	not self-igniting
Thermal decomposition:	No decomposition when used properly.
Explosive properties:	Vapors may form explosive mixtures with air. Contains gas under pressure; may explode if heated.



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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:	Water
Hazardous decomposition products:	Toxic gases/vapours. Carbon monoxide and carbon dioxide.
Thermal decomposition:	No decomposition when used properly.

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): Based on available data, the classification criteria are not met. ATEmix (calculated): $2000 < ATE \leq 5000$ mg/kg. Acute toxicity (dermal): Based on available data, the classification criteria are not met. Acute toxicity (inhalative): Based on available data, the classification criteria are not met. Skin corrosion/irritation: Based on available data, the classification criteria are not met. Eye damage/irritation: Eye Irritation 2A = Causes serious eye irritation. Sensitisation to the respiratory tract: Lack of data. Skin sensitisation: Based on available data, the classification criteria are not met. 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. Specific target organ toxicity (repeated exposure): Lack of data. Aspiration hazard: Lack of data.
Other information:	Information about Acetone: LD50 Rat, oral: 5800 mg/kg LD50 Rat, dermal: 7800 mg/kg LD50 Rat, inhalative: > 20 mg/L/4h

Symptoms

After contact with skin: Minor irritation effect - does not require labeling.
After eye contact: Upon direct contact with eyes may cause burning, tearing, redness.

General remarks

Further hazardous properties cannot be excluded.



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12. Ecological information

Ecotoxicity

Aquatic toxicity: Harmful to aquatic life with long lasting effects.

Mobility in soil

No data available

Persistence and degradability

Further details: No data available

Additional ecological information

Volatile organic compounds (VOC):

85.9 % by weight = 732.3 g/L

General information:

Do not allow to enter into ground-water, surface water or drains.

Avoid spills and leaks. Very small amounts contaminates drinking water.

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.

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



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Sea transport (IMDG)

UN number: UN 1950
Proper shipping name: UN 1950, AEROSOLS
Class or division, Subsidiary risk: Class 2, Subrisk-, see SP63
Packing Group: -
EmS: F-D, S-U
Special provisions: 63, 190, 277, 327, 344, 381, 959
Limited quantities: See SP277
Excepted quantities: E0
Contaminated packaging - Instructions: P207, LP200
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

15. Regulatory information

National regulations - Canada

No data available



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National regulations - U.S. Federal Regulations

Acetone:	TSCA Inventory: listed TSCA HPVC: not listed Clean Air Act: SOCMI Chemical: yes Other Environmental Laws: CERCLA: RQ 5000 lbs. RCRA Hazardous Wastes: Code U002 RCRA Groundwater Monitoring: Methods 8240 / PQL 100 NIOSH Recommendations: Occupational Health Guideline: 0004*
Ethyl acetate:	TSCA Inventory: listed; EPA flags T TSCA HPVC: not listed Other Environmental Laws: CERCLA: RQ 5000 lbs. RCRA Hazardous Wastes: Code U112 NIOSH Recommendations: Occupational Health Guideline: 0260
Solvent naphtha (petroleum), light arom:	TSCA Inventory: listed TSCA HPVC: not listed
Copper:	TSCA Inventory: listed TSCA HPVC: not listed Clean Water Act: Priority Pollutant: yes Other Environmental Laws: CERCLA: RQ 5000* lbs. Marine Pollutant: listed as severe pollutant. RCRA Groundwater Monitoring: Methods 6010, 7210 / PQL 60, 200 SARA Title III Section 313, Toxic Release: Conc. 1.0% / Threshold Standard NIOSH Recommendations: Occupational Health Guideline: 0150*
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

Acetone:	California Prop 65 List: None Delaware Air Quality Management List: DRQ: 5000 - RQ State: Federal Regulations Apply Idaho Air Pollutant List: Title 585: AAC: 89 - EL: 119 - OEL: 1780 Massachusetts Haz. Substance codes: 2,4,5,6 F8 F9 Minnesota Haz. Substance: Codes: AON - Ratings: 7.16 - Status: Title III New York List of Hazardous Substances: RQ-Air: 5000 - RQ-Land: 1 - Note: No Note Associated with this chemical. Pennsylvania Haz. Substance code: E Washington Air Contaminant: TWA: 750 ppm - 1800 mg - STEL: 1000 ppm - 2400 mg
Ethyl acetate:	Delaware Air Quality Management List: DRQ: 5000 - RQ State: Federal Regulations Apply Idaho Air Pollutant List: Title 585: AAC: 70 - EL: 93,3 - OEL: 1400 - Title 586: - Main Hazardous Air Pollutants: Me 2005: HAP - Hap Rpt: 20000 Massachusetts Haz. Substance codes: 2,4,5,6 F8 Minnesota Haz. Substance: Codes: AO - Ratings: 6.83 - Status: Title III. New York List of Hazardous Substances: RQ-Air: 5000 - RQ-Land: 1 - Note: No Note Associated with this chemical. Pennsylvania Haz. Substance code: E Washington Air Contaminant: TWA: 400 ppm - 1400 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 20 - 25 % Acetone, 15 - 20 % Ethyl acetate, 2.5 - 10 % Solvent naphtha (petroleum), light arom, 2.5 - 10 % Copper, 10 - 20 % Butane, 10 - 20 % Propane. Safety data sheet available on request.



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Hazard rating systems:



NFPA Hazard Rating:

Health: 2 (Moderate)

Fire: 4 (Severe)

Reactivity: 0 (Minimal)

HMIS Version III Rating:

Health: 2 (Moderate)

Flammability: 4 (Severe)

Physical Hazard: 0 (Minimal)

Personal Protection: X = Consult your supervisor

HEALTH	2
FLAMMABILITY	4
PHYSICAL HAZARD	0
	X

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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.