
SAFETY DATA SHEET*according to Regulation (EC) No. 1907/2006***0893 550 - P.T.F.E Dry Film Lubricant 300ml**

Version 3.0

Revision Date 14.08.2014

Print Date 12.02.2015

IE / EN

Date of last issue:

15.11.2013

Date of first issue:

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Commercial Product Name : P.T.F.E Dry Film Lubricant 300ml

Product code : 0893 550

SDS-Identcode : 10033104

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

Use of the Substance/Mixture : Anti-friction agent and lubricant

1.3 Details of the supplier of the safety data sheetCompany : WÜRTH IRELAND LTD.
Monaclooe Ind. Est. Ballysimon Road
Limerick
Ireland

Telephone : +353 61 430200

Telefax : +353 61 412428

Responsible/issuing person : E-mail address: prodsafe@wuerth.com

1.4 Emergency telephone numberNational Chemical Emergency Centre
+44 (0)870 190 6777

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Aerosols, Category 1

H222: Extremely flammable aerosol.

H229: Pressurised container: May burst if heated.

Skin irritation, Category 2

H315: Causes skin irritation.

Chronic aquatic toxicity, Category 3

H412: Harmful to aquatic life with long lasting effects.

Classification (67/548/EEC, 1999/45/EC)

Extremely flammable

R12: Extremely flammable.

Dangerous for the environment

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R67: Vapours may cause drowsiness and dizziness.

2.2 Label elements

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Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms

:



Signal word

:

Danger

Hazard statements

:

H222

Extremely flammable aerosol.

H229

Pressurised container: May burst if heated.

H315

Causes skin irritation.

H412

Harmful to aquatic life with long lasting effects.

Precautionary statements

:

Prevention:

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211

Do not spray on an open flame or other ignition source.

P251

Do not pierce or burn, even after use.

P273

Avoid release to the environment.

Response:

P362 + P364

Take off contaminated clothing and wash it before reuse.

Storage:

P410 + P412

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

| Chemical Name | CAS-No. | Classification (67/548/EEC) | Classification (1272/2008/EC) | Concentration [%] |
|---------------|------------------------|--------------------------------|----------------------------------|----------------------|
| | EC-No. | | | |
| | Registration number | | | |

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| | | | | |
|---|------------|--|---|----------------|
| butane | 106-97-8 | F+; R12 | Flam. Gas 1; H220 Press. Gas Liquefied gas; H280 | >= 60 - < 65 |
| | 203-448-7 | | | |
| | | | | |
| low boiling point hydrogen treated naphtha | 64742-49-0 | F; R11 Xi; R38 N; R51/53 Xn; R65 R67 | Flam. Liq. 2; H225 Skin Irrit. 2; H315 STOT SE 3; H336 Asp. Tox. 1; H304 Aquatic Chronic 2; H411 | >= 15 - < 20 |
| | 265-151-9 | | | |
| | | | | |
| propane | 74-98-6 | F+; R12 | Flam. Gas 1; H220 | >= 12,5 - < 15 |
| | 200-827-9 | | | |
| | | | | |
| isopropanol | 67-63-0 | F; R11 Xi; R36 R67 | Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 | >= 3 - < 5 |
| | 200-661-7 | | | |
| | | | | |
| isobutane | 75-28-5 | F+; R12 | Flam. Gas 1; H220 | >= 3 - < 5 |
| | 200-857-2 | | | |
| | | | | |

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

| | |
|-------------------------|---|
| General advice | : If you feel unwell, seek medical advice (show the label where possible). First aider needs to protect himself. Move out of dangerous area. Never give anything by mouth to an unconscious person. Take off contaminated clothing and shoes immediately. |
| If inhaled | : If breathed in, move person into fresh air. In the case of inhalation of aerosol/mist consult a physician if necessary. Keep patient warm and at rest. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. |
| In case of skin contact | : In case of contact, immediately flush skin with soap and plenty of water. Do NOT use solvents or thinners. If skin irritation persists, call a physician. |
| In case of eye contact | : Protect unharmed eye. If easy to do, remove contact lens, if worn. In the case of contact with eyes, rinse immediately with plenty of water |

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and seek medical advice.

If swallowed

: If swallowed, seek medical advice immediately and show this container or label. If swallowed, DO NOT induce vomiting. If a person vomits when lying on his back, place him in the recovery position.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures**5.1 Extinguishing media**

Suitable extinguishing media : Carbon dioxide (CO₂), Dry powder, Water spray jet, Alcohol-resistant foam

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Do not use a solid water stream as it may scatter and spread fire. Hazardous decomposition products may be formed under fire conditions (see section 10). Exposure to decomposition products may be a hazard to health.

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

Further information : Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. In the event of fire and/or explosion do not breathe fumes. Use water spray to cool unopened containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. If the temperature rises there is danger of the vessels bursting due to the high vapor pressure.

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SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Refer to protective measures listed in sections 7 and 8. Use personal protective equipment. Remove all sources of ignition. Avoid contact with skin and eyes. Ensure adequate ventilation, especially in confined areas. Contaminated surfaces will be extremely slippery. Immediately evacuate personnel to safe areas. Avoid inhalation of vapour or mist. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities. Avoid release to the environment. Refer to special instructions/ Safety data sheets.

6.3 Methods and materials for containment and cleaning up

Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations. Clean contaminated surface thoroughly.

6.4 Reference to other sections

see chapter: 7, 8, 11, 12 and 13

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

- | | | |
|---|---|---|
| Advice on safe handling | : | For personal protection see section 8. Limit the stocks at work place. Use only in well-ventilated areas. Do not breathe vapours or spray mist. Avoid contact with skin and eyes. Do not spray on a naked flame or any incandescent material. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. Take precautionary measures against static discharges. Do not carry cloths that have come into contact with the product in your clothing. |
| Advice on protection against fire and explosion | : | Normal measures for preventive fire protection. Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Keep away from heat and sources of ignition. Do not smoke. No sparking tools should be used. Electrical equipment should be protected to the appropriate standard. |
| Dust explosion class | : | Not applicable |

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7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in original container. BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects. Keep containers tightly closed in a dry, cool and well-ventilated place. Please observe the storage instructions for aerosols!

Advice on common storage : Keep away from food, drink and animal feedingstuffs. Do not store together with oxidizing and self-igniting products.

Storage period : \geq 24 Months

Storage temperature : 15 - 35 °C

7.3 Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection**8.1 Control parameters**

| Components | CAS-No. | Control parameters | Basis | Update |
|-------------|----------|--|--------|------------|
| butane | 106-97-8 | OELV - 8 hrs (TWA): 1.000 ppm | IE OEL | 2010-04-30 |
| propane | 74-98-6 | OELV - 8 hrs (TWA): 1.000 ppm Asphx, | IE OEL | 2010-04-30 |
| isopropanol | 67-63-0 | OELV - 8 hrs (TWA): 200 ppm Sk, OELV - 15 min (STEL): 400 ppm Sk, | IE OEL | 2007-08-17 |

Other information on limit values: see chapter 16

8.2 Exposure controls**Engineering measures**

Provide sufficient air exchange and/or exhaust in work rooms.

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Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.

Hand protection

Material : Nitrile rubber
Glove thickness : 0,4 mm
Break through time: : > 480 min
Directive : DIN EN 374

Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer.

Eye protection : In case of splash hazard, please wear protective goggles.

Skin and body protection : Flame retardant antistatic protective clothing.
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
General industrial hygiene practice.
Do not inhale aerosol.
Avoid contact with skin, eyes and clothing.
When using do not eat, drink or smoke.
Wash hands before breaks and at the end of workday.
Follow the skin protection plan.
Wash contaminated clothing before re-use.

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.
Avoid release to the environment. Refer to special instructions/ Safety data sheets.

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SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

| | |
|--|----------------------------------|
| Appearance | : aerosol |
| Propellant | : butane, isobutane, propane |
| Colour | : off-white |
| Odour | : very faint |
| Odour Threshold | : No data available |
| Flash point | : < 0 °C |
| | Solvent mixture |
| Ignition temperature | : 365 °C |
| Thermal decomposition | : No data available |
| Lower explosion limit | : 0,7 %(V) |
| Upper explosion limit | : 10,9 %(V) |
| Explosive properties | : No data available |
| Flammability | : No data available |
| Oxidizing properties | : No data available |
| Auto-ignition temperature | : not auto-flammable |
| Burning number | : No data available |
| Molecular weight | : No data available |
| pH | : No data available |
| Melting point/range | : No data available |
| Boiling point/boiling range | : -44 °C |
| Vapour pressure | : No data available |
| Density | : 0,6 g/cm ³ at 20 °C |
| Bulk density | : No data available |
| Water solubility | : partly miscible |
| Partition coefficient: n-octanol/water | : No data available |
| Solubility in other solvents | : No data available |
| Viscosity, dynamic | : No data available |
| Viscosity, kinematic | : No data available |
| Flow time | : No data available |
| Impact sensitivity | : No data available |

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| | |
|-------------------------|---------------------|
| Relative vapour density | : No data available |
| Surface tension | : No data available |
| Evaporation rate | : No data available |
| Minimum ignition energy | : No data available |
| Acid number | : No data available |
| Refraction index | : No data available |
| Miscibility in water | : No data available |
| Solvent separation test | : No data available |

9.2 Other information

None known.

SECTION 10: Stability and reactivity**10.1 Reactivity**

No data available

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Vapours may form explosive mixtures with air. If the temperature rises there is danger of the vessels bursting due to the high vapor pressure.

10.4 Conditions to avoid

Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : No data available

10.6 Hazardous decomposition products

Hazardous decomposition products : fluorinated compounds

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity**

Acute oral toxicity:

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isopropanol : LD50 Rat: 5.045 mg/kg

Acute inhalation toxicity:

butane : LC50 Mouse, males: 1.237 mg/l, 520400 ppm
Test atmosphere: gas
Exposure time: 2 h

isopropanol : LC50 Rat: 46,5 mg/l
Exposure time: 4 h

isobutane : LC50 Mouse, male: 1.237 mg/l
Test atmosphere: gas
Exposure time: 120 min

Acute dermal toxicity:

isopropanol : LD50 Rabbit: 12.800 mg/kg

Acute toxicity (other routes of administration):

No data available

Skin corrosion/irritation

Skin irritation : slight irritation

Serious eye damage/eye irritation

isopropanol : Irritating to eyes.

Respiratory or skin sensitisation

Sensitisation:

No data available

Germ cell mutagenicity

Genotoxicity in vitro:

butane : Test species: Human lymphocytes
with and without metabolic activation
Result: negative
Method: OECD Test Guideline 473

isobutane : Type: Mutagenicity (Escherichia coli - reverse mutation assay)
with and without metabolic activation

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Result: negative

Method: OECD Test Guideline 471

Genotoxicity in vivo:

butane

: Type: In vivo micronucleus test
Test species: Rat
Sex: male and female
Application Route: inhalation (gas)
Exposure duration: 13 w
Dose: 0 - 10000 ppm
Result: negative
Method: OECD Test Guideline 474

Carcinogenicity

Remarks

low boiling point hydrogen treated naphtha

: Carcinogenicity:
Classified based on benzene content < 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)

Mutagenicity:

Classified based on benzene content < 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)

isobutane

: Mutagenicity:
Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Reproductive toxicity

isobutane

: Note: No toxicity to reproduction

Teratogenicity

No data available

STOT - single exposure

low boiling point hydrogen treated naphtha

: May cause drowsiness or dizziness.

isopropanol

: May cause drowsiness or dizziness.

STOT - repeated exposure

butane

: NOAEL: Rat, male and female: 21,394 mg/l, 9000 ppm
Application Route: Inhalation
Exposure time: 28 d
Dose: 0 - 9000 ppm

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Aspiration hazardAspiration toxicity

low boiling point hydrogen treated naphtha : May be fatal if swallowed and enters airways.

Neurological effects

No data available

Toxicology AssessmentToxicology, Metabolism, Distribution

No data available

Acute effects

No data available

Further information

: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

SECTION 12: Ecological information**12.1 Toxicity**

Toxicity to fish : Harmful to fish.

Toxicity to daphnia and other aquatic invertebrates

isopropanol : EC50 (Daphnia magna (Water flea)): 13.299 mg/l
Exposure time: 48 h

Ecotoxicology AssessmentAcute aquatic toxicity

low boiling point hydrogen treated naphtha : Toxic to aquatic life.

Chronic aquatic toxicity

low boiling point hydrogen treated naphtha : Toxic to aquatic life with long lasting effects.

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12.2 Persistence and degradabilityBiodegradability

butane : Concentration: 61,2 mg/l
Result: Readily biodegradable.
Biodegradation: 100 %
Exposure time: 26,4 d

isobutane : Result: Readily biodegradable.

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Adsorbed organic bound halogens (AOX) : Remarks:
not included

Additional ecological information : The product should not be allowed to enter drains, water courses or the soil.
Harmful to aquatic organisms.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Advice on disposal and packaging : Disposal:
In accordance with local and national regulations. This material and its container must be disposed of in a safe way.
Waste codes should be assigned by the user based on the application for which the product was used.

The following Waste Codes are only suggestions:

Waste Code (EWC) : Waste Key (unused product):
160504, gases in pressure containers (including halons) containing

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dangerous substances

Waste key (used product):

160504, gases in pressure containers (including halons) containing dangerous substances

Disposal of uncleaned packaging

: Waste key (uncleaned packaging):

150110, packaging containing residues of or contaminated by dangerous substances

Note: Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not burn, or use a cutting torch on, the empty drum. Please ensure aerosol cans are sprayed completely empty (including propellant) Containers that have not been emptied in compliance with regulations are regarded as hazardous waste. Dispose of as unused product.

SECTION 14: Transport information**14.1 UN number**

| | | |
|------|---|------|
| ADN | : | 1950 |
| ADR | : | 1950 |
| RID | : | 1950 |
| IMDG | : | 1950 |
| IATA | : | 1950 |

14.2 Proper shipping name

| | | |
|------|---|---------------------|
| ADN | : | AEROSOLS |
| ADR | : | AEROSOLS |
| RID | : | AEROSOLS |
| IMDG | : | AEROSOLS |
| IATA | : | AEROSOLS, FLAMMABLE |

14.3 Transport hazard class(es)

| | | |
|------|---|-----|
| ADN | : | 2 |
| ADR | : | 2 |
| RID | : | 2 |
| IMDG | : | 2.1 |
| IATA | : | 2.1 |

14.4 Packing group

| | | |
|---------------------|---|-----|
| ADN | | |
| Classification Code | : | 5F |
| Labels | : | 2.1 |
| ADR | | |

| | | |
|---------------------|---|-----|
| Classification Code | : | 5F |
| Labels | : | 2.1 |

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Limited quantity : 1,00 L

Tunnel restriction code : (D)

RID

Classification Code : 5F

Hazard Identification Number : 23

Labels : 2.1

Limited quantity : 1,00 L

IMDG

Labels : 2.1

EmS Number : F-D, S-U

IATA

Packing instruction (cargo aircraft) : 203

Packing instruction (passenger aircraft) : 203

Packing instruction (LQ) : Y203

Labels : 2.1

14.5 Environmental hazards**ADN****ADN**

Environmentally hazardous : no

ADR

Environmentally hazardous : no

RID

Environmentally hazardous : no

IMDG

Marine pollutant : no

IATA

Environmentally hazardous : no

14.6 Special precautions for user

see chapter: 6, 7 and 8

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

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| | | | |
|---|---|------------|------------|
| VOC | : Directive 1999/13/EC 98,1 % VOC content less water: 588,4 g/l | | |
| Seveso II - Directive 2003/105/EC amending Council Directive 96/82/EC on the con- trol of major-accident hazards involving dangerous substances | : Update: | Quantity 1 | Quantity 2 |
| | Extremely flammable | 10 t | 50 t |
| | Update: Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams) | 2.500 t | 25.000 t |
| Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. | Update: | | |
| | FLAMMABLE AEROSOLS | 150 t | 500 t |
| | Update: Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams) | 2.500 t | 25.000 t |
| | Update: Liquefied extremely flamma- ble gases (including LPG) and natural gas | 50 t | 200 t |

National legislation

Other regulations : Take note of Dir 94/33/EC on the protection of young people at work.

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Further information : Reserved for industrial and professional use.

15.2 Chemical Safety Assessment

No data available

SECTION 16: Other information**Full text of R-phrases referred to under sections 2 and 3**

| | |
|--------|---|
| R11 | Highly flammable. |
| R12 | Extremely flammable. |
| R36 | Irritating to eyes. |
| R38 | Irritating to skin. |
| R51/53 | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| R52/53 | Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| R65 | Harmful: may cause lung damage if swallowed. |
| R67 | Vapours may cause drowsiness and dizziness. |

Full text of H-Statements referred to under sections 2 and 3.

| | |
|------|---|
| H220 | Extremely flammable gas. |
| H222 | Extremely flammable aerosol. |
| H225 | Highly flammable liquid and vapour. |
| H229 | Pressurised container: May burst if heated. |
| H280 | Contains gas under pressure; may explode if heated. |
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H336 | May cause drowsiness or dizziness. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

Other information

| | |
|-------|---|
| Asphx | Gaseous chemical substances which may not produce significant physiological effects in the exposed employee, but when present in high concentrations will act as simple asphyxiants |
| Sk | Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body |

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

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