

SAFETY DATA SHEET

in accordance with 29 CFR 1910.1200 and ANSI standard Z400.1-2010



HR Pigmented white MP

Revision date: 5/18/2016
Version: 1

Language: en-US

Date of print: 5/24/2016
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1. Product and company identification

Product identifier

Trade name: HR Pigmented white MP

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

General use: Ink for industrial ink jet printers.

Details of the supplier of the safety data sheet

Company name: Pannier Corporation
Street/POB-No.: 207 Sandusky Street
Postal Code, city: Pittsburgh, PA 15212
USA
WWW: www.pannier.com
E-mail: sales@pannier.com
Telephone: (412) 323-4900

Emergency phone number

Infotrac 24-Hour Emergency Response Number : 1-800-535-5053

2. Hazards identification

Emergency overview

Appearance: Physical state at 68 °F and 101.3 kPa: liquid

Color: white

Odor: like alcohol

Classification: Flammable Liquid - Category 2; Eye Damage - Category 1;
Specific Target Organ Toxicity (Single Exposure) - Category 3;

Hazard symbols:



Signal word:

Danger

Hazard statements:

Highly flammable liquid and vapor.
Causes serious eye damage.
May cause drowsiness or dizziness.

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Precautionary statements:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Avoid breathing dust/fume/gas/mist/vapors/spray.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
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.
Immediately call a POISON CENTER/doctor.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
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.
See section 11: Toxicological information

3. Composition / Information on ingredients

Relevant ingredients:

CAS No.	Designation	Content	Classification
CAS 64-17-5	Ethanol	< 50 %	Flammable Liquid - Category 2.
CAS 71-23-8	Propan-1-ol	< 40 %	Flammable Liquid - Category 2. Eye Damage - Category 1. Specific Target Organ Toxicity (Single Exposure) - Category 3.
CAS 67-64-1	Acetone	< 2.5 %	Flammable Liquid - Category 2. Eye Irritation - Category 2A. Specific Target Organ Toxicity (Single Exposure) - Category 3.
CAS 71-36-3	Butan-1-ol	< 1.5 %	Flammable Liquid - Category 3. Acute Toxicity - oral - Category 4. Skin Irritation - Category 2. Eye Damage - Category 1. Specific Target Organ Toxicity (Single Exposure) - Category 3.
CAS 67-63-0	Isopropyl alcohol	< 1 %	Flammable Liquid - Category 2. Eye Irritation - Category 2A. Specific Target Organ Toxicity (Single Exposure) - Category 3.

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Additional information: Contains Titanium dioxide.
The maximum workplace exposure limits are, where necessary, listed in section 8.

4. First aid measures

General information: Seek medical treatment in case of troubles.
In case of inhalation: Move victim to fresh air, put at rest and loosen restrictive clothing. If you feel unwell, seek medical advice.
Following skin contact: Remove residues with water.
Take off contaminated clothing. In case of skin irritation, 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: If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. Keep victim calm and seek medical attention immediately.

Most important symptoms/effects, acute and delayed

May cause drowsiness or dizziness. Causes serious eye damage.
Inhaling can lead to irritations of the respiratory tract and mucous membrane.

Information to physician

Treat symptomatically.

5. Firefighting measures

Flash point/flash point range:

Auto-ignition temperature:
No data available

Suitable extinguishing media:
Water fog, alcohol resistant foam, dry chemical powder, carbon dioxide.

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

Specific hazards arising from the chemical

Highly flammable liquid and vapor. Air combined with vapors may form potentially explosive mixtures that are heavier than air. Vapor may travel great distances and cause fire and back flashes. In case of fire may be liberated: nitrogen oxides (NOx), carbon monoxide and carbon dioxide.

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

Additional information: Do not expose to high temperature. 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.

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6. Accidental release measures

- Personal precautions:** Do not breathe vapors. Avoid contact with the substance.
Eliminate all ignition sources if safe to do so. Provide adequate ventilation.
Wear appropriate protective equipment. Keep unprotected people away.
Cordon off downwind area at risk and warn inhabitants.
- Environmental precautions:** Do not allow to enter into ground-water, surface water or drains. Danger of explosion!
In case of release, notify competent authorities.
- Methods for clean-up:** Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculite, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13).
Beware of reigniting. Thoroughly clean surrounding area.
In case of greater quantities: Collect mechanically (use only explosion-proof equipment when pumping out).
- 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. Use only in well-ventilated areas. Do not breathe vapors.
Avoid contact with skin and eyes. Wear appropriate protective equipment.
Guarantee sufficient ventilation during and after use, in order to prevent vapor accumulation.
- Precautions against fire and explosion:**
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.

Storage

- Requirements for storerooms and containers:**
Keep container tightly closed in a cool, well-ventilated place.
Keep container dry. Keep only in the original container.
Protect from heat and direct sunlight.
Store containers in upright position. Protect from frost.
- Hints on joint storage:** Do not store together with strong oxidizing agents or acids.
Do not store together with combustible or self-igniting materials or any highly flammable solids.
Keep away from food, drink and animal feeding stuffs.

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8. Exposure controls / personal protection

Exposure guidelines

Occupational exposure limits values:

CAS No.	Designation	Type	Limit value
13463-67-7	Titanium dioxide	USA: ACGIH: TWA USA: OSHA: TWA	10 mg/m ³ 15 mg/m ³
64-17-5	Ethanol	USA: ACGIH: TWA USA: NIOSH: TWA USA: OSHA: TWA	1000 mg/m ³ (A3) 1900 mg/m ³ ; 1000 ppm 1900 mg/m ³ ; 1000 ppm
71-23-8	Propan-1-ol	USA: ACGIH: TWA USA: NIOSH: STEL USA: NIOSH: TWA	246 mg/m ³ ; 100 ppm 625 mg/m ³ ; 250 ppm (May be absorbed through the skin.) 500 mg/m ³ ; 200 ppm (May be absorbed through the skin.)
67-64-1	Acetone	USA: OSHA: TWA USA: ACGIH: STEL USA: ACGIH: TWA USA: NIOSH: TWA USA: OSHA: TWA	500 mg/m ³ ; 200 ppm 500 ppm 250 ppm 590 mg/m ³ ; 250 ppm 2400 mg/m ³ ; 1000 ppm
71-36-3	Butan-1-ol	NIOSH: Ceiling USA: ACGIH: TWA USA: OSHA: TWA	150 mg/m ³ ; 50 ppm (May be absorbed through the skin.) 61 mg/m ³ ; 20 ppm 300 mg/m ³ ; 100 ppm
67-63-0	Isopropyl alcohol	USA: ACGIH: STEL USA: ACGIH: TWA USA: NIOSH: STEL USA: NIOSH: TWA USA: OSHA: TWA	984 mg/m ³ ; 400 ppm 492 mg/m ³ ; 200 ppm 1225 mg/m ³ ; 500 ppm 980 mg/m ³ ; 400 ppm 980 mg/m ³ ; 400 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
67-63-0	Isopropyl alcohol	USA: ACGIH-BEI, urine	40 mg/L	Acetone in urine	end of shift at end of workweek

Engineering controls

Provide for good ventilation or exhaust system or work with completely self-contained equipment. Explosion protection required.
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: Wear suitable protective clothing.
In case of handling larger quantities: Wear flame-resistant antistatic protective clothing.
Protective gloves according to OSHA Standard - 29 CFR: 1910.138.
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

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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 the concentration is exceeded, self-contained breathing apparatus must be used.

General hygiene considerations:

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

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

Take off immediately all contaminated clothing. When using do not eat, drink or smoke.

Wash hands before breaks and after work. Safety shower and eye wash station should be easily accessible to the work area.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance:	Physical state at 68 °F and 101.3 kPa: liquid Color: white
Odor:	like alcohol
Odor threshold:	No data available
pH value:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flash point/flash point range:	57.2 °F (c.c.)
Evaporation rate:	No data available
Flammability:	Highly flammable liquid and vapor.
Explosion limits:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Density:	No data available
Water solubility:	insoluble
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Thermal decomposition:	No data available
Explosive properties:	Product is not explosive. Vapors may form explosive mixtures with air.
Oxidizing characteristics:	not oxidising

10. Stability and reactivity

Reactivity:	Flammable liquid and vapor. Vapors may form explosive mixtures with air.
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions	Do not expose to high temperature. Danger of bursting and explosion.
Conditions to avoid:	Keep away from heat sources, sparks and open flames. Protect against direct sunlight. Protect from frost.

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Incompatible materials: Oxidizing agents, acids.

Hazardous decomposition products:

In case of fire may be liberated: nitrogen oxides (NOx), carbon monoxide and carbon dioxide.

Thermal decomposition: No data available

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): ATE > 2000 mg/kg.

Acute toxicity (dermal): Lack of data.

Acute toxicity (inhalative): Lack of data.

Skin corrosion/irritation: Lack of data.

Information about Propan-1-ol:

Specific symptoms in animal studies (Rabbit): mild irritant

Information about butanol:

Specific symptoms in animal studies (Rabbit): moderate

Eye damage/irritation: Eye Damage - Category 1 = Causes serious eye damage.

Sensitization to the respiratory tract: Lack of data.

Skin sensitization: Lack of data.

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) - Category 3 = May cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure): Lack of data.

Aspiration hazard: Lack of data.

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Other information: Information about Propan-1-ol:
Acute oral toxicity LD50 Rat: 3830 mg/kg
Acute inhalation toxicity LC50 Rat: > 9.8 mg/L/4h
Acute dermal toxicity LD50 Rabbit: > 10000 mg/kg
Information about Ethanol:
Acute oral toxicity LD50 Rat: 7060 mg/kg
Acute inhalation toxicity LC50 Rat: 63000 ppm/4h
Acute dermal toxicity LDLo Rabbit: > 20000 mg/kg
Information about Butan-1-ol:
Acute oral toxicity LD50 Rat: 1227 mg/kg
Information about Titanium dioxide:
Carcinogen Status:
IARC Rating: Group 2B
OSHA Carcinogen: not listed
NTP Rating: not listed
Information about Isopropyl alcohol:
Carcinogen Status:
IARC Rating: Group 3
OSHA Carcinogen: not listed
NTP Rating: not listed

12. Ecological information

Ecotoxicity

Aquatic toxicity: Information about Propan-1-ol:
Fish toxicity:
LC50 Pimephales promelas (fathead minnow): > 804 mg/L/96 h
Information about Ethanol:
Fish toxicity:
LC50 Pimephales promelas (fathead minnow): > 100 mg/L/96 h

Mobility in soil

No data available

Persistence and degradability

Further details: No data available

Additional ecological information

Volatile organic compounds (VOC):
approx. 85 % by weight
General information: Do not allow to enter into ground-water, surface water or drains.

13. Disposal considerations

Product

Recommendation: Incinerate as hazardous waste according to applicable local, state, and federal regulations.
Do not dispose of with household waste.
Do not empty into drains.

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Contaminated packaging

Recommendation: Dispose of waste according to applicable legislation.
Non-contaminated packages may be recycled.

14. Transport information

USA: Department of Transportation (DOT)

Identification number: UN1263
Proper shipping name: UN 1263, Paint
Hazard class or Division: 3
Packing Group: II
Labels: 3
Special provisions: 149, 367, B52, IB2, T4, TP1, TP8, TP28
Packaging – Exceptions: 150
Packaging – Non-bulk: 173
Packaging – Bulk: 242
Quantity limitations – Passenger aircraft / rail: 5 L
Quantity limitations – Cargo only: 60 L
Vessel stowage – Location: B



Sea transport (IMDG)

UN number: UN 1263
Proper shipping name: UN 1263, Paint
Class or division, Subsidiary risk: Class 3, Sub
risk- Packing Group: II
EmS: F-E, S-E
Special provisions: 163, 367
Limited quantities: 5 L
Excepted quantities: E2
Contaminated packaging - Instructions: P001
Contaminated packaging - Provisions: PP1
IBC - Instructions: IBC02
IBC - Provisions: -
Tank instructions - IMO: -
Tank instructions - UN: T4
Tank instructions - Provisions: TP1, TP8, TP28
Stowage and handling: Category B.
Properties and observations: Miscibility with water depends upon the composition.
Marine pollutant: no
Segregation group: none

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Air transport (IATA)

UN/ID number:	UN 1263
Proper shipping name:	UN 1263, Paint
Class or division, Subsidiary risk:	Class 3
Packing Group:	II
Hazard label:	Flammable liquid
Excepted Quantity Code:	E2
Passenger and Cargo Aircraft: Ltd.Qty:	Pack.Instr. Y341 - Max. Net Qty/Pkg. 1L
Passenger and Cargo Aircraft:	Pack.Instr. 353 - Max. Net Qty/Pkg. 5 L
Cargo Aircraft only:	Pack.Instr. 364 - Max. Net Qty/Pkg. 60 L
Special provisions:	A3 A72 A192
Emergency Response Guide-Code (ERG):	3L

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15. Regulatory information

National regulations - U.S. Federal Regulations

Titanium dioxide:	TSCA Inventory: listed TSCA HPVC: not listed Carcinogen Status: IARC Rating: Group 2B OSHA Carcinogen: not listed NTP Rating: not listed NIOSH Recommendations: Occupational Health Guideline: 0617
Ethanol:	TSCA Inventory: listed TSCA HPVC: not listed TSCA: listed NIOSH Recommendations: Occupational Health Guideline: 0262
Propan-1-ol:	TSCA Inventory: listed TSCA HPVC: not listed NIOSH Recommendations: Occupational Health Guideline: 0533
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*
Butan-1-ol:	TSCA Inventory: listed TSCA HPVC: not listed Other Environmental Laws: CERCLA: RQ 5000 lbs. RCRA Hazardous Wastes: Code U031 SARA Title III Section 313, Toxic Release: Conc. 1.0% / Threshold Standard NIOSH Recommendations: Occupational Health Guideline: 0076
Isopropyl alcohol:	TSCA Inventory: listed TSCA HPVC: not listed Carcinogen Status: IARC Rating: Group 3 OSHA Carcinogen: not listed NTP Rating: not listed NIOSH Recommendations: Occupational Health Guideline: 0359

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National regulations - U.S. State Regulations

Product:	Idaho Air Pollutant List: Title 585: AAC: 25 - EL: 33.3 - OEL: 500 - Title 586: - Massachusetts Haz. Substance codes: 2, 4, 6 Minnesota Haz. Substance: Codes: AO - Ratings: - Pennsylvania Haz. Substance code: - Washington Air Contaminant: TWA: 200 ppm - 500 mg - STEL: 250 ppm - 625 mg Skin: Protective measures should be taken to prevent or reduce skin absorption.
Titanium dioxide:	California Proposition 65: cancer Rhode Island HSL: listed
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
Propan-1-ol:	Idaho Air Pollutant List: Title 585: AAC: 25 - EL: 33.3 - OEL: 500 - Title 586: - Massachusetts Haz. Substance codes: 2, 4, 6 Minnesota Haz. Substance: Codes: AO - Ratings: - Pennsylvania Haz. Substance code: - Washington Air Contaminant: TWA: 200 ppm - 500 mg - STEL: 250 ppm - 625 mg Skin: Protective measures should be taken to prevent or reduce skin absorption.
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

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Butan-1-ol: California Proposition 65 code: -
Delaware Air Quality Management List:
DRQ: 5000 - RQ State: Federal Regulations Apply
Idaho Air Pollutant List:
Title 585: AAC: 7.5 - EL: 10 - OEL: 150 - Title 586: -
Main Hazardous Air Pollutants:
Me 2005: HAP - Hap Rpt: 2000
Massachusetts Haz. Substance codes: 2,4,5,6 F8 F9
Minnesota Haz. Substance:
Codes: AO - Ratings: 7.5 - Status: III. TRI.
New Jersey RTK Hazardous Substance:
DOT: 1120 - Sub No.: 1330 - TPQ: -
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:
Ceiling: 50 ppm - 150 mg
Skin: Protective measures should be taken to prevent or reduce skin absorption.

Isopropyl alcohol: Idaho Air Pollutant List:
Title 585: AAC: 49 -- EL: 65.3 -- WEL: 980 -Title 586: -
Massachusetts Haz. Substance codes: 2,4,5,6 F9
Minnesota Haz. Substance:
Codes: ANO -- Ratings: 7.84 -- Status: Title III. TRI.
New Jersey RTK Hazardous Substance:
DOT: 1219 - Sub No.: 1076 - TPQ: -
Pennsylvania Haz. Substance code: E
Washington Air Contaminant:
TWA: 400 ppm - 980 mg -- STEL: 500 ppm - 1225 mg

Idaho Air Pollutant List:
Title 585: AAC: 25 - EL: 33.3 - OEL: 500 - Title 586: -
Massachusetts Haz. Substance codes: 2, 4,
6 Minnesota Haz. Substance:
Codes: AO - Ratings: -
Pennsylvania Haz. Substance code: -
Washington Air Contaminant:
TWA: 200 ppm - 500 mg - STEL: 250 ppm - 625 mg
Skin: Protective measures should be taken to prevent or reduce skin absorption.

National regulations - Great Britain

Hazchem-Code: •3YE

16. Other information

Text for labeling: Contains < 50 % Ethanol, < 40 % Propan-1-ol, < 2.5 % Acetone, < 1.5 % Butan-1-ol, < 1 % Isopropyl alcohol. 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.