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Section 1. Product and Company Identification

| | | |
|---|--|--|
| Product Name | : PERESEAL[®] N Neutral Seal Silicone Sealant | Emergency Telephone Number: + 65 6558 6388 |
| Chemical Name | : Oxime Silicone Sealant | Telephone number for Information: + 65 6558 6388 |
| Supplier/ Manufacturer Information | : PFE Technologies Pte Ltd 9 Gul Street 4 Singapore 629238 | Fax Number: + 65 6558 7310 |
| Contact Person | : sales@pfetech.com | |
| Email | : sales@pfetech.com | |
| Website | : www.pfetech.com | |

Section 2. Hazards Identification

Classification of the substance or mixture : SKIN SENSITIZATION – Category 1
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE)
- Category 1

GHS label elements

Hazard pictograms : 

Signal word : Danger

Hazard statements : May cause an allergic skin reaction
Causes damage to organs through prolonged or repeated exposure

Precautionary statements

General : Not applicable.

Prevention : Wear protective gloves.
Do not breathe dust.
Do not eat, drink or smoke when using this product.
Wash hands thoroughly after handling.
Contaminated work clothing should not be allowed out of the workplace.

Response : Get medical attention if you feel unwell.
IF ON SKIN:
Wash with plenty of soap and water

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Wash contaminated clothing before reuse.
If skin irritation or rash occurs:
Get medical attention.

Storage : Not applicable.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Other hazards which do not result in classification : None known.

Section 3. Composition / Information on Ingredients

Substance / mixture : Mixture
Chemical name : Not available

| Hazardous Ingredients | % by weight | CAS number |
|--|-------------|-------------|
| Distillates (petroleum), hydrotreated middle | 10 – 25 | 64742-46-7 |
| Silica, amorphous, fumed, cryst.-free | 5 – 10 | 112945-52-5 |
| 2-Butanone, 2,2',2''-[O,O',O''-(methylsilylydyne)trioxime] | 3 – 5 | 22984-54-9 |
| Octamethylcyclotetrasiloxane | 0.1 – 0.3 | 556-67-2 |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-aid Measures

Description of necessary first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention following exposure or if feeling unwell. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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Skin contact : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention following exposure or if feeling unwell. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/ effects, acute and delayed

Potential acute health effects

Eye contact : No known significant effects or critical hazards.
Inhalation : No known significant effects or critical hazards.
Skin contact : May cause an allergic skin reaction.
Ingestion : No known significant effects or critical hazards.

Potential acute health effects

Eye contact : No specific data.
Inhalation : No specific data.
Skin contact : Adverse symptoms may include the following:
irritation
redness
Ingestion : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments : Not available.

Protection of first aid personnel : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

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Section 5. Fire-Fighting Measures

Extinguishing Media

Suitable extinguishing media : Use dry chemical, CO₂, alcohol-resistant foam or water spray (fog).

Unsuitable extinguishing media : Water jet.

Specific hazards arising from the chemical : No specific fire or explosion hazard.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
metal oxide/oxides
Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation.

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Use water spray to keep fire-exposed containers cool. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Use water spray to keep fire-exposed containers cool. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

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Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and material for containment and cleaning up

Small spill : Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 of SDS for emergency contact information and section 13 of SDS for waste disposal.

Large spill : Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 of SDS for emergency contact information and section 13 of SDS for waste disposal.

Section 7. Handling and Storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see section 8 of SDS). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not breathe dust. Do not ingest. Use only with adequate ventilation. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10 of SDS) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

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Section 8. Exposure Controls / Personal Protection

Control parameters

Occupational exposure limits

| Ingredient name | Exposure limits |
|---------------------------------------|--|
| Silica, amorphous, fumed, cryst.-free | Ministry of Interior (1977-07-12) Time Weighted Average (TWA) 80 mg/m³ |

Appropriate engineering controls : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye / face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection Personal protective equipment for the body should be selected

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based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Gas mask for organic gas if MEKO exposure limits are exceeded (3 ppm 8-hr TWA, recommended workplace exposure guideline). Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and Chemical Properties

Appearance

| | |
|---|---|
| Physical state | : Solid |
| Form | : Paste |
| Colour | : Variable in colour |
| Odour | : Faint odour. |
| Odour threshold | : Not available. |
| pH | : Not available. |
| Melting point | : Not applied. |
| Boiling point | : 242- 270 °C (468 - 518 °F) Organic Solvent |
| Flash point | : Not applicable. |
| Burning time | : Not available. |
| Burning rate | : Not available. |
| Evaporation rate | : Not available. |
| Flammability (solid, gas) | : Not available. |
| Lower and upper explosive (flammable) limits | : Lower: 1.6% (V) Upper: 10.2% (V) |
| Vapour pressure | : 1 hPa @ 68 °C (154 °F) Organic Solvent |
| Vapour density | : Not available. |
| Relative density | : 1.02 @ 25 °C (77 °F) |
| Solubility | : Not available. |
| Solubility in water | : Insoluble. |
| Partition coefficient: n-octanol/ water | : Not available. |
| Auto-ignition temperature | : 211 °C (412 °F) Organic Solvent |

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Decomposition temperature : Not available.
SADT : Not available.
Viscosity : **Dynamic:** Not available
Kinematic: Not available

Other information

No additional information.

Section 10. Stability and Reactivity

Reactivity : Stable under normal conditions.
Chemical stability : The product is stable.
Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid : No specific data.
Incompatible materials : No specific data.
Hazardous decomposition products : Reacts with water/moisture liberating Methyl ethyl ketoxime (MEKO) = 2-Butanone-oxime. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological Information

Information on toxicological effects

Acute toxicity

| Product / ingredient name | Result | Species | Dose | Exposure |
|------------------------------|-----------------|---------|--|----------|
| Octamethylcyclotetrasiloxane | LD50 Oral | Rat | 4,800 mg/kg OECD-Guideline 401 (Acute Oral Toxicity) | - |
| | LC50 Inhalation | Rat | > 12.1 mg/l | 4 h |
| | LC50 Inhalation | Rat | 36 mg/l OECD Test Guideline 403 | 4 h |
| | LD50 Dermal | Rat | > 2,400 mg/kg OECD Test Guideline 402 | - |

Conclusion / Summary : Not available

Irritation / Corrosion

| Product / ingredient name | Result | Species | Score | Exposure | Observation |
|------------------------------|---|---------|-------|----------|-------------|
| Octamethylcyclotetrasiloxane | Skin OECD-Guideline 404 (Acute Dermal Irritation/Corrosion) | Rat | | | - |

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| Remarks: | Non-irritating to the skin | | | | |
| | eyes OECD-Guideline 405 (Acute Eye Irritation/Corrosion) | Rabbit | | | - |
| Remarks: | Non-irritating to the eyes. | | | | |

Conclusion / Summary

Skin : Not available
Eyes : Not available

Sensitization

| Product / ingredient name | Route of exposure | Species | Result |
|------------------------------|-------------------|------------|---|
| Octamethylcyclotetrasiloxane | - | Guinea pig | Not sensitizing OECD-Guideline 406 (Skin Sensitisation) |

Conclusion / Summary

Skin : Not available
Respiratory : Not available

Mutagenicity

| Product / ingredient name | Test | Experiment | Result |
|------------------------------|---|------------|----------|
| Octamethylcyclotetrasiloxane | OECD-Guideline 471 (Genetic Toxicology: Salmonella typhimurium, Reverse Mutation Assay) | In vitro | Negative |
| | Mouse Lymphoma Assay (OECD Guidline 476) | In vitro | Negative |
| | OECD-Guideline 474 (Genetic Toxicology: Micronucleus Test) | In vitro | Negative |

Conclusion / Summary : Not available

Carcinogenicity

| Product / ingredient name | Result | Species | Dose | Exposure |
|------------------------------|-----------------------|--------------|-------------|-----------|
| Octamethylcyclotetrasiloxane | Inhalation - OECD 453 | Rat - Female | 150 mg/kg | 24 months |
| Remarks: | NOAEC | | | |
| | Inhalation - OECD 453 | Rat - Male | > 700 mg/kg | 24 months |
| Remarks: | NOAEC | | | |

Conclusion / Summary : Not available

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Reproductive toxicity

| Product / ingredient name | Maternal toxicity | Fertility | Development toxin | Species | Dose | Exposure |
|------------------------------|-------------------|-----------|-------------------|---------|--------------------------------------|----------|
| Octamethylcyclotetrasiloxane | - | - | - | Rat | Inhalation: 300 mg/kg OECD 416 | - |
| Remarks: | NOAEL parents | | | | | |
| | - | - | - | Rat | Inhalation: 300 mg/kg OECD 416 | - |
| Remarks: | NOAEL F1 | | | | | |

Conclusion / Summary : Not available

Teratogenicity

| Product / ingredient name | Result | Species | Dose | Exposure |
|------------------------------|--|---------|-----------|----------|
| Octamethylcyclotetrasiloxane | - Inhalation OECD Test Guideline 414 | Rabbit | 500 mg/kg | 18 days |
| Remarks: | NOAEL | | | |
| | - Inhalation OECD Test Guideline 414 | Rabbit | 300 mg/kg | 18 days |
| Remarks: | NOAEL maternity | | | |

Conclusion / Summary : Not available

Specific target organ toxicity (single exposure)

Not available

Specific target organ toxicity (repeated exposure)

| Product / ingredient name | Category | Route of exposure | Target organs |
|--|------------|-------------------|-----------------------|
| 2-Butanone, 2,2',2''-[O,O',O''-(methylsilylidyne)trioxime] | Category 2 | | cardiovascular system |
| Distillates (petroleum), hydrotreated middle | Category 1 | | skin lungs |

Aspiration hazard

| Product / ingredient name | Result |
|--|--------------------------------|
| Distillates (petroleum), hydrotreated middle | ASPIRATION HAZARD - Category 1 |

Information on the likely routes of exposure : Not available.

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Potential acute health effects

Eye contact : No known significant effects or critical hazards.
Inhalation : No known significant effects or critical hazards.
Skin contact : May cause an allergic skin reaction.
Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data
Inhalation : No specific data
Skin contact : Adverse symptoms may include the following:
 irritation
 redness
Ingestion : No specific data

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.
Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.
Potential delayed effects : Not available.

Potential chronic health effects

| Product / ingredient name | Result | Species | Dose | Exposure |
|------------------------------|---------------------|---------|--------------------|-----------|
| Octamethylcyclotetrasiloxane | NOAEC Inhalation | Rat | 150 mg/kg OECD 453 | 24 months |
| Remarks: | NOAEC | | | |
| | NOAEL Dermal | Rabbit | > 1 mg/kg OECD 410 | 3 weeks |
| Remarks: | NOAEL | | | |

Conclusion / Summary : Not available.

General : Causes damage to organs through prolonged or repeated exposure: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity : No known significant effects or critical hazards.
Mutagenicity : No known significant effects or critical hazards.
Teratogenicity : No known significant effects or critical hazards.
Development effects : No known significant effects or critical hazards.
Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates : Not available

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Other information

This product will liberate methyl-ethyl-ketoxime (MEKO) on curing, contact with water or moisture in the air.

The toxicity of pure MEKO is characterized by:

Mild skin irritation, severe eye irritation, and systemic toxicity after inhalation or long term exposure. The acute inhalation 4-hr LC50 was > 4.8 mg/L.

Long-term inhalation studies (> 28 days) with 2-butanone-oxime in male rats and mice showed at concentrations of 10 ppm and higher atrophy of the mucous membrane of the nose in rats and mice. This effect is most probably due to the irritating potential of 2-butanone-oxime.

Central nervous system effects (motor function, narcotic), which were reversible, when exposure is terminated, were observed at high concentrations. Acute exposure to 400 ppm in air caused effects on blood chemistry (methemoglobinemia).

MEKO has been shown to elicit skin sensitization in Guinea pigs, but no sensitization has been reported in humans.

After life long inhalation exposure to the maximum concentration of 375 ppm liver carcinomas were observed in male rats and mice. In male rats exposed to concentrations of 75 ppm benign liver tumors were observed. The lowest test concentration of 15 ppm caused no tumors. The relevance of these tumors to humans is unknown.

Section 12. Ecological Information

Toxicity

Conclusion / Summary : Not available

Persistence / degradability

| Product / ingredient name | Test | Result | Dose | Inoculum |
|------------------------------|---|----------------------------|------|------------------|
| Octamethylcyclotetrasiloxane | 310 Ready Biodegradability - CO ₂ in Sealed Vessels (Headspace Test) | 3.7 % - 29 d | | Activated sludge |
| Remarks: | | Not readily biodegradable. | | |

Conclusion / Summary : Not available

Bioaccumulative potential

| Product / ingredient name | LogPow | BCF | Potential |
|------------------------------|--------|-------|-----------|
| Octamethylcyclotetrasiloxane | | 12.40 | low |

Mobility in soil

Soil / water partition : Not available.

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coefficient (KOC)
Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal Considerations

Disposal Methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. See Section 8 for information on appropriate personal protective equipment.

Section 14. Transport Information

Special precautions for user : This product is not regarded as dangerous goods according to the ICAO/IATA, ADR/RID, ADNR and IMDG regulations on the transport of dangerous goods.

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

Not available

Section 15. Regulatory Information

| Ingredient name | Type | Authority | Conditions |
|--|------|---|------------|
| Harmful Chemicals List I | : | Not listed | |
| Harmful Chemicals List II | : | Not listed | |
| Safety, health and environmental regulations specific for the product | : | No known specific national and/or regional regulations applicable to this product (including its ingredients). | |
| International regulations | | | |
| International lists | : | Australia inventory (AI CS) All components are listed or exempted. Canada inventory Not determined. Japan inventory All components are listed or exempted. China inventory (I ECSC) All components are listed or exempted. New Zealand Inventory (NZI oC) All components are listed or exempted. Philippines inventory (PI CCS) All components are listed or exempted. | |

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United States inventory (TSCA 8b) Q (quantity restricted)
Korea inventory All components are listed or exempted.
Taiwan inventory (CSNN) All components are listed or exempted.

Section 16. Other Information

History

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Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
UN = United Nations

References : Not available

Notice to reader

Unless otherwise specified in section 1, PFE Technologies Pte Ltd products are intended for industrial application only. They are not intended for specific medical applications, neither for long-lasting (> 30 days) implantation into the human body, injected or directly ingested, nor for the manufacture of multiple usable contraceptives.

Keep out of the reach of children.

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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