

SAFETY DATA SHEETS

This SDS packet was issued with item:

078915039

N/A



SAFETY DATA SHEET

122000007121

TEMPO 1% Dust Insecticide

Version 1.2

Revision Date 02/08/2011

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**Product information**

Product Name: TEMPO 1% Dust Insecticide
MSDS Number: 122000007121

Company

BAYER HEALTHCARE LLC
Animal Health Division
12707 Shawnee Mission Parkway
(West 63rd)
Shawnee, KS 66216-1846
UNITED STATES
(800) 633-3796

In case of emergency: (800) 422-9874
Chemtec: (800) 424-9300
BAYER INFORMATION PHONE: (800) 633-3796
INTERNATIONAL: (703) 527-3887

2. HAZARDS IDENTIFICATION**Emergency Overview**

WARNING! **Colour:** white **Form:** solid powder **Odour:** musty.
Toxic to fish. May be harmful if inhaled. May cause respiratory tract irritation. Causes skin irritation. May cause eye irritation. May cause lung damage.

Hazard Communication (29CFR 1910.1200)

Eye Contact Inhalation Skin Contact

Acute Skin Hazards

Slightly toxic by skin absorption. May cause slight irritation. Paraesthesia (a tingling or burning sensation on the surface of the skin) may result from skin contact with synthetic pyrethroids and normally subsides without treatment within 24 hours.

Acute Eye Hazards

May cause slight irritation.

Chronic Effects of Exposure

This product is not listed as a carcinogen by ACGIH, NTP, IARC, or OSHA. However, it may contain crystalline silica (quartz), which has been listed as a carcinogen by ACGIH, NTP, and IARC. crystalline silica is a naturally occurring mineral component of many sands

SAFETY DATA SHEET

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and clays. Although the carcinogenic potential of crystallin silica in humans is controversial, it must be considered if it is inhaled under excessive exposure conditions. the respirable portion of the silica that may be contained in this product, however, is small such that inhalation exposure during anticipated conditions of use is minimal.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients:		
Weight percent	Components	CAS-No.
60 - 100%	Tradeseecret	
3 - 7%	Tradeseecret	
3 - 7%	Quartz	14808-60-7
1 - 5%	Tradeseecret	
1 - 5%	Tradeseecret	
1 - 5%	Cyfluthrin	68359-37-5

4. FIRST AID MEASURES

General advice: Take off all contaminated clothing immediately.

If inhaled: Remove to fresh air. If symptoms persist, call a physician.

In case of skin contact: After contact with skin, wash immediately with plenty of soap and water. If skin reactions occur, contact a physician.

In case of eye contact: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

If swallowed: If swallowed, seek medical advice immediately and show this container or label.

Contact Number: Use the Bayer Emergency Number in Section 1

SAFETY DATA SHEET
TEMPO 1% Dust Insecticide

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5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Any

Specific hazards during fire fighting: Fire may cause evolution of: Carbon monoxide Carbon dioxide (CO₂)

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

Further information: Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Use personal protective equipment.

Methods for cleaning up: Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

Additional advice: Avoid dust formation.

Further Accidental Release Notes Avoid dust formation.

7. HANDLING AND STORAGE

Handling:

Avoid dust formation. Only handle product with local exhaust ventilation. Avoid contact with skin, eyes and clothing.

Take measures to prevent the build up of electrostatic charge. Keep away from open flames, hot surfaces and sources of ignition.

Storage:

Storage temperature: 0 - 100 °F (-17.78 - 37.78 °C)

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Tradesecret

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
PEL: 5 mg/m³ (Respirable fraction.)

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
PEL: 15 mg/m³ (Total dust.)

SAFETY DATA SHEET
TEMPO 1% Dust Insecticide

122000007121

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US. NIOSH: Pocket Guide to Chemical Hazards
Recommended exposure limit (REL): 5 mg/m³ (Respirable.)
US. NIOSH: Pocket Guide to Chemical Hazards
Recommended exposure limit (REL): 10 mg/m³ (Total)

Quartz (14808-60-7)

US. ACGIH Threshold Limit Values
Time Weighted Average (TWA): 0.025 mg/m³ (Respirable fraction.)
US. NIOSH: Pocket Guide to Chemical Hazards
Recommended exposure limit (REL): 0.05 mg/m³ (Respirable dust.)
US. ACGIH Threshold Limit Values
Hazard Designation: Suspected human carcinogen.

Tradesecret

US. NIOSH: Pocket Guide to Chemical Hazards
Recommended exposure limit (REL): 6 mg/m³

Cyfluthrin (68359-37-5)

Respiratory protection:
Recommended Filter type: HEPA

Hand protection:
Chemically resistant gloves.

Eye protection:
Safety glasses

Other protective measures:
Wear suitable protective equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	powder
Colour:	white
Odour:	musty
Density:	no data available
Bulk density:	no data available
Vapour pressure:	not applicable
Water solubility:	insoluble
pH:	no data available
Partition coefficient (n-octanol/water):	no data available
Solubility in organic solvents:	no data available
Ignition temperature:	no data available

SAFETY DATA SHEET
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10. STABILITY AND REACTIVITY

Conditions to avoid: no data available

Materials to avoid: Oxidizing agents

Hazardous reactions: None known.

Thermal decomposition:

ca. 500 °C

Hazardous decomposition products:

Carbon monoxide, Carbon dioxide (CO₂)

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity:

LD50 rat , male : 3,084 mg/kg

Test substance: Data is for a more concentrated product.

LD50 rat , female : 1,733 mg/kg

Test substance: Data is for a more concentrated product.

Acute inhalation toxicity:

rat: > 1.18 mg/l, 4 h

Test substance: Data is for a more concentrated product.

Acute dermal toxicity:

LD50 rabbit: > 2,000 mg/kg

Test substance: Data is for a more concentrated product.

Skin irritation:

rabbit

Result: slight irritation

Test substance: Data is for a more concentrated product.

Eye irritation:

rabbit

Result: Slightly irritating

Test substance: Data is for a more concentrated product.

Sensitisation:

guinea pig

Result: Non-sensitizer

Test substance: Data is for a more concentrated product.

12. ECOLOGICAL INFORMATION

SAFETY DATA SHEET
TEMPO 1% Dust Insecticide

122000007121

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General advice:

Do not allow to enter surface waters or groundwater.

Toxicity to fish:

Cyfluthrin

Acute Fish toxicity: LC50 0.00047 mg/l

Test species: Oncorhynchus mykiss (rainbow trout) Duration of test: 96 h

Acute Fish toxicity: LC50 0.0032 mg/l

Test species: Leuciscus idus (Golden orfe) Duration of test: 96 h

Acute Fish toxicity: LC50 0.0032 mg/l

Test species: Lepomis macrochirus (Bluegill) Duration of test: 96 h

Tradesecret

Acute Fish toxicity: LC50 > 10,000 mg/l

Test species: Danio rerio / Brachydanio rerio (zebra fish) Duration of test: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates:

Cyfluthrin

EC50 0.00016 mg/l

Test species: Daphnia magna (Water flea) Duration of test: 48 h

Tradesecret

EC50 > 10,000 mg/l

Test species: Daphnia magna (Water flea) Duration of test: 48 h

Method: OECD Test Guideline 202

Toxicity to algae:

Cyfluthrin

IC50 > 10 mg/l

tested on: Desmodesmus subspicatus (Green algae) Duration of test: 72 h

Toxicity to bacteria:

Cyfluthrin

EC50 > 10,000 mg/l

tested on: activated sludge micro-organism

Method: OECD TG 209

Biodegradability:

Cyfluthrin

Readily biodegradable.

Bioaccumulation:

Cyfluthrin

Bioconcentration factor (BCF)

506

SAFETY DATA SHEET
TEMPO 1% Dust Insecticide

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13. DISPOSAL CONSIDERATIONS

If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

Waste disposal should be in accordance with existing federal, state and local environmental control laws.

14. TRANSPORT INFORMATION

Land transport (DOT)
Non-Regulated

Inland waterway transport
Non-Regulated

Railway transport
Non-Regulated

Sea transport (IMDG)
Non-Regulated

Air transport (ICAO / IATA cargo aircraft only)
Non-Regulated

Air transport (ICAO / IATA passenger and cargo aircraft)
Non-Regulated

15. REGULATORY INFORMATION

FIFRA Status	This product is registered with the EPA under FIFRA.
US. Toxic Substances Control Act	This product is excluded from TSCA Regulation under FIFRA Section 3 (2)(B)(ii) when used as a pesticide.

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)
Components
None

SARA Section 311/312 Hazard Categories	Immediate Health Hazard, Delayed Health Hazard
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US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required
Components
Cyfluthrin

SAFETY DATA SHEET
TEMPO 1% Dust Insecticide

122000007121

Version 1.2

Revision Date 02/08/2011

US. EPA CERCLA Hazardous Substances (40 CFR 302) Components

None

Massachusetts, New Jersey or Pennsylvania Right to Know Substance Lists

Weight percent	Components	CAS-No.
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60 - 100%	Tradeseecret	
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3 - 7%	Tradeseecret	
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1 - 5%	Tradeseecret	
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3 - 7%		
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California Prop. 65

WARNING! This product contains a chemical known to the State of California to cause cancer, birth defects or other reproductive harm. Carcinogenic.

Weight percent	Components	CAS-No.
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1 - 5%	Tradeseecret	
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<0.001%	Tradeseecret	
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3 - 7%	Quartz	14808-60-7
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OSHA Hazcom Standard Rating Hazardous

16. OTHER INFORMATION

NFPA 704M Rating

Health	2
Flammability	1
Reactivity	0
Other	

0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme

Further information

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.



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WARNING! Colour: white **Form:** solid powder **Odour:** musty.
Toxic to fish. May be harmful if inhaled. May cause respiratory tract irritation. Causes skin irritation. May cause eye irritation. May cause lung damage.

Hazard Communication (29CFR 1910.1200)

Eye Contact Inhalation Skin Contact

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Slightly toxic by skin absorption. May cause slight irritation. Paraesthesia (a tingling or burning sensation on the surface of the skin) may result from skin contact with synthetic pyrethroids and normally subsides without treatment within 24 hours.

Acute Eye Hazards

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Chronic Effects of Exposure

This product is not listed as a carcinogen by ACGIH, NTP, IARC, or OSHA. However, it may contain crystalline silica (quartz), which has been listed as a carcinogen by ACGIH, NTP, and IARC. crystalline silica is a naturally occurring mineral component of many sands

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients:		
Weight percent	Components	CAS-No.
60 - 100%	Tradeseecret	
3 - 7%	Tradeseecret	
3 - 7%	Quartz	14808-60-7
1 - 5%	Tradeseecret	
1 - 5%	Tradeseecret	
1 - 5%	Cyfluthrin	68359-37-5

4. FIRST AID MEASURES

General advice: Take off all contaminated clothing immediately.

If inhaled: Remove to fresh air. If symptoms persist, call a physician.

In case of skin contact: After contact with skin, wash immediately with plenty of soap and water. If skin reactions occur, contact a physician.

In case of eye contact: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

If swallowed: If swallowed, seek medical advice immediately and show this container or label.

Contact Number: Use the Bayer Emergency Number in Section 1

SAFETY DATA SHEET
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5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Any

Specific hazards during fire fighting: Fire may cause evolution of: Carbon monoxide Carbon dioxide (CO₂)

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

Further information: Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Use personal protective equipment.

Methods for cleaning up: Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

Additional advice: Avoid dust formation.

Further Accidental Release Notes Avoid dust formation.

7. HANDLING AND STORAGE

Handling:

Avoid dust formation. Only handle product with local exhaust ventilation. Avoid contact with skin, eyes and clothing.

Take measures to prevent the build up of electrostatic charge. Keep away from open flames, hot surfaces and sources of ignition.

Storage:

Storage temperature: 0 - 100 °F (-17.78 - 37.78 °C)

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Tradesecret

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

 PEL: 5 mg/m³ (Respirable fraction.)

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

 PEL: 15 mg/m³ (Total dust.)

SAFETY DATA SHEET
TEMPO 1% Dust Insecticide

122000007121

Version 1.2

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US. NIOSH: Pocket Guide to Chemical Hazards
Recommended exposure limit (REL): 5 mg/m³ (Respirable.)
US. NIOSH: Pocket Guide to Chemical Hazards
Recommended exposure limit (REL): 10 mg/m³ (Total)

Quartz (14808-60-7)

US. ACGIH Threshold Limit Values
Time Weighted Average (TWA): 0.025 mg/m³ (Respirable fraction.)
US. NIOSH: Pocket Guide to Chemical Hazards
Recommended exposure limit (REL): 0.05 mg/m³ (Respirable dust.)
US. ACGIH Threshold Limit Values
Hazard Designation: Suspected human carcinogen.

Tradesecret

US. NIOSH: Pocket Guide to Chemical Hazards
Recommended exposure limit (REL): 6 mg/m³

Cyfluthrin (68359-37-5)

Respiratory protection:
Recommended Filter type: HEPA

Hand protection:
Chemically resistant gloves.

Eye protection:
Safety glasses

Other protective measures:
Wear suitable protective equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	powder
Colour:	white
Odour:	musty
Density:	no data available
Bulk density:	no data available
Vapour pressure:	not applicable
Water solubility:	insoluble
pH:	no data available
Partition coefficient (n-octanol/water):	no data available
Solubility in organic solvents:	no data available
Ignition temperature:	no data available

SAFETY DATA SHEET
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10. STABILITY AND REACTIVITY

Conditions to avoid: no data available

Materials to avoid: Oxidizing agents

Hazardous reactions: None known.

Thermal decomposition:

ca. 500 °C

Hazardous decomposition products:

Carbon monoxide, Carbon dioxide (CO₂)

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity:

LD50 rat , male : 3,084 mg/kg

Test substance: Data is for a more concentrated product.

LD50 rat , female : 1,733 mg/kg

Test substance: Data is for a more concentrated product.

Acute inhalation toxicity:

rat: > 1.18 mg/l, 4 h

Test substance: Data is for a more concentrated product.

Acute dermal toxicity:

LD50 rabbit: > 2,000 mg/kg

Test substance: Data is for a more concentrated product.

Skin irritation:

rabbit

Result: slight irritation

Test substance: Data is for a more concentrated product.

Eye irritation:

rabbit

Result: Slightly irritating

Test substance: Data is for a more concentrated product.

Sensitisation:

guinea pig

Result: Non-sensitizer

Test substance: Data is for a more concentrated product.

12. ECOLOGICAL INFORMATION

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General advice:

Do not allow to enter surface waters or groundwater.

Toxicity to fish:

Cyfluthrin

Acute Fish toxicity: LC50 0.00047 mg/l

Test species: Oncorhynchus mykiss (rainbow trout) Duration of test: 96 h

Acute Fish toxicity: LC50 0.0032 mg/l

Test species: Leuciscus idus (Golden orfe) Duration of test: 96 h

Acute Fish toxicity: LC50 0.0032 mg/l

Test species: Lepomis macrochirus (Bluegill) Duration of test: 96 h

Tradesecret

Acute Fish toxicity: LC50 > 10,000 mg/l

Test species: Danio rerio / Brachydanio rerio (zebra fish) Duration of test: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates:

Cyfluthrin

EC50 0.00016 mg/l

Test species: Daphnia magna (Water flea) Duration of test: 48 h

Tradesecret

EC50 > 10,000 mg/l

Test species: Daphnia magna (Water flea) Duration of test: 48 h

Method: OECD Test Guideline 202

Toxicity to algae:

Cyfluthrin

IC50 > 10 mg/l

tested on: Desmodesmus subspicatus (Green algae) Duration of test: 72 h

Toxicity to bacteria:

Cyfluthrin

EC50 > 10,000 mg/l

tested on: activated sludge micro-organism

Method: OECD TG 209

Biodegradability:

Cyfluthrin

Readily biodegradable.

Bioaccumulation:

Cyfluthrin

Bioconcentration factor (BCF)

506

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13. DISPOSAL CONSIDERATIONS

If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

Waste disposal should be in accordance with existing federal, state and local environmental control laws.

14. TRANSPORT INFORMATION

Land transport (DOT)
Non-Regulated

Inland waterway transport
Non-Regulated

Railway transport
Non-Regulated

Sea transport (IMDG)
Non-Regulated

Air transport (ICAO / IATA cargo aircraft only)
Non-Regulated

Air transport (ICAO / IATA passenger and cargo aircraft)
Non-Regulated

15. REGULATORY INFORMATION

FIFRA Status	This product is registered with the EPA under FIFRA.
US. Toxic Substances Control Act	This product is excluded from TSCA Regulation under FIFRA Section 3 (2)(B)(ii) when used as a pesticide.

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)
Components
None

SARA Section 311/312 Hazard Categories	Immediate Health Hazard, Delayed Health Hazard
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US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required
Components
Cyfluthrin

SAFETY DATA SHEET

TEMPO 1% Dust Insecticide

122000007121

Version 1.2

Revision Date 02/08/2011

US. EPA CERCLA Hazardous Substances (40 CFR 302) Components

None

Massachusetts, New Jersey or Pennsylvania Right to Know Substance Lists

Weight percent	Components	CAS-No.
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60 - 100%	Tradeseecret	
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3 - 7%	Tradeseecret	
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1 - 5%	Tradeseecret	
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3 - 7%		
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California Prop. 65

WARNING! This product contains a chemical known to the State of California to cause cancer, birth defects or other reproductive harm. Carcinogenic.

Weight percent	Components	CAS-No.
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1 - 5%	Tradeseecret	
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<0.001%	Tradeseecret	
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3 - 7%	Quartz	14808-60-7
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OSHA Hazcom Standard Rating Hazardous

16. OTHER INFORMATION

NFPA 704M Rating

Health	2
Flammability	1
Reactivity	0
Other	

0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme

Further information

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.