

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## Basfoliar Aktiv 40 SL

Version	Revision Date:	SDS Number:	Date of last issue: -
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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name : Basfoliar Aktiv 40 SL

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

Use of the Sub-  
stance/Mixture : Fertiliser

#### 1.3 Details of the supplier of the safety data sheet

Company : COMPO EXPERT GmbH  
Krögerweg 10  
D-48155 Münster

Telephone : +49 (0) 251 29 79 81 – 000

Telefax : +49 (0) 251 29 79 81 - 111

E-mail address of person  
responsible for the SDS : info@compo-expert.com

#### 1.4 Emergency telephone number

GBK GmbH - Global Regulatory Compliance - 24h  
Telephone: +49 (0) 6132 - 84463

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Skin irritation, Category 2	H315: Causes skin irritation.
Serious eye damage, Category 1	H318: Causes serious eye damage.

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements : H315 Causes skin irritation.

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H318      Causes serious eye damage.

Precautionary statements : **Prevention:**

P264      Wash skin thoroughly after handling.  
P280      Wear protective gloves/ eye protection/ face protection.

**Response:**

P302 + P352      IF ON SKIN: Wash with plenty of water.  
P305 + P351 + P338 + P310      IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.  
P332 + P313      If skin irritation occurs: Get medical advice/ attention.  
P362 + P364      Take off contaminated clothing and wash it before reuse.

**Hazardous components which must be listed on the label:**

Phosphonic acid, magnesium salt (2:1)  
phosphorous acid

### 2.3 Other hazards

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

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Inorganic fertiliser

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Mono-potassium phosphite	13977-65-6 604-162-9 01-2119988836-13-0022	Eye Irrit. 2; H319	>= 30 - < 50

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Phosphonic acid, magnesium salt (2:1)	13598-61-3 814-750-9 01-2120754131-66-XXXX	Eye Dam. 1; H318	>= 20 - < 30
phosphorous acid	10294-56-1 233-663-1 015-157-00-0	Acute Tox. 4; H302 Skin Corr. 1A; H314  Acute toxicity estimate  Acute oral toxicity: 1.900 mg/kg	>= 1 - < 3

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- If inhaled : If breathed in, move person into fresh air.  
In the case of inhalation of aerosol/mist consult a physician if necessary.
- In case of skin contact : Wash off immediately with soap and plenty of water.
- In case of eye contact : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.  
If eye irritation persists, consult a specialist.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.  
Do NOT induce vomiting.

#### 4.2 Most important symptoms and effects, both acute and delayed

- Risks : Causes skin irritation.  
Causes serious eye damage.

#### 4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

- Suitable extinguishing media : Water  
Carbon dioxide (CO<sub>2</sub>)  
Dry powder  
Sand
- Unsuitable extinguishing : High volume water jet

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### 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Oxides of phosphorus

### 5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.  
Avoid contact with skin, eyes and clothing.  
Avoid formation of aerosol.  
Do not breathe vapours or spray mist.  
For personal protection see section 8.  
For disposal considerations see section 13.

### 6.2 Environmental precautions

Environmental precautions : Do not flush into surface water.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

### 6.4 Reference to other sections

For personal protection see section 8., For disposal considerations see section 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Avoid formation of aerosol.

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Do not breathe vapours or spray mist.  
Avoid contact with skin and eyes.  
Wear personal protective equipment.  
Smoking, eating and drinking should be prohibited in the application area.  
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : No special precautions required.

Hygiene measures : Keep away from food, drink and animal feedingstuffs. Wash hands before eating, drinking, or smoking. Wash hands before breaks and at the end of workday.

### 7.2 Conditions for safe storage, including any incompatibilities

Further information on storage conditions : Keep container tightly closed and in a well-ventilated place.

Advice on common storage : Keep away from food, drink and animal feedingstuffs.

Recommended storage temperature : 5 - 35 °C

Further information on storage stability : Protect from frost, heat and sunlight.

### 7.3 Specific end use(s)

Specific use(s) : Not relevant

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

#### Personal protective equipment

Eye/face protection : Safety glasses with side-shields conforming to EN166

#### Hand protection

Material : Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374.

Break through time : > 480 min

Glove thickness : > 0,3 mm

Directive : Equipment should conform to EN 374

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Remarks	: The data about break through time/strength of material are standard values! The exact break through time/strength of material has to be obtained from the producer of the protective glove. As the product is a mixture of several substances, the durability of the glove materials cannot be calculated in advance and has to be tested before use.
Skin and body protection	: Long sleeved clothing
Respiratory protection	: Do not breathe vapours or spray mist. In the case of dust or aerosol formation use respirator with an approved filter. Equipment should conform to EN 14387
Filter type	: Combined particulates, inorganic and acidic gas/vapour, ammonia/amines and organic vapour type (ABEK-P)
Protective measures	: Handle in accordance with good industrial hygiene and safety practice. Wash contaminated clothing before re-use.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	: liquid
Colour	: light brown
Odour	: none
Melting point/range	: < 0 °C
Boiling point/boiling range	: > 100 °C
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: No data available
Flash point	: not determined

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Auto-ignition temperature	:	does not ignite
pH	:	2,90 (20 °C)
Solubility(ies) Water solubility	:	completely miscible
Partition coefficient: n- octanol/water	:	Not applicable
Density	:	1,55 g/cm <sup>3</sup> (20 °C)

### 9.2 Other information

Explosives	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Flammability (liquids)	:	Will not burn
Self-ignition	:	not auto-flammable

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions	:	No dangerous reaction known under conditions of normal use.
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### 10.4 Conditions to avoid

Conditions to avoid	:	Strong sunlight for prolonged periods. Do not allow evaporation to dryness.
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### 10.5 Incompatible materials

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Materials to avoid : Incompatible with strong bases and oxidizing agents.

### 10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

Based on available data, the classification criteria are not met.

#### Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

#### Components:

##### **Mono-potassium phosphite:**

Acute oral toxicity : Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : Assessment: The substance or mixture has no acute dermal toxicity

##### **Phosphonic acid, magnesium salt (2:1):**

Acute oral toxicity : Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : Assessment: The substance or mixture has no acute dermal toxicity

##### **phosphorous acid:**

Acute oral toxicity : LD50 (Rat): 1.900 mg/kg  
Assessment: Harmful if swallowed.

Acute inhalation toxicity : Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : Assessment: The substance or mixture has no acute dermal toxicity



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### **Skin corrosion/irritation**

Causes skin irritation.

#### **Components:**

##### **Mono-potassium phosphite:**

Assessment : No skin irritation

##### **Phosphonic acid, magnesium salt (2:1):**

Assessment : No skin irritation

##### **phosphorous acid:**

Assessment : Causes severe burns.

### **Serious eye damage/eye irritation**

Causes serious eye damage.

#### **Components:**

##### **Mono-potassium phosphite:**

Assessment : Irritating to eyes.

##### **Phosphonic acid, magnesium salt (2:1):**

Assessment : Risk of serious damage to eyes.

Result : Causes serious eye damage.

##### **phosphorous acid:**

Assessment : No eye irritation

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

Based on available data, the classification criteria are not met.

#### **Respiratory sensitisation**

Based on available data, the classification criteria are not met.

#### **Components:**

##### **Mono-potassium phosphite:**

Assessment : Does not cause skin sensitisation.

Assessment : Does not cause respiratory sensitisation.

##### **Phosphonic acid, magnesium salt (2:1):**

Assessment : Does not cause skin sensitisation.

Assessment : Does not cause respiratory sensitisation.

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### phosphorous acid:

Exposure routes                   : Dermal  
Assessment                        : Does not cause skin sensitisation.

Exposure routes                   : inhalation (dust/mist/fume)  
Assessment                        : Does not cause respiratory sensitisation.

### Germ cell mutagenicity

Based on available data, the classification criteria are not met.

#### Components:

##### **Mono-potassium phosphite:**

Germ cell mutagenicity- Assessment                   : Weight of evidence does not support classification as a germ cell mutagen.

##### **Phosphonic acid, magnesium salt (2:1):**

Germ cell mutagenicity- Assessment                   : Weight of evidence does not support classification as a germ cell mutagen.

### phosphorous acid:

Germ cell mutagenicity- Assessment                   : Weight of evidence does not support classification as a germ cell mutagen.

### Carcinogenicity

Based on available data, the classification criteria are not met.

#### Components:

##### **Mono-potassium phosphite:**

Carcinogenicity - Assessment                   : Not classifiable as a human carcinogen.

##### **Phosphonic acid, magnesium salt (2:1):**

Carcinogenicity - Assessment                   : Not classifiable as a human carcinogen.

### phosphorous acid:

Carcinogenicity - Assessment                   : Not classifiable as a human carcinogen.

### Reproductive toxicity

Based on available data, the classification criteria are not met.

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### Components:

#### **Mono-potassium phosphite:**

Reproductive toxicity - Assessment : No toxicity to reproduction

No effects on or via lactation

#### **Phosphonic acid, magnesium salt (2:1):**

Reproductive toxicity - Assessment : No toxicity to reproduction

No effects on or via lactation

#### **phosphorous acid:**

Reproductive toxicity - Assessment : No toxicity to reproduction

No effects on or via lactation

### **STOT - single exposure**

Based on available data, the classification criteria are not met.

### Components:

#### **Mono-potassium phosphite:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

#### **Phosphonic acid, magnesium salt (2:1):**

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

#### **phosphorous acid:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

### **STOT - repeated exposure**

Based on available data, the classification criteria are not met.

### Components:

#### **Mono-potassium phosphite:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

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### Phosphonic acid, magnesium salt (2:1):

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

### phosphorous acid:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

### Aspiration toxicity

Based on available data, the classification criteria are not met.

### Components:

#### Mono-potassium phosphite:

No aspiration toxicity classification

#### Phosphonic acid, magnesium salt (2:1):

No aspiration toxicity classification

#### phosphorous acid:

No aspiration toxicity classification

## 11.2 Information on other hazards

### Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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## SECTION 12: Ecological information

### 12.1 Toxicity

No data available

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

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### 12.5 Results of PBT and vPvB assessment

#### Product:

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

#### Components:

##### **Mono-potassium phosphite:**

Assessment : Substance is not persistent, bioaccumulative, and toxic (PBT). Substance is not very persistent and very bioaccumulative (vPvB).

### 12.6 Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 12.7 Other adverse effects

No data available

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Do not flush into surface water or sanitary sewer system. In accordance with local and national regulations.

Contaminated packaging : Empty remaining contents. Empty containers should be taken to an approved waste handling site for recycling or disposal. Empty containers retain residue and can be dangerous.

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## SECTION 14: Transport information

### 14.1 UN number or ID number

ADR : Not regulated as a dangerous good

RID : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

IATA\_P : Not regulated as a dangerous good

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### 14.2 UN proper shipping name

ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
IATA_P	:	Not regulated as a dangerous good

### 14.3 Transport hazard class(es)

ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
IATA_P	:	Not regulated as a dangerous good

### 14.4 Packing group

ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
IATA (Cargo)	:	Not regulated as a dangerous good
IATA_P (Passenger)	:	Not regulated as a dangerous good

### 14.5 Environmental hazards

Not regulated as a dangerous good

### 14.6 Special precautions for user

Not applicable

### 14.7 Maritime transport in bulk according to IMO instruments

Regulatory basis	:	IMSBC Code
Remarks	:	Product is not allowed to be transported in bulk.

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## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Not applicable
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollu-	:	Not applicable

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tants (recast)

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. Not applicable

### 15.2 Chemical safety assessment

Not relevant

## SECTION 16: Other information

### Full text of H-Statements

H302 : Harmful if swallowed.  
H314 : Causes severe skin burns and eye damage.  
H318 : Causes serious eye damage.  
H319 : Causes serious eye irritation.

### Full text of other abbreviations

Acute Tox. : Acute toxicity  
Eye Dam. : Serious eye damage  
Eye Irrit. : Eye irritation  
Skin Corr. : Skin corrosion

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of

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Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Classification of the mixture:

Skin Irrit. 2	H315
Eye Dam. 1	H318

#### Classification procedure:

Calculation method
Calculation method

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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