

Safety Data Sheet

according to ISO 11014 and 29 CFR 1910.1200

Printing date 10/27/2015

Version number 2

Reviewed on 09/04/2015

1 Identification

- . **Product identifier**
- . **Trade name:** GRILTEX 6E P 82
- . **Article number:** 135070
- . **Application of the substance / the mixture** Hotmelt adhesives
- . **Details of the supplier of the safety data sheet**
- . **Manufacturer/Supplier:**
EMS-GRILTECH CH-7013 Domat/Ems
Tel.: +41 81 632 72 02, Fax +41 81 632 74 02
info@emsgriltech.com
- . **Information department:**
Abteilung Umweltschutz und Sicherheit
Tel.: +41 81 632 78 88 Fax: +41 81 632 76 65
E-Mail: produktsicherheit@emsservices.ch
- . **Emergency telephone number:**
EMS-CHEMIE AG CH-7013 Domat/Ems
Phone: +41 81 632 78 88 Fax: +41 81 632 76 65
Poison Center Switzerland Zürich Phone: +41 44 251 51 51

2 Hazard(s) identification

- . **Classification of the substance or mixture**
The substance is not classified according to the Globally Harmonized System (GHS).
- . **Label elements**
- . **GHS label elements** Void
- . **Hazard pictograms** Void
- . **Signal word** Void
- . **Hazard statements** Void
- . **Classification system:**
- . **NFPA ratings (scale 0 - 4)**



- . **HMS-ratings (scale 0 - 4)**

HEALTH	0	Health = 0
FIRE	1	Fire = 1
REACTIVITY	0	Reactivity = 0

- . **Other hazards**
- . **Results of PBT and vPvB assessment**
- . **PBT:** Not applicable.

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Trade name: GRILTEX 6E P 82

. vPvB: Not applicable.

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3 Composition/information on ingredients

- . **Chemical characterization: Substance**
- . **CAS No. Description**
Copolyester

4 First-aid measures

- . **Description of first aid measures**
- . **General information:** No special measures required.
- . **After inhalation:** Seek medical treatment in case of complaints.
- . **After skin contact:**
After contact with the molten product, cool rapidly with cold water.
Do not pull solidified product away from the skin.
Generally the product does not irritate the skin.
- . **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- . **After swallowing:** If symptoms persist consult doctor.
- . **Information for doctor:**
- . **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- . **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- . **Extinguishing media**
- . **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- . **Special hazards arising from the substance or mixture**
In case of fire, the following can be released:
Carbon monoxide (CO)
Carbon dioxide (CO₂)
- . **Advice for firefighters**
- . **Protective equipment:** Use self-contained breathing apparatus and protective fire fighting clothing.
- . **Additional information**
Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

- . **Personal precautions, protective equipment and emergency procedures** Not required.
- . **Environmental precautions:** No special measures required.
- . **Methods and material for containment and cleaning up:** Pick up mechanically.
- . **Reference to other sections**
See Section 7 for information on safe handling.

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Trade name: GRILTEX 6E P 82

See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

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7 Handling and storage

- . **Handling:**
- . **Precautions for safe handling** No special measures required.
- . **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Dust can combine with air to form an explosive mixture.
- . **Conditions for safe storage, including any incompatibilities**
- . **Storage:**
- . **Requirements to be met by storerooms and receptacles:** No special requirements.
- . **Information about storage in one common storage facility:** Not required.
- . **Further information about storage conditions:** None.
- . **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- . **Additional information about design of technical systems:** No further data; see item 7.
- . **Control parameters**
- . **Components with limit values that require monitoring at the workplace:**
National workplace exposure limits for airborne particles (respirable and inhalable dust) have to be observed.
- . **Exposure controls**
- . **Personal protective equipment:**
- . **General protective and hygienic measures:**
The usual precautionary measures for handling chemicals should be followed.
- . **Breathing equipment:** Not required.
- . **Protection of hands:** Protective gloves
- . **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- . **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- . **Eye protection:** Safety glasses
- . **Body protection:** Protective work clothing

9 Physical and chemical properties

- . **Information on basic physical and chemical properties**
- . **General Information**
- . **Appearance:**
Form: Powder

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Trade name: GRILTEX 6E P 82

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Color:	White
Odor:	Nearly odorless
Change in condition	
Melting point/Melting range: 110-160 °C (230-320 °F)	
Boiling point/Boiling range: Not determined.	
Flash point:	Not applicable.
Decomposition temperature:	> 300 °C (> 572 °F)
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Risk of dust explosion
Density at 20 °C (68 °F):	> 1.0 g/cm ³ (> 8.345 lbs/gal)
Solubility in / Miscibility with	
Water:	Insoluble.
Other information	No further relevant information available.

10 Stability and reactivity

- . **Reactivity** Reacts with strong acids and oxidizing agents.
- . **Chemical stability** No decomposition if used and stored according to specifications.
- . **Possibility of hazardous reactions** Risk of dust explosion.
- . **Conditions to avoid** No further relevant information available.
- . **Incompatible materials:** No further relevant information available.
- . **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- . **Information on toxicological effects**
- . **Acute toxicity:**
- . **Primary irritant effect:**
- . **on the skin:** No irritant effect.
- . **on the eye:** No irritant effect.
- . **Sensitization:** No sensitizing effects known.
- . **Additional toxicological information:**
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

- . **Carcinogenic categories**

- . **IARC (International Agency for Research on Cancer)**

Substance is not listed.

- . **NTP (National Toxicology Program)**

Substance is not listed.

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Trade name: GRILTEX 6E P 82

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. OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

12 Ecological information

- . **Toxicity**
- . **Aquatic toxicity:** No further relevant information available.
- . **Persistence and degradability** No further relevant information available.
- . **Behavior in environmental systems:**
- . **Bioaccumulative potential** No further relevant information available.
- . **Mobility in soil** No further relevant information available.
- . **Additional ecological information:**
- . **General notes:** Generally not hazardous for water
- . **Results of PBT and vPvB assessment**
- . **PBT:** Not applicable.
- . **vPvB:** Not applicable.
- . **Other adverse effects** No further relevant information available.

13 Disposal considerations

- . **Waste treatment methods**
- . **Recommendation:**
On the basis of the necessary technical regulations and after consultation with the disposal agent and the relevant authorities, can be disposed of with domestic waste or incinerated with domestic waste.
- . **Uncleaned packagings:**
- . **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- | | |
|-------------------------------------|------|
| . UN-Number | |
| . DOT, ADR, ADN, IMDG, IATA | Void |
| . UN proper shipping name | |
| . DOT, ADN, IMDG, IATA | Void |
| . ADR | Void |
| . Transport hazard class(es) | |
| . DOT, ADR, ADN, IMDG, IATA | |
| . Class | Void |
| . Packing group | |
| . DOT, ADR, IMDG, IATA | Void |
| . Environmental hazards: | |
| . Marine pollutant: | No |

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Trade name: GRILTEX 6E P 82

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. Special precautions for user	Not applicable.
. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
. Transport/Additional information:	Not dangerous according to ADR/RID/IMDG/IATA.
. UN "Model Regulation":	Void

15 Regulatory information

- . **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- . **Sara**

- . **Section 355 (extremely hazardous substances):**

Substance is not listed.

- . **Section 313 (Specific toxic chemical listings):**

Substance is not listed.

- . **TSCA (Toxic Substances Control Act):**

Substance is listed.

- . **Proposition 65**

- . **Chemicals known to cause cancer:**

Substance is not listed.

- . **Chemicals known to cause reproductive toxicity for females:**

Substance is not listed.

- . **Chemicals known to cause reproductive toxicity for males:**

Substance is not listed.

- . **Chemicals known to cause developmental toxicity:**

Substance is not listed.

- . **Carcinogenicity categories**

- . **EPA (Environmental Protection Agency)**

Substance is not listed.

- . **NIOSH-Ca (National Institute for Occupational Safety and Health)**

Substance is not listed.

- . **GHS label elements** Void

- . **Hazard pictograms** Void

- . **Signal word** Void

- . **Hazard statements** Void

- . **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- . **Department issuing SDS:** Environment and safety department (U+S)

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Trade name: GRILTEX 6E P 82

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. Contact:

Abteilung Umweltschutz und Sicherheit
Tel.: +41 81 632 78 88 Fax: +41 81 632 76 65
E-Mail: produktsicherheit@emsservices.ch

. Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative

. * Data compared to the previous version altered.

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according to ISO 11014 and 29 CFR 1910.1200

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1 Identification

- . **Product identifier**
- . **Trade name:** GRILTEX 6E P 1
- . **Article number:** 135089
- . **Application of the substance / the mixture** Hotmelt adhesives
- . **Details of the supplier of the safety data sheet**
- . **Manufacturer/Supplier:**
EMS-GRILTECH CH-7013 Domat/Ems
Tel.+41 81 632 72 02, Fax +41 81 632 74 02
info@emsgriltech.com
- . **Information department:**
Abteilung Umweltschutz und Sicherheit
Tel.: +41 81 632 78 88 Fax: +41 81 632 76 65
E-Mail: produktsicherheit@emsservices.ch
- . **Emergency telephone number:**
EMS-CHEMIE AG CH-7013 Domat/Ems
Phone: +41 81 632 78 88 Fax: +41 81 632 76 65
Poison Center Switzerland Zürich Phone: +41 44 251 51 51

2 Hazard(s) identification

- . **Classification of the substance or mixture**
The substance is not classified according to the Globally Harmonized System (GHS).
- . **Label elements**
- . **GHS label elements** Void
- . **Hazard pictograms** Void
- . **Signal word** Void
- . **Hazard statements** Void
- . **Classification system:**
- . **NFPA ratings (scale 0 - 4)**



- . **HMIS-ratings (scale 0 - 4)**

HEALTH	0	Health = 0
FIRE	1	Fire = 1
REACTIVITY	0	Reactivity = 0

- . **Other hazards**
- . **Results of PBT and vPvB assessment**
- . **PBT:** Not applicable.

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Trade name: GRILTEX 6E P 1

. vPvB: Not applicable.

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3 Composition/information on ingredients

- . **Chemical characterization: Substance**
- . **CAS No. Description**
Copolyester

4 First-aid measures

- . **Description of first aid measures**
- . **General information:** No special measures required.
- . **After inhalation:** Seek medical treatment in case of complaints.
- . **After skin contact:**
After contact with the molten product, cool rapidly with cold water.
Do not pull solidified product away from the skin.
Generally the product does not irritate the skin.
- . **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- . **After swallowing:** If symptoms persist consult doctor.
- . **Information for doctor:**
- . **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- . **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- . **Extinguishing media**
- . **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- . **Special hazards arising from the substance or mixture**
In case of fire, the following can be released:
Carbon monoxide (CO)
Carbon dioxide (CO₂)
- . **Advice for firefighters**
- . **Protective equipment:** Use self-contained breathing apparatus and protective fire fighting clothing.
- . **Additional information**
Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

- . **Personal precautions, protective equipment and emergency procedures** Not required.
- . **Environmental precautions:** No special measures required.
- . **Methods and material for containment and cleaning up:** Pick up mechanically.
- . **Reference to other sections**
See Section 7 for information on safe handling.

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Trade name: GRILTEX 6E P 1

See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

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7 Handling and storage

- . **Handling:**
- . **Precautions for safe handling** No special measures required.
- . **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Dust can combine with air to form an explosive mixture.
- . **Conditions for safe storage, including any incompatibilities**
- . **Storage:**
- . **Requirements to be met by storerooms and receptacles:** No special requirements.
- . **Information about storage in one common storage facility:** Not required.
- . **Further information about storage conditions:** None.
- . **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- . **Additional information about design of technical systems:** No further data; see item 7.
- . **Control parameters**
- . **Components with limit values that require monitoring at the workplace:**
National workplace exposure limits for airborne particles (respirable and inhalable dust) have to be observed.
- . **Exposure controls**
- . **Personal protective equipment:**
- . **General protective and hygienic measures:**
The usual precautionary measures for handling chemicals should be followed.
- . **Breathing equipment:** Not required.
- . **Protection of hands:** Protective gloves
- . **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- . **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- . **Eye protection:** Safety glasses
- . **Body protection:** Protective work clothing

9 Physical and chemical properties

- . **Information on basic physical and chemical properties**
- . **General Information**
- . **Appearance:**
Form: Powder

(Contd. on page 4)

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according to ISO 11014 and 29 CFR 1910.1200

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Reviewed on 09/04/2015

Trade name: GRILTEX 6E P 1

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Color:	White
Odor:	Nearly odorless
Change in condition	
Melting point/Melting range:	110-160 °C (230-320 °F)
Boiling point/Boiling range:	Not determined.
Flash point:	Not applicable.
Decomposition temperature:	> 300 °C (> 572 °F)
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Risk of dust explosion
Density at 20 °C (68 °F):	> 1.0 g/cm ³ (> 8.345 lbs/gal)
Solubility in / Miscibility with	
Water:	Insoluble.
Other information	No further relevant information available.

10 Stability and reactivity

- . **Reactivity** Reacts with strong acids and oxidizing agents.
- . **Chemical stability** No decomposition if used and stored according to specifications.
- . **Possibility of hazardous reactions** Risk of dust explosion.
- . **Conditions to avoid** No further relevant information available.
- . **Incompatible materials:** No further relevant information available.
- . **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- . **Information on toxicological effects**
- . **Acute toxicity:**
- . **Primary irritant effect:**
- . **on the skin:** No irritant effect.
- . **on the eye:** No irritant effect.
- . **Sensitization:** No sensitizing effects known.
- . **Additional toxicological information:**
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

- . **Carcinogenic categories**

- . **IARC (International Agency for Research on Cancer)**

Substance is not listed.

- . **NTP (National Toxicology Program)**

Substance is not listed.

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Trade name: GRILTEX 6E P 1

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. OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

12 Ecological information

- . **Toxicity**
- . **Aquatic toxicity:** No further relevant information available.
- . **Persistence and degradability** No further relevant information available.
- . **Behavior in environmental systems:**
- . **Bioaccumulative potential** No further relevant information available.
- . **Mobility in soil** No further relevant information available.
- . **Additional ecological information:**
- . **General notes:** Generally not hazardous for water
- . **Results of PBT and vPvB assessment**
- . **PBT:** Not applicable.
- . **vPvB:** Not applicable.
- . **Other adverse effects** No further relevant information available.

13 Disposal considerations

- . **Waste treatment methods**
- . **Recommendation:**
On the basis of the necessary technical regulations and after consultation with the disposal agent and the relevant authorities, can be disposed of with domestic waste or incinerated with domestic waste.
- . **Uncleaned packagings:**
- . **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- | | |
|-------------------------------------|------|
| . UN-Number | |
| . DOT, ADR, ADN, IMDG, IATA | Void |
| . UN proper shipping name | |
| . DOT, ADN, IMDG, IATA | Void |
| . ADR | Void |
| . Transport hazard class(es) | |
| . DOT, ADR, ADN, IMDG, IATA | |
| . Class | Void |
| . Packing group | |
| . DOT, ADR, IMDG, IATA | Void |
| . Environmental hazards: | |
| . Marine pollutant: | No |

(Contd. on page 6)

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Reviewed on 09/04/2015

Trade name: GRILTEX 6E P 1

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. Special precautions for user	Not applicable.
. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
. Transport/Additional information:	Not dangerous according to ADR/RID/IMDG/IATA.
. UN "Model Regulation":	Void

15 Regulatory information

- . **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- . **Sara**

- . **Section 355 (extremely hazardous substances):**

Substance is not listed.

- . **Section 313 (Specific toxic chemical listings):**

Substance is not listed.

- . **TSCA (Toxic Substances Control Act):**

Substance is listed.

- . **Proposition 65**

- . **Chemicals known to cause cancer:**

Substance is not listed.

- . **Chemicals known to cause reproductive toxicity for females:**

Substance is not listed.

- . **Chemicals known to cause reproductive toxicity for males:**

Substance is not listed.

- . **Chemicals known to cause developmental toxicity:**

Substance is not listed.

- . **Carcinogenicity categories**

- . **EPA (Environmental Protection Agency)**

Substance is not listed.

- . **NIOSH-Ca (National Institute for Occupational Safety and Health)**

Substance is not listed.

- . **GHS label elements** Void

- . **Hazard pictograms** Void

- . **Signal word** Void

- . **Hazard statements** Void

- . **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- . **Department issuing SDS:** Environment and safety department (U+S)

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Trade name: GRILTEX 6E P 1

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. Contact:

Abteilung Umweltschutz und Sicherheit
Tel.: +41 81 632 78 88 Fax: +41 81 632 76 65
E-Mail: produktsicherheit@emsservices.ch

. Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative

. * Data compared to the previous version altered.

US

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1 Identification

- . **Product identifier**
- . **Trade name:** GRILTEX D 1682E P 82/019
- . **Article number:** 162868
- . **Application of the substance / the mixture** Hotmelt adhesives
- . **Details of the supplier of the safety data sheet**
- . **Manufacturer/Supplier:**
EMS-GRILTECH CH-7013 Domat/Ems
Tel.+41 81 632 72 02, Fax +41 81 632 74 02
info@emsgriltech.com
- . **Information department:**
Abteilung Umweltschutz und Sicherheit
Tel.: +41 81 632 78 88 Fax: +41 81 632 76 65
E-Mail: produktsicherheit@emsservices.ch
- . **Emergency telephone number:**
EMS-CHEMIE AG CH-7013 Domat/Ems
Phone: +41 81 632 78 88 Fax: +41 81 632 76 65
Poison Center Switzerland Zürich Phone: +41 44 251 51 51

2 Hazard(s) identification

- . **Classification of the substance or mixture**
The substance is not classified according to the Globally Harmonized System (GHS).
- . **Label elements**
- . **GHS label elements** Void
- . **Hazard pictograms** Void
- . **Signal word** Void
- . **Hazard statements** Void
- . **Classification system:**
- . **NFPA ratings (scale 0 - 4)**



- . **HMIS-ratings (scale 0 - 4)**

HEALTH	0	Health = 0
FIRE	1	Fire = 1
REACTIVITY	0	Reactivity = 0

- . **Other hazards**
- . **Results of PBT and vPvB assessment**
- . **PBT:** Not applicable.

(Contd. on page 2)

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Trade name: GRILTEX D 1682E P 82/019

. **vPvB:** Not applicable.

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3 Composition/information on ingredients

- . **Chemical characterization: Substance**
- . **CAS No. Description**
Copolyester

4 First-aid measures

- . **Description of first aid measures**
- . **General information:** No special measures required.
- . **After inhalation:** Seek medical treatment in case of complaints.
- . **After skin contact:**
After contact with the molten product, cool rapidly with cold water.
Do not pull solidified product away from the skin.
Generally the product does not irritate the skin.
- . **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- . **After swallowing:** If symptoms persist consult doctor.
- . **Information for doctor:**
- . **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- . **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- . **Extinguishing media**
- . **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- . **Special hazards arising from the substance or mixture**
In case of fire, the following can be released:
Carbon monoxide (CO)
Carbon dioxide (CO₂)
- . **Advice for firefighters**
- . **Protective equipment:** Use self-contained breathing apparatus and protective fire fighting clothing.
- . **Additional information**
Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

- . **Personal precautions, protective equipment and emergency procedures** Not required.
- . **Environmental precautions:** No special measures required.
- . **Methods and material for containment and cleaning up:** Pick up mechanically.
- . **Reference to other sections**
See Section 7 for information on safe handling.

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See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

(Contd. of page 2)

7 Handling and storage

- . **Handling:**
- . **Precautions for safe handling** No special measures required.
- . **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Dust can combine with air to form an explosive mixture.
- . **Conditions for safe storage, including any incompatibilities**
- . **Storage:**
- . **Requirements to be met by storerooms and receptacles:** No special requirements.
- . **Information about storage in one common storage facility:** Not required.
- . **Further information about storage conditions:** None.
- . **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- . **Additional information about design of technical systems:** No further data; see item 7.
- . **Control parameters**
- . **Components with limit values that require monitoring at the workplace:**
National workplace exposure limits for airborne particles (respirable and inhalable dust) have to be observed.
- . **Exposure controls**
- . **Personal protective equipment:**
- . **General protective and hygienic measures:**
The usual precautionary measures for handling chemicals should be followed.
- . **Breathing equipment:** Not required.
- . **Protection of hands:** Protective gloves
- . **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- . **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- . **Eye protection:** Safety glasses
- . **Body protection:** Protective work clothing

9 Physical and chemical properties

- . **Information on basic physical and chemical properties**
- . **General Information**
- . **Appearance:**
Form: Powder

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Trade name: GRILTEX D 1682E P 82/019

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Color:	White
Odor:	Nearly odorless
Change in condition	
Melting point/Melting range:	110-160 °C (230-320 °F)
Boiling point/Boiling range:	Not determined.
Flash point:	Not applicable.
Decomposition temperature:	> 300 °C (> 572 °F)
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Risk of dust explosion
Density at 20 °C (68 °F):	> 1.0 g/cm ³ (> 8.345 lbs/gal)
Solubility in / Miscibility with	
Water:	Insoluble.
Other information	No further relevant information available.

10 Stability and reactivity

- . **Reactivity** Reacts with strong acids and oxidizing agents.
- . **Chemical stability** No decomposition if used and stored according to specifications.
- . **Possibility of hazardous reactions** Risk of dust explosion.
- . **Conditions to avoid** No further relevant information available.
- . **Incompatible materials:** No further relevant information available.
- . **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- . **Information on toxicological effects**
- . **Acute toxicity:**
- . **Primary irritant effect:**
- . **on the skin:** No irritant effect.
- . **on the eye:** No irritant effect.
- . **Sensitization:** No sensitizing effects known.
- . **Additional toxicological information:**
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.
- . **Carcinogenic categories**
- . **IARC (International Agency for Research on Cancer)**
Substance is not listed.
- . **NTP (National Toxicology Program)**
Substance is not listed.

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. OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

12 Ecological information

- . **Toxicity**
- . **Aquatic toxicity:** No further relevant information available.
- . **Persistence and degradability** No further relevant information available.
- . **Behavior in environmental systems:**
- . **Bioaccumulative potential** No further relevant information available.
- . **Mobility in soil** No further relevant information available.
- . **Additional ecological information:**
- . **General notes:** Generally not hazardous for water
- . **Results of PBT and vPvB assessment**
- . **PBT:** Not applicable.
- . **vPvB:** Not applicable.
- . **Other adverse effects** No further relevant information available.

13 Disposal considerations

- . **Waste treatment methods**
- . **Recommendation:**
On the basis of the necessary technical regulations and after consultation with the disposal agent and the relevant authorities, can be disposed of with domestic waste or incinerated with domestic waste.
- . **Uncleaned packagings:**
- . **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- | | |
|-------------------------------------|------|
| . UN-Number | |
| . DOT, ADR, ADN, IMDG, IATA | Void |
| . UN proper shipping name | |
| . DOT, ADN, IMDG, IATA | Void |
| . ADR | Void |
| . Transport hazard class(es) | |
| . DOT, ADR, ADN, IMDG, IATA | |
| . Class | Void |
| . Packing group | |
| . DOT, ADR, IMDG, IATA | Void |
| . Environmental hazards: | |
| . Marine pollutant: | No |

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. Special precautions for user	Not applicable.
. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
. Transport/Additional information:	Not dangerous according to ADR/RID/IMDG/IATA.
. UN "Model Regulation":	Void

15 Regulatory information

- . **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- . **Sara**

- . **Section 355 (extremely hazardous substances):**

Substance is not listed.

- . **Section 313 (Specific toxic chemical listings):**

Substance is not listed.

- . **TSCA (Toxic Substances Control Act):**

Substance is listed.

- . **Proposition 65**

- . **Chemicals known to cause cancer:**

Substance is not listed.

- . **Chemicals known to cause reproductive toxicity for females:**

Substance is not listed.

- . **Chemicals known to cause reproductive toxicity for males:**

Substance is not listed.

- . **Chemicals known to cause developmental toxicity:**

Substance is not listed.

- . **Carcinogenicity categories**

- . **EPA (Environmental Protection Agency)**

Substance is not listed.

- . **NIOSH-Ca (National Institute for Occupational Safety and Health)**

Substance is not listed.

- . **GHS label elements** Void

- . **Hazard pictograms** Void

- . **Signal word** Void

- . **Hazard statements** Void

- . **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- . **Department issuing SDS:** Environment and safety department (U+S)

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Trade name: GRILTEX D 1682E P 82/019

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Contact:

Abteilung Umweltschutz und Sicherheit
Tel.: +41 81 632 78 88 Fax: +41 81 632 76 65
E-Mail: produktsicherheit@emsservices.ch

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative

*** Data compared to the previous version altered.**

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1 Identification

- . **Product identifier**
- . **Trade name:** GRILTEX 8E P 1
- . **Article number:** 165077
- . **Application of the substance / the mixture** Hotmelt adhesives
- . **Details of the supplier of the safety data sheet**
- . **Manufacturer/Supplier:**
EMS-GRILTECH CH-7013 Domat/Ems
Tel.+41 81 632 72 02, Fax +41 81 632 74 02
info@emsgriltech.com
- . **Information department:**
Abteilung Umweltschutz und Sicherheit
Tel.: +41 81 632 78 88 Fax: +41 81 632 76 65
E-Mail: produktsicherheit@emsservices.ch
- . **Emergency telephone number:**
EMS-CHEMIE AG CH-7013 Domat/Ems
Phone: +41 81 632 78 88 Fax: +41 81 632 76 65
Poison Center Switzerland Zürich Phone: +41 44 251 51 51

2 Hazard(s) identification

- . **Classification of the substance or mixture**
The substance is not classified according to the Globally Harmonized System (GHS).
- . **Label elements**
- . **GHS label elements** Void
- . **Hazard pictograms** Void
- . **Signal word** Void
- . **Hazard statements** Void
- . **Classification system:**
- . **NFPA ratings (scale 0 - 4)**



- . **HMIS-ratings (scale 0 - 4)**

HEALTH	0	Health = 0
FIRE	1	Fire = 1
REACTIVITY	0	Reactivity = 0

- . **Other hazards**
- . **Results of PBT and vPvB assessment**
- . **PBT:** Not applicable.

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. vPvB: Not applicable.

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3 Composition/information on ingredients

- . **Chemical characterization: Substance**
- . **CAS No. Description**
Copolyester

4 First-aid measures

- . **Description of first aid measures**
- . **General information:** No special measures required.
- . **After inhalation:** Seek medical treatment in case of complaints.
- . **After skin contact:**
After contact with the molten product, cool rapidly with cold water.
Do not pull solidified product away from the skin.
Generally the product does not irritate the skin.
- . **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- . **After swallowing:** If symptoms persist consult doctor.
- . **Information for doctor:**
- . **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- . **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- . **Extinguishing media**
- . **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- . **Special hazards arising from the substance or mixture**
In case of fire, the following can be released:
Carbon monoxide (CO)
Carbon dioxide (CO₂)
- . **Advice for firefighters**
- . **Protective equipment:** Use self-contained breathing apparatus and protective fire fighting clothing.
- . **Additional information**
Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

- . **Personal precautions, protective equipment and emergency procedures** Not required.
- . **Environmental precautions:** No special measures required.
- . **Methods and material for containment and cleaning up:** Pick up mechanically.
- . **Reference to other sections**
See Section 7 for information on safe handling.

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See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

(Contd. of page 2)

7 Handling and storage

- . **Handling:**
- . **Precautions for safe handling** No special measures required.
- . **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Dust can combine with air to form an explosive mixture.
- . **Conditions for safe storage, including any incompatibilities**
- . **Storage:**
- . **Requirements to be met by storerooms and receptacles:** No special requirements.
- . **Information about storage in one common storage facility:** Not required.
- . **Further information about storage conditions:** None.
- . **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- . **Additional information about design of technical systems:** No further data; see item 7.
- . **Control parameters**
- . **Components with limit values that require monitoring at the workplace:**
National workplace exposure limits for airborne particles (respirable and inhalable dust) have to be observed.
- . **Exposure controls**
- . **Personal protective equipment:**
- . **General protective and hygienic measures:**
The usual precautionary measures for handling chemicals should be followed.
- . **Breathing equipment:** Not required.
- . **Protection of hands:** Protective gloves
- . **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- . **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- . **Eye protection:** Safety glasses
- . **Body protection:** Protective work clothing

9 Physical and chemical properties

- . **Information on basic physical and chemical properties**
- . **General Information**
- . **Appearance:**
Form: Powder

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Reviewed on 09/04/2015

Trade name: GRILTEX 8E P 1

(Contd. of page 3)

Color:	White
Odor:	Nearly odorless
Change in condition	
Melting point/Melting range:	110-160 °C (230-320 °F)
Boiling point/Boiling range:	Not determined.
Flash point:	Not applicable.
Decomposition temperature:	> 300 °C (> 572 °F)
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Risk of dust explosion
Density at 20 °C (68 °F):	> 1.0 g/cm ³ (> 8.345 lbs/gal)
Solubility in / Miscibility with	
Water:	Insoluble.
Other information	No further relevant information available.

10 Stability and reactivity

- . **Reactivity** Reacts with strong acids and oxidizing agents.
- . **Chemical stability** No decomposition if used and stored according to specifications.
- . **Possibility of hazardous reactions** Risk of dust explosion.
- . **Conditions to avoid** No further relevant information available.
- . **Incompatible materials:** No further relevant information available.
- . **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- . **Information on toxicological effects**
- . **Acute toxicity:**
- . **Primary irritant effect:**
- . **on the skin:** No irritant effect.
- . **on the eye:** No irritant effect.
- . **Sensitization:** No sensitizing effects known.
- . **Additional toxicological information:**
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

- . **Carcinogenic categories**

- . **IARC (International Agency for Research on Cancer)**

Substance is not listed.

- . **NTP (National Toxicology Program)**

Substance is not listed.

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Trade name: GRILTEX 8E P 1

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. OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

12 Ecological information

- . **Toxicity**
- . **Aquatic toxicity:** No further relevant information available.
- . **Persistence and degradability** No further relevant information available.
- . **Behavior in environmental systems:**
- . **Bioaccumulative potential** No further relevant information available.
- . **Mobility in soil** No further relevant information available.
- . **Additional ecological information:**
- . **General notes:** Generally not hazardous for water
- . **Results of PBT and vPvB assessment**
- . **PBT:** Not applicable.
- . **vPvB:** Not applicable.
- . **Other adverse effects** No further relevant information available.

13 Disposal considerations

- . **Waste treatment methods**
- . **Recommendation:**
On the basis of the necessary technical regulations and after consultation with the disposal agent and the relevant authorities, can be disposed of with domestic waste or incinerated with domestic waste.
- . **Uncleaned packagings:**
- . **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- | | |
|-------------------------------------|------|
| . UN-Number | |
| . DOT, ADR, ADN, IMDG, IATA | Void |
| . UN proper shipping name | |
| . DOT, ADN, IMDG, IATA | Void |
| . ADR | Void |
| . Transport hazard class(es) | |
| . DOT, ADR, ADN, IMDG, IATA | |
| . Class | Void |
| . Packing group | |
| . DOT, ADR, IMDG, IATA | Void |
| . Environmental hazards: | |
| . Marine pollutant: | No |

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Reviewed on 09/04/2015

Trade name: GRILTEX 8E P 1

(Contd. of page 5)

. Special precautions for user	Not applicable.
. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
. Transport/Additional information:	Not dangerous according to ADR/RID/IMDG/IATA.
. UN "Model Regulation":	Void

15 Regulatory information

- . **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- . **Sara**

- . **Section 355 (extremely hazardous substances):**

Substance is not listed.

- . **Section 313 (Specific toxic chemical listings):**

Substance is not listed.

- . **TSCA (Toxic Substances Control Act):**

Substance is listed.

- . **Proposition 65**

- . **Chemicals known to cause cancer:**

Substance is not listed.

- . **Chemicals known to cause reproductive toxicity for females:**

Substance is not listed.

- . **Chemicals known to cause reproductive toxicity for males:**

Substance is not listed.

- . **Chemicals known to cause developmental toxicity:**

Substance is not listed.

- . **Carcinogenicity categories**

- . **EPA (Environmental Protection Agency)**

Substance is not listed.

- . **NIOSH-Ca (National Institute for Occupational Safety and Health)**

Substance is not listed.

- . **GHS label elements** Void

- . **Hazard pictograms** Void

- . **Signal word** Void

- . **Hazard statements** Void

- . **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- . **Department issuing SDS:** Environment and safety department (U+S)

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. Contact:

Abteilung Umweltschutz und Sicherheit
Tel.: +41 81 632 78 88 Fax: +41 81 632 76 65
E-Mail: produktsicherheit@emsservices.ch

. Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative

. * Data compared to the previous version altered.

US