



# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:  
Regulation (EC) No. 1272/2008 and Regulation (EC) No. 1907/2006 as amended by  
Regulation (EU) No. 2020/878

Revision Date 03-Oct-2024

Version 2

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

**Product Code** 22071  
**Product Name** WATER PUMP & THERMOSTAT HOUSING RTV .5 OZ

### Other means of identification

**Unique Formula Identifier (UFI)** W4QH-D0A9-000C-WYV1

Mixture. Contains 2-BUTANONE OXIME

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

**Recommended Use** Sealant  
**Uses advised against** No information available

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

<b>Manufacturer</b> ITW Permatex, Inc. 6875 Parkland Blvd. Solon, Ohio 44139 USA Telephone: 1-87-Permatex (866) 732-9502	<b>Only Representative (OR)</b> ITW Permatex, Inc. Bay 150 Shannon Industrial Estate Co. Clare Ireland V14 DF82 353(61)771500 353(61)471285 customerservice.shannon@itwpp.com
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### For further information, please contact

**Contact Point** ITW Permatex, Inc.  
6875 Parkland Blvd.  
Solon, Ohio 44139 USA  
Telephone: 1-87-Permatex  
(866) 732-9502

**E-mail address:** mail@permatex.com

**Non-Emergency Telephone Number** 866-732-9502

### 1.4. Emergency telephone number

24-hour emergency phone number EU Member States information as follows:

<b>24-hour emergency phone number - §45 - (EC)1272/2008</b>	
<b>Europe</b>	112
<b>Austria</b>	01 406 43 43

Belgium	070 245 245
Bulgaria	+359 2 9154 233
Croatia	+3851 2348 342
Cyprus	1401
Czech Republic	+420 224 919 293/ +420 224 915 402
Denmark	+ 45 8212 1212
Estonia	16662/ (+372) 7943 794
Finland	0800 147 111/ 09 471 977
France	+33 (0)1 45 42 59 59
Germany	+49 228 192 40
Greece	(003) 2107793777
Hungary	+36 80 201 199
Iceland	543 2222
Ireland	01 809 2166
Italy	0382-24444
Latvia	+371 67042473
Liechtenstein	01 406 43 43
Lithuania	+370 (85) 2362052
Luxembourg	(+352) 8002 5500
Malta	112
Netherlands	+31 (0)88 755 8000
Norway	22 59 13 00
Poland	112
Portugal	+351 800 250 250
Romania	+40213183606
Slovakia	+421 2 5477 4166
Slovenia	112
Spain	+34 91 562 04 20
Sweden	112
Switzerland	145
United Kingdom	111

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

<b>Carcinogenicity</b>	Category 1B - (H350)
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### 2.2. Label elements

Contains 2-BUTANONE OXIME



**Signal word**  
Danger

#### Hazard statements

H350 - May cause cancer.

EUH208 Contains 2-BUTANONE OXIME May produce an allergic reaction.

**Precautionary Statements - EU (§28, 1272/2008)**

- P201 - Obtain special instructions before use.
- P202 - Do not handle until all safety precautions have been read and understood.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P308 + P313 - IF exposed or concerned: Get medical advice/attention.
- P405 - Store locked up.
- P501 - Dispose of contents/ container to an approved waste disposal plant.

- 55.5 % of the mixture consists of ingredient(s) of unknown acute toxicity.
- 28.5 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.
- 25 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.
- 55.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).
- 55.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).
- 33.06 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

**Unknown aquatic toxicity**

Contains 0 % of components with unknown hazards to the aquatic environment.

**2.3. Other hazards**

- Other hazards** No information available.
- PBT & vPvB** The components in this formulation do not meet the criteria for classification as PBT or vPvB.
- Endocrine Disruptor Information** This product does not contain any known or suspected endocrine disruptors.

**SECTION 3: Composition/information on ingredients**

**3.1. Substances**

Not applicable

**3.2. Mixtures**

Chemical name	Weight-%	REACH registration number	EC No (EU Index No)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)	Notes
CALCIUM CARBONATE 471-34-1	10-30%	No data available	207-439-9	No data available	-	-	-	-
STEARIC ACID 57-11-4	1-5%	No data available	200-313-4	No data available	-	-	-	-
ALUMINIUM POWDER 7429-90-5	0.1-1%	No data available	231-072-3 (013-002-00-1) (013-001-00-6)	Flam. Sol. 1 (H228) Water-react. 2 (H261)	-	-	-	T
2-BUTANONE OXIME 96-29-7	0.1-1%	No data available	202-496-6 (616-014-00-0)	Acute Tox. 3 (H301) Acute Tox. 4 (H312) Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Eye Dam. 1 (H318) STOT SE 3 (H336) STOT SE 1 (H370) Carc. 1B (H350) STOT RE 2 (H373)	-	-	-	-

MINERAL OIL 8042-47-5	0.1-1%	No data available	232-455-8	No data available	-	-	-	-
DIMETHYLBIS"(1-OXONEODECYL)OXY" STANNANE 68928-76-7	0.1-1%	No data available	273-028-6	No data available	-	-	-	-
NAPHTHA, SOLVENT 8052-41-3	<0.1%	No data available	232-489-3 (649-345-00-4)	Asp. Tox. 1 (H304) Muta. 1B (H340) Carc. 1B (H350) STOT RE 1 (H372)	-	-	-	P

Note P - The harmonized classification as a carcinogen or mutagen applies unless it can be shown that the substance contains less than 0.1 % w/w benzene (Einecs No 200-753-7), in which case a classification in accordance with Title II of this Regulation shall be performed also for those hazard classes. Where the substance is not classified as a carcinogen or mutagen, at least the precautionary statements (P102-)P260-P262-P301 + P310-P331 shall apply.

Note T - This substance may be marketed in a form which does not have the physical hazards as indicated by the classification in the entry in Part 3. If the results of the relevant method or methods in accordance with Part 2 of Annex I of this Regulation show that the specific form of substance marketed does not exhibit this physical property or these physical hazards, the substance shall be classified in accordance with the result or results of this test or these tests. Relevant information, including reference to the relevant test method(s) shall be included in the safety data sheet.

**Full text of H- and EUH-phrases: see section 16**

Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapor - mg/L	Inhalation LC50 - 4 hour - gas - ppm
CALCIUM CARBONATE 471-34-1	6450	2000	3	No data available	No data available
STEARIC ACID 57-11-4	4600	2000	No data available	No data available	No data available
ALUMINIUM POWDER 7429-90-5	No data available	No data available	0.888	No data available	No data available
2-BUTANONE OXIME 96-29-7	100+ 930	1100+ 1000	No data available	No data available	No data available
MINERAL OIL 8042-47-5	5000	No data available	No data available	No data available	No data available
NAPHTHA, SOLVENT 8052-41-3	No data available	3000	5.5	No data available	No data available

+ This value is the harmonized acute toxicity estimate (ATE) listed in CLP Annex VI, Part 3. This harmonized ATE value must be used when calculating the acute toxicity estimate (ATEmix) for classifying a mixture containing the listed substance

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59).

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**General advice** IF exposed or concerned: Get medical advice/attention.

**Inhalation** Remove to fresh air.

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<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
<b>Skin contact</b>	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.
<b>Ingestion</b>	Rinse mouth.

**4.2. Most important symptoms and effects, both acute and delayed**

<b>Symptoms</b>	No information available.
<b>Effects of Exposure</b>	May cause cancer.

**4.3. Indication of any immediate medical attention and special treatment needed**

<b>Note to physicians</b>	Treat symptomatically.
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**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

<b>Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Small Fire</b>	In case of fire, use water spray, foam, dry chemical, or CO2.
<b>Large Fire</b>	In case of fire, use water spray, foam, dry chemical, or CO2.
<b>Unsuitable extinguishing media</b>	Do not scatter spilled material with high pressure water streams.

**5.2. Special hazards arising from the substance or mixture**

<b>Specific hazards arising from the chemical</b>	No information available.
<b>Hazardous combustion products</b>	No information available

**5.3. Advice for firefighters**

<b>Special protective equipment and precautions for fire-fighters</b>	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.
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**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

<b>Personal precautions</b>	Ensure adequate ventilation.
<b>Other information</b>	Refer to protective measures listed in Sections 7 and 8.
<b>For emergency responders</b>	Use personal protection recommended in Section 8.

**6.2. Environmental precautions**

<b>Environmental precautions</b>	See Section 12 for additional Ecological Information.
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**6.3. Methods and material for containment and cleaning up**

- Methods for containment** Prevent further leakage or spillage if safe to do so.
- Methods for cleaning up** Take up mechanically, placing in appropriate containers for disposal.
- Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

**6.4. Reference to other sections**

- Reference to other sections** See section 8 for more information. See section 13 for more information.

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

- Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing.
- General hygiene considerations** Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

**7.2. Conditions for safe storage, including any incompatibilities**

- Storage Conditions** Keep container tightly closed in a dry and well-ventilated place.
- Storage class (TRGS 510)** Storage class 6.1C.

**7.3. Specific end use(s)**

**Specific use(s)**  
Automotive Sealant.

**Risk Management Methods (RMM)** The information required is contained in this Safety Data Sheet.

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Exposure Limits**

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
CALCIUM CARBONATE 471-34-1	-	-	-	-	TWA: 10 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup>
ALUMINIUM POWDER 7429-90-5	-	TWA: 10 mg/m <sup>3</sup> STEL 20 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>	TWA: 10.0 mg/m <sup>3</sup> TWA: 1.5 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup>
2-BUTANONE OXIME 96-29-7	-	Sh+	-	-	-
DIMETHYLBIS"(1-OXONE ODECYL)OXY"STANNAN E 68928-76-7	-	TWA: 0.1 mg/m <sup>3</sup> STEL 0.2 mg/m <sup>3</sup> Sk*	TWA: 0.1 mg/m <sup>3</sup> STEL: 0.2 mg/m <sup>3</sup> Sk*	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup> STEL: 0.2 mg/m <sup>3</sup>
NAPHTHA, SOLVENT	-	-	TWA: 100 ppm	-	-

8052-41-3			TWA: 533 mg/m <sup>3</sup>		
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
ALUMINIUM POWDER 7429-90-5	-	TWA: 10.0 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> TWA: 2 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup> STEL: 4 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup>	TWA: 1.5 mg/m <sup>3</sup>
DIMETHYLBIS"(1-OXONE ODECYL)OXY"STANNAN E 68928-76-7	-	TWA: 0.1 mg/m <sup>3</sup> Sk* Ceiling: 0.2 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup> STEL: 0.2 mg/m <sup>3</sup> except Tri-n-butyltin compounds Sk*	TWA: 0.1 mg/m <sup>3</sup> STEL: 0.2 mg/m <sup>3</sup> Sk*	TWA: 0.1 mg/m <sup>3</sup> STEL: 0.3 mg/m <sup>3</sup> Sk*
NAPHTHA, SOLVENT 8052-41-3	-	TWA: 200 mg/m <sup>3</sup> Ceiling: 1000 mg/m <sup>3</sup>	TWA: 25 ppm TWA: 145 mg/m <sup>3</sup> STEL: 50 ppm =<20% Aromatic compounds STEL: 290 mg/m <sup>3</sup> =<20% Aromatic compounds	TWA: 50 ppm TWA: 300 mg/m <sup>3</sup> STEL: 100 ppm STEL: 600 mg/m <sup>3</sup>	-
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
CALCIUM CARBONATE 471-34-1	TWA: 10 mg/m <sup>3</sup>	-	-	-	-
ALUMINIUM POWDER 7429-90-5	TWA: 10 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>	TWA: 1.25 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup>	TWA: 4 mg/m <sup>3</sup> TWA: 1.5 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>
2-BUTANONE OXIME 96-29-7	-	TWA: 0.3 ppm TWA: 1 mg/m <sup>3</sup> Sk* Sh+	Sk* skin sensitizer	-	-
MINERAL OIL 8042-47-5	-	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> Peak: 20 mg/m <sup>3</sup>	-	TWA: 5 mg/m <sup>3</sup>
DIMETHYLBIS"(1-OXONE ODECYL)OXY"STANNAN E 68928-76-7	TWA: 0.1 mg/m <sup>3</sup> STEL: 0.2 mg/m <sup>3</sup>	TWA: 0.0018 ppm TWA: 0.009 mg/m <sup>3</sup>	TWA: 0.004 ppm TWA: 0.02 mg/m <sup>3</sup> Peak: 0.004 ppm Peak: 0.02 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup> STEL: 0.2 mg/m <sup>3</sup> Sk*	TWA: 0.02 mg/m <sup>3</sup> Sk*
NAPHTHA, SOLVENT 8052-41-3	-	-	-	TWA: 100 ppm TWA: 575 mg/m <sup>3</sup> STEL: 125 ppm STEL: 720 mg/m <sup>3</sup>	-
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
CALCIUM CARBONATE 471-34-1	-	-	-	TWA: 6 mg/m <sup>3</sup>	-
STEARIC ACID 57-11-4	-	-	TWA: 10 mg/m <sup>3</sup> TWA: 3 mg/m <sup>3</sup>	-	-
ALUMINIUM POWDER 7429-90-5	TWA: 1 mg/m <sup>3</sup> STEL: 3 mg/m <sup>3</sup>	-	TWA: 1 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> TWA: 2 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup>
2-BUTANONE OXIME 96-29-7	TWA: 3 ppm TWA: 10 mg/m <sup>3</sup> STEL: 10 ppm STEL: 33 mg/m <sup>3</sup> Sens+	-	-	-	-
MINERAL OIL 8042-47-5	-	-	-	TWA: 5 mg/m <sup>3</sup>	-
DIMETHYLBIS"(1-OXONE ODECYL)OXY"STANNAN E 68928-76-7	TWA: 0.1 mg/m <sup>3</sup> STEL: 0.2 mg/m <sup>3</sup>	-	TWA: 0.1 mg/m <sup>3</sup> STEL: 0.2 mg/m <sup>3</sup> Sk*	-	TWA: 0.1 mg/m <sup>3</sup> STEL: 0.2 mg/m <sup>3</sup> Sk*
NAPHTHA, SOLVENT	TWA: 100 ppm	-	TWA: 100 ppm	-	TWA: 50 ppm

8052-41-3	TWA: 573 mg/m <sup>3</sup>		TWA: 573 mg/m <sup>3</sup>		TWA: 300 mg/m <sup>3</sup> STEL: 600 mg/m <sup>3</sup> STEL: 100 ppm
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
CALCIUM CARBONATE 471-34-1	-	-	-	-	TWA: 10 mg/m <sup>3</sup>
ALUMINIUM POWDER 7429-90-5	-	-	-	TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>	TWA: 2.5 mg/m <sup>3</sup> TWA: 1.2 mg/m <sup>3</sup>
DIMETHYLBIS"(1-OXONE ODECYL)OXY"STANNAN E 68928-76-7	-	-	-	TWA: 0.1 mg/m <sup>3</sup> STEL: 0.3 mg/m <sup>3</sup> Sk*	-
NAPHTHA, SOLVENT 8052-41-3	-	-	-	-	TWA: 300 mg/m <sup>3</sup> STEL: 900 mg/m <sup>3</sup>
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
ALUMINIUM POWDER 7429-90-5	TWA: 1 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup> STEL: 3 mg/m <sup>3</sup>	TWA: 4 mg/m <sup>3</sup> TWA: 1.5 mg/m <sup>3</sup>	-	TWA: 1 mg/m <sup>3</sup>
2-BUTANONE OXIME 96-29-7	-	-	-	TWA: 1 mg/m <sup>3</sup> TWA: 0.3 ppm STEL: 2.4 ppm STEL: 8 mg/m <sup>3</sup> Sk*	-
MINERAL OIL 8042-47-5	-	-	-	TWA: 5 mg/m <sup>3</sup> STEL: 20 mg/m <sup>3</sup>	-
DIMETHYLBIS"(1-OXONE ODECYL)OXY"STANNAN E 68928-76-7	TWA: 0.1 mg/m <sup>3</sup> STEL: 0.2 mg/m <sup>3</sup>	TWA: 0.05 mg/m <sup>3</sup> STEL: 0.15 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup> Sk* Ceiling: 0.2 mg/m <sup>3</sup>	TWA: 0.009 mg/m <sup>3</sup> TWA: 0.0018 ppm STEL: 0.0018 ppm STEL: 0.009 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup> STEL: 0.2 mg/m <sup>3</sup> Sk*
NAPHTHA, SOLVENT 8052-41-3	TWA: 100 ppm	-	-	-	-
Chemical name		Sweden	Switzerland		United Kingdom
CALCIUM CARBONATE 471-34-1		-	TWA: 3 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup>		-
ALUMINIUM POWDER 7429-90-5		NGV: 5 mg/m <sup>3</sup> NGV: 2 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup>		TWA: 10 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup> STEL: 30 mg/m <sup>3</sup> STEL: 12 mg/m <sup>3</sup>
MINERAL OIL 8042-47-5		-	TWA: 5 mg/m <sup>3</sup>		-
DIMETHYLBIS"(1-OXONE ODECYL)OXY"STANNANE E 68928-76-7		NGV: 0.1 mg/m <sup>3</sup> Sk*	TWA: 0.1 mg/m <sup>3</sup> STEL: 0.2 mg/m <sup>3</sup> Sk*		TWA: 0.1 mg/m <sup>3</sup> STEL: 0.2 mg/m <sup>3</sup> Sk*
NAPHTHA, SOLVENT 8052-41-3		NGV: 300 mg/m <sup>3</sup> NGV: 50 ppm NGV: 175 mg/m <sup>3</sup> NGV: 30 ppm Vägledande KGV: 100 ppm Vägledande KGV: 600 mg/m <sup>3</sup> Vägledande KGV: 60 ppm Vägledande KGV: 350 mg/m <sup>3</sup> Sk*	-		-

**Biological occupational exposure limits**

Chemical name	European Union	Austria	Bulgaria	Croatia	Czech Republic
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ALUMINIUM POWDER 7429-90-5	-	60 µg/g Creatinine - urine (Aluminum) - after end of work day, at the end of a work week/end of the shift  (Note 1)	-	200 µg/L - urine (Aluminum) - at the end of the work shift	-
Chemical name	Denmark	Finland	France	Germany DFG	Germany TRGS
ALUMINIUM POWDER 7429-90-5	-	-	-	50 µg/g Creatinine (urine - Aluminum for long-term exposures: at the end of the shift after several shifts) 50 µg/g Creatinine - BAT (for long-term exposures: at the end of the shift after several shifts) urine 15 µg/g Creatinine - BAR (for long-term exposures: at the end of the shift after several shifts) urine	50 µg/g Creatinine (urine - Aluminum for long-term exposures: at the end of the shift after several shifts)
Chemical name	Latvia	Luxembourg	Romania	Slovakia	
ALUMINIUM POWDER 7429-90-5	-	-	200 µg/L - urine (Aluminum) - end of shift	60 µg/g creatinine (urine - Aluminum not critical)	
Chemical name	Slovenia	Spain	Switzerland	United Kingdom	
ALUMINIUM POWDER 7429-90-5	50 µg/L - urine (Aluminum) - for long-term exposure: at the end of the work shift after several consecutive workdays	-	50 µg/g creatinine (urine - Aluminum after several shifts (for long-term exposures)) 0.21 µmol/mmol creatinine (urine - Aluminum after several shifts (for long-term exposures))	-	

**Note 1:** Details about BEL values can be found in Annex 2 of the Austrian Ordinance on Health Monitoring in the Workplace.

**Derived No Effect Level (DNEL) - Workers**

Chemical name	Oral	Dermal	Inhalation
CALCIUM CARBONATE 471-34-1	-	-	6.36 mg/m <sup>3</sup> [5] [6]
VINYL OXIMINOSILANE 2224-33-1	-	0.15 mg/kg bw/day [4] [6]	1.06 mg/m <sup>3</sup> [4] [6]
STEARIC ACID 57-11-4	-	10 mg/kg bw/day [4] [6]	17.632 mg/m <sup>3</sup> [4] [6]
OXIMINOSILANE 34206-40-1	-	0.134 mg/kg bw/day [4] [6]	0.942 mg/m <sup>3</sup> [4] [6]
2-BUTANONE OXIME 96-29-7	-	1.3 mg/kg bw/day [4] [6] 2.5 mg/kg bw/day [4] [7]	9 mg/m <sup>3</sup> [4] [6] 3.33 mg/m <sup>3</sup> [5] [6]
MINERAL OIL 8042-47-5	-	217.05 mg/kg bw/day [4] [6]	164.56 mg/m <sup>3</sup> [4] [6]
NAPHTHA, SOLVENT 8052-41-3	-	80 mg/kg bw/day [4] [6] 30 mg/kg bw/day [4] [7]	44 mg/m <sup>3</sup> [4] [6] 55 mg/m <sup>3</sup> [4] [7]

Chemical name	Oral	Dermal	Inhalation
		7.56 mg/cm <sup>2</sup> [5] [6]	44 mg/m <sup>3</sup> [5] [6] 55 mg/m <sup>3</sup> [5] [7]

**Notes**

- [4] Systemic health effects.
- [5] Local health effects.
- [6] Long term.
- [7] Short term.

**Derived No Effect Level (DNEL) - General Public**

Chemical name	Oral	Dermal	Inhalation
CALCIUM CARBONATE 471-34-1	6.1 mg/kg bw/day [4] [6] 6.1 mg/kg bw/day [4] [7]	-	1.06 mg/m <sup>3</sup> [5] [6]
VINYL OXIMINOSILANE 2224-33-1	0.075 mg/kg bw/day [4] [6]	-	0.26 mg/m <sup>3</sup> [4] [6]
STEARIC ACID 57-11-4	2.5 mg/kg bw/day [4] [6]	-	4.348 mg/m <sup>3</sup> [4] [6]
OXIMINOSILANE 34206-40-1	0.067 mg/kg bw/day [4] [6]	-	0.232 mg/m <sup>3</sup> [4] [6]
2-BUTANONE OXIME 96-29-7	-	1.5 mg/kg bw/day [4] [6] 1.5 mg/kg bw/day [4] [7]	2.7 mg/m <sup>3</sup> [4] [6] 2 mg/m <sup>3</sup> [5] [6]
MINERAL OIL 8042-47-5	25 mg/kg bw/day [4] [6]	-	34.78 mg/m <sup>3</sup> [4] [6]
NAPHTHA, SOLVENT 8052-41-3	10.56 mg/kg bw/day [4] [6] 50 mg/kg bw/day [4] [7]	60 mg/kg bw/day [4] [6] 60 mg/kg bw/day [4] [7] 3.78 mg/cm <sup>2</sup> [5] [6]	22 mg/m <sup>3</sup> [4] [6] 55 mg/m <sup>3</sup> [4] [7] 22 mg/m <sup>3</sup> [5] [6] 55 mg/m <sup>3</sup> [5] [7]

**Notes**

- [4] Systemic health effects.
- [5] Local health effects.
- [6] Long term.
- [7] Short term.

**Predicted No Effect Concentration (PNEC)**

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
VINYL OXIMINOSILANE 2224-33-1	0.01919 mg/L	-	0.001919 mg/L	-	-
SUBSTITUTED UREA 23843-64-3	0.1 mg/L	1 mg/L	0.01 mg/L	0.1 mg/L	-
OXIMINOSILANE 34206-40-1	0.0171 mg/L	-	0.00171 mg/L	-	-
2-BUTANONE OXIME 96-29-7	0.256 mg/L	0.118 mg/L	-	-	-
NAPHTHA, SOLVENT 8052-41-3	0.14 mg/L	0.014 mg/L	0.35 mg/L	-	10 mg/m <sup>3</sup>

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
CALCIUM CARBONATE 471-34-1	-	-	100 mg/L	-	-
VINYL OXIMINOSILANE 2224-33-1	1136.562 mg/kg sediment dw	113.656 mg/kg sediment dw	4.06 mg/L	133.8 mg/kg soil dw	3.333 mg/kg food
SUBSTITUTED UREA 23843-64-3	0.39 mg/kg sediment dw	0.039 mg/kg sediment dw	28.4 mg/L	0.0194 mg/kg soil dw	-
ALUMINIUM POWDER 7429-90-5	-	-	20 mg/L	-	-
OXIMINOSILANE 34206-40-1	9835.346 mg/kg sediment dw	983.535 mg/kg sediment dw	4.825 mg/L	1157.93 mg/kg soil dw	2.97 mg/kg food
2-BUTANONE OXIME 96-29-7	-	-	177 mg/L	-	-
NAPHTHA, SOLVENT 8052-41-3	1.14 mg/kg sediment dw	0.14 mg/kg sediment dw	-	-	-

## 8.2. Exposure controls

**Engineering controls** No information available.

**Personal protective equipment**

**Eye/face protection** Appropriate eye/face protection should be selected and used according to the chemical nature, hazards and use of this product and safety requirements of the local jurisdiction.

**Hand protection** Wear suitable gloves.

**Skin and body protection** Wear suitable protective clothing.

**Respiratory protection** Appropriate respiratory protection should be selected and used according to the chemical nature, hazards and use of this product and safety requirements of the local jurisdiction. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**Thermal hazards** No information available.

**Environmental exposure controls** No information available.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**Physical state** Paste / Gel Liquid  
**Appearance** Gray  
**Color** Gray  
**Odor** Mild.  
**Odor threshold** No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>Melting point / freezing point</b>	No data available	Estimated
<b>Boiling point / boiling range</b>	No data available	Polymerization
<b>Flammability (solid, gas)</b>	No data available	Flammable in the presence of the following materials or conditions: open flames, sparks and static discharge.

<b>Flammability Limit in Air</b>		None known
<b>Upper flammability limit:</b>	No data available	
<b>Lower flammability limit:</b>	No data available	
<b>Flash point</b>	> 93 °C	Tag Closed Cup
<b>Autoignition temperature</b>	No data available	Estimated
<b>Decomposition temperature</b>		Remarks: Self-Accelerating decomposition temperature (SADT): 50 °C SADT-Self Accelerating Decomposition Temperature. Lowest temperature at which the tested package size will undergo a self-accelerating decomposition reaction.
<b>pH</b>	No data available	
<b>pH (as aqueous solution)</b>	No data available	None known
<b>Kinematic viscosity</b>	No Data Available	Kinematic viscosity at 100 degrees C
<b>Dynamic viscosity</b>	No data available	Remarks: Self-Accelerating decomposition temperature (SADT): 50 °C SADT-Self Accelerating Decomposition Temperature. Lowest temperature at which the tested package size will undergo a self-accelerating decomposition reaction.
<b>Water solubility</b>	No data available	None known
<b>Solubility(ies)</b>	No Data Available	
<b>Partition coefficient</b>	No Data Available	None known
<b>Vapor pressure</b>	<5 mm Hg @ 70°F	None known
<b>Relative density</b>	1.47	
<b>Bulk density</b>	자료 없음	
<b>Density</b>	No data available	
<b>Vapor density</b>	>1	Air = 1
<b>Particle characteristics</b>		
<b>Particle Size</b>	No information available	
<b>Particle Size Distribution</b>	No information available	

**9.2. Other information**

**VOC content** <2%

9.2.1. Information with regard to physical hazard classes  
 Not applicable

9.2.2. Other safety characteristics  
 No information available < 1 Butyl acetate = 1

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

**Reactivity** No information available.

**10.2. Chemical stability**

**Stability** Stable under normal conditions.

**Explosion data**

**Sensitivity to mechanical impact** None.  
   **Sensitivity to static discharge** None.

**10.3. Possibility of hazardous reactions**

**Possibility of hazardous reactions** None under normal processing.

**Hazardous polymerization** No information available.

**10.4. Conditions to avoid**

**Conditions to avoid** None known based on information supplied.

**10.5. Incompatible materials**

**Incompatible materials** None known based on information supplied.

**10.6. Hazardous decomposition products**

**Hazardous Decomposition Products** None known based on information supplied.

**SECTION 11: Toxicological information**

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

**Information on likely routes of exposure**

**Inhalation** Specific test data for the substance or mixture is not available.

**Eye contact** Specific test data for the substance or mixture is not available.

**Skin contact** Specific test data for the substance or mixture is not available.

**Ingestion** Specific test data for the substance or mixture is not available.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

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

**Numerical measures of toxicity**

The following values are calculated based on chapter 3.1 of the GHS document:

- ATEmix (oral) 11,970.10 mg/kg
- ATEmix (dermal) 4,922.70 mg/kg
- ATEmix (inhalation-gas) 99,999.00 ppm
- ATEmix (inhalation-vapor) 99,999.00 mg/l
- ATEmix (inhalation-dust/mist) 8.95 mg/l

- 28.5 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.
- 25 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.
- 55.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).
- 55.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).
- 33.06 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
CALCIUM CARBONATE	= 6450 mg/kg ( Rat )	> 2000 mg/kg ( Rat )	> 3 mg/L ( Rat ) 4 h
STEARIC ACID	= 4600 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	-
ALUMINIUM POWDER	-	-	> 0.888 mg/L ( Rat ) 4 h
2-BUTANONE OXIME	= 930 mg/kg ( Rat )	1000 - 1800 mg/kg ( Rabbit )	> 4.83 mg/L ( Rat ) 4 h
MINERAL OIL	> 5000 mg/kg ( Rat )	-	-

NAPHTHA, SOLVENT	-	> 3000 mg/kg ( Rabbit )	> 5.5 mg/L ( Rat ) 4 h
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**Skin corrosion/irritation** Based on available data, the classification criteria are not met.

**Serious eye damage/eye irritation** Based on available data, the classification criteria are not met.

**Respiratory or skin sensitization** Based on available data, the classification criteria are not met.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as mutagenic.

Chemical name	European Union
NAPHTHA, SOLVENT	Muta. 1B

**Carcinogenicity** Contains a known or suspected carcinogen. Classification based on data available for ingredients. May cause cancer.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	European Union
2-BUTANONE OXIME	Carc. 1B
NAPHTHA, SOLVENT	Carc. 1B

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

**STOT - single exposure** Based on available data, the classification criteria are not met.

**STOT - repeated exposure** Based on available data, the classification criteria are not met.

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

**11.2. Information on other hazards**

**11.2.1. Endocrine disrupting properties**

**Endocrine disrupting properties** Based on available data, the classification criteria are not met.

**11.2.2. Other information**

**Other adverse effects** No information available.

**SECTION 12: Ecological information**

**12.1. Toxicity**

**Ecotoxicity**

**Unknown aquatic toxicity** Contains 0 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
2-BUTANONE OXIME	EC50: =83mg/L (72h, <i>Desmodesmus subspicatus</i> )	LC50: 777 - 914mg/L (96h, <i>Pimephales promelas</i> ) LC50: =760mg/L (96h, <i>Poecilia reticulata</i> )	-	EC50: =750mg/L (48h, <i>Daphnia magna</i> )
MINERAL OIL	-	LC50: >10000mg/L (96h, <i>Lepomis macrochirus</i> )	-	-

**12.2. Persistence and degradability**

**Persistence and degradability** No information available.

**12.3. Bioaccumulative potential**

**Bioaccumulation**

Chemical name	Partition coefficient
2-BUTANONE OXIME	0.65
MINERAL OIL	6
NAPHTHA, SOLVENT	6.4

**12.4. Mobility in soil**

**Mobility in soil** No information available.

**12.5. Results of PBT and vPvB assessment**

**PBT and vPvB assessment** Based on available data, the classification criteria are not met.

Chemical name	PBT and vPvB assessment
CALCIUM CARBONATE	The substance is not PBT / vPvB
STEARIC ACID	The substance is not PBT / vPvB
ALUMINIUM POWDER	The substance is not PBT / vPvB
2-BUTANONE OXIME	The substance is not PBT / vPvB
MINERAL OIL	The substance is not PBT / vPvB
NAPHTHA, SOLVENT	The substance is not PBT / vPvB

**12.6. Endocrine disrupting properties**

**Endocrine disrupting properties** Based on available data, the classification criteria are not met.

**12.7. Other adverse effects**

**Other adverse effects** No information available.

**PMT or vPvM properties** Based on available data, the classification criteria are not met.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

<b>Waste from residues/unused products</b>	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
<b>Contaminated packaging</b>	Do not reuse empty containers.

**SECTION 14: Transport information**

**IATA**

<b>14.1 UN number or ID number</b>	Not regulated
<b>14.2 UN proper shipping name</b>	Not regulated
<b>14.3 Transport hazard class(es)</b>	Not regulated
<b>14.4 Packing group</b>	Not regulated
<b>14.5 Environmental hazards</b>	Not applicable
<b>14.6 Special precautions for user</b>	
<b>Special Provisions</b>	None

**IMDG**

<b>14.1 UN number or ID number</b>	Not regulated
<b>14.2 UN proper shipping name</b>	Not regulated
<b>14.3 Transport hazard class(es)</b>	Not regulated
<b>14.4 Packing group</b>	Not regulated
<b>14.5 Environmental hazards</b>	Not applicable
<b>14.6 Special precautions for user</b>	
<b>Special Provisions</b>	None
<b>14.7 Maritime transport in bulk according to IMO instruments</b>	No information available

**RID**

<b>14.1 UN number or ID number</b>	Not regulated
<b>14.2 UN proper shipping name</b>	Not regulated
<b>14.3 Transport hazard class(es)</b>	Not regulated
<b>14.4 Packing group</b>	Not regulated
<b>14.5 Environmental hazards</b>	Not applicable
<b>14.6 Special precautions for user</b>	
<b>Special Provisions</b>	None

**ADR**

<b>14.1 UN number or ID number</b>	Not regulated
<b>14.2 UN proper shipping name</b>	Not regulated
<b>14.3 Transport hazard class(es)</b>	Not regulated
<b>14.4 Packing group</b>	Not regulated
<b>14.5 Environmental hazards</b>	Not applicable
<b>14.6 Special precautions for user</b>	
<b>Special Provisions</b>	None

**ADN**

<b>14.1 UN number or ID number</b>	Not regulated
<b>14.2 UN proper shipping name</b>	Not regulated
<b>14.3 Transport hazard class(es)</b>	Not regulated
<b>14.4 Packing group</b>	Not regulated
<b>14.5 Environmental hazard</b>	Not applicable
<b>14.6 Special precautions for user</b>	



Special Provisions None

**SECTION 15: Regulatory information**

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

**National regulations**

**France**

**Occupational Illnesses (R-463-3, France)**

Chemical name	French RG number
ALUMINIUM POWDER - 7429-90-5	RG 32 RG 16, RG 16bis
MINERAL OIL - 8042-47-5	RG 36bis
NAPHTHA, SOLVENT - 8052-41-3	RG 84

**Germany**

**Water hazard class (WGK)** strongly hazardous to water (WGK 3)

**Netherlands**

**Carcinogenic, mutagenic and reproductive toxic effects**

Chemical name	Netherlands - List of Carcinogens	Netherlands - List of Mutagens	Netherlands - List of Reproductive Toxins
2-BUTANONE OXIME	Present	-	-

**Ordinance on the Incentive Tax on Volatile Organic Compounds (OVOC) SR 814.018** Not applicable  
**WPO (GSchV) SR 814.201; WPA (GSchG) SR 814.20** Class A

**European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

**Authorizations and/or restrictions on use:**

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorization per REACH Annex XIV
CALCIUM CARBONATE - 471-34-1	75	-
ALUMINIUM POWDER - 7429-90-5	75	-
2-BUTANONE OXIME - 96-29-7	75 28	-
NAPHTHA, SOLVENT - 8052-41-3	28 29 75	-

**Persistent Organic Pollutants**

Not applicable

**Named dangerous substances per Seveso Directive (2012/18/EU)**

Chemical name	Lower-tier requirements (tons)	Upper-tier requirements (tons)
NAPHTHA, SOLVENT - 8052-41-3	-	25000

**Ozone-depleting substances (ODS) regulation (EC) 1005/2009**

Not applicable

**EU - Plant Protection Products (1107/2009/EC)**

Chemical name	EU - Plant Protection Products (1107/2009/EC)
CALCIUM CARBONATE - 471-34-1	Plant protection agent
MINERAL OIL - 8042-47-5	Plant protection agent

**International Inventories**

<b>TSCA</b>	Complies
<b>DSL/NDSL</b>	Complies
<b>EINECS/ELINCS</b>	Does not comply
<b>ENCS</b>	Does not comply
<b>IECSC</b>	Complies
<b>KECI</b>	Complies
<b>PICCS</b>	Complies
<b>AICS</b>	Complies
<b>NZIoC</b>	Complies
<b>TCSI</b>	Contact supplier for inventory compliance status

**Legend:**

- TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List
- EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- ENCS** - Japan Existing and New Chemical Substances
- IECSC** - China Inventory of Existing Chemical Substances
- KECL** - Korean Existing Chemicals Inventory
- PICCS** - Philippines Inventory of Chemicals and Chemical Substances
- AICS** - Australian Inventory of Chemical Substances
- NZIoC** - New Zealand Inventory of Chemicals
- TCSI** - Taiwan Chemical Substance Inventory

**15.2. Chemical safety assessment**

**Chemical Safety Report** No information available

**SECTION 16: Other information**

**Key or legend to abbreviations and acronyms used in the safety data sheet**

**Full text of H-Statements referred to under section 3**

- H228 - Flammable solid
- H261 - In contact with water releases flammable gas
- H301 - Toxic if swallowed
- H304 - May be fatal if swallowed and enters airways
- H312 - Harmful in contact with skin
- H315 - Causes skin irritation
- H317 - May cause an allergic skin reaction
- H318 - Causes serious eye damage
- H336 - May cause drowsiness or dizziness
- H340 - May cause genetic defects
- H350 - May cause cancer
- H370 - Causes damage to organs

H372 - Causes damage to organs through prolonged or repeated exposure  
 H373 - May cause damage to organs through prolonged or repeated exposure

**Legend**

SVHC: Substances of Very High Concern for Authorization:  
 PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances  
 vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances  
 STOT: Specific Target Organ Toxicity  
 ATE: Acute Toxicity Estimate  
 LC50: 50% Lethal Concentration  
 LD50: 50% Lethal Dose

**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
+	Sensitizers		

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapor	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitization	Calculation method
Skin sensitization	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

**Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)  
 U.S. Environmental Protection Agency ChemView Database  
 European Food Safety Authority (EFSA)  
 European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA\_RAC)  
 European Chemicals Agency (ECHA) (ECHA\_API)  
 Environmental Protection Agency  
 Acute Exposure Guideline Level(s) (AEGl(s))  
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
 U.S. Environmental Protection Agency High Production Volume Chemicals  
 Food Research Journal  
 Hazardous Substance Database  
 International Uniform Chemical Information Database (IUCLID)  
 National Institute of Technology and Evaluation (NITE)  
 Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
 NIOSH (National Institute for Occupational Safety and Health)  
 National Library of Medicine's ChemID Plus (NLM CIP)  
 National Library of Medicine's PubMed database (NLM PUBMED)  
 U.S. National Toxicology Program (NTP)  
 New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
Organization for Economic Co-operation and Development Screening Information Data Set  
World Health Organization

**Revision Date** 03-Oct-2024

**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

**Disclaimer**

**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.**

**End of Safety Data Sheet**