

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Version: 1.2

Product number: 697333

Revision Date: 20.09.2017

Print Date: 05.02.2018

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

### 1.1 Product identifier

Product number	697333
Product name	AZ 726 MIF Developer

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

Identified uses	Materials for use in technical applications
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### 1.3 Details of the supplier of the safety data sheet

Company	Merck KGaA * 64271 Darmstadt * Germany * Phone:+49 6151 72-0
Responsible Department	PM-OQR * e-mail: PM_SDS_Supply@merckgroup.com

### 1.4 Emergency telephone number

Please contact the regional company representation in your country.

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## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

Corrosive to metals, Category 1	H290: May be corrosive to metals. On basis of test data.
Acute toxicity, Category 4	H302: Harmful if swallowed. Calculation method
Acute toxicity, Category 4	H312: Harmful in contact with skin. Calculation method
Skin corrosion, Category 1C	H314: Causes severe skin burns and eye damage. On basis of test data.
Serious eye damage, Category 1	H318: Causes serious eye damage. On basis of test data.
Specific target organ toxicity - single exposure, Category 2, Nervous system	H371: May cause damage to organs. Calculation method
Specific target organ toxicity - repeated exposure, Category 2, Eyes, Skin, Respiratory system, Heart, Liver, Nervous system	H373: May cause damage to organs through prolonged or repeated exposure. Calculation method

### 2.2 Label elements

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

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The Safety Data Sheets for catalogue items are available at [www.merck-performance-materials.com](http://www.merck-performance-materials.com)

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Hazard pictograms

:



Signal word

: Danger

Hazard statements

: H290 May be corrosive to metals.  
H302 + H312 Harmful if swallowed or in contact with skin  
H314 Causes severe skin burns and eye damage.  
H371 May cause damage to organs (Nervous system).  
H373 May cause damage to organs (Eyes, Skin, Respiratory system, Heart, Liver, Nervous system) through prolonged or repeated exposure.

Precautionary statements

: **Prevention:**

P280 Wear eye protection/ face protection.

**Response:**

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P302 + P352 IF ON SKIN: Wash with plenty of water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P310 IF exposed or concerned: immediately call a POISON CENTER or doctor/ physician.

P313 Get medical advice/ attention.

Hazardous components which must be listed on the label:

Tetramethylammonium hydroxyde

**Reduced Labelling (<= 125 ml)**

*Hazard pictograms*



*Signal word*

Danger

*Hazard statements*

H314 Causes severe skin burns and eye damage.

H371 May cause damage to organs (Nervous system).

H373 May cause damage to organs (Eyes, Skin, Respiratory system, Heart, Liver, Nervous system) through prolonged or repeated exposure.

*Precautionary statements*

P280 Wear eye protection/ face protection.

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P310 IF exposed or concerned: immediately call a POISON CENTER or doctor/ physician.

P313 Get medical advice/ attention.

## 2.3 Other hazards

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None known.

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## SECTION 3: Composition/information on ingredients

Chemical nature : Aqueous solution

### 3.1 Substance

Not applicable

### 3.2 Mixtures

#### Hazardous components

Chemical name	CAS-No. Registration number	Classification	Concentration (% w/w)
Tetramethylammonium hydroxyde	75-59-2 01-2119970562-34- xxxx	Met. Corr. 1; H290 Acute Tox. 2; H300 Acute Tox. 1; H310 Skin Corr. 1B; H314 Eye Dam. 1; H318 STOT SE 1; H370 1; H372 Aquatic Chronic 2; H411	$\geq 1 - < 2,5$

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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- General advice : First aider needs to protect himself.
- If inhaled : fresh air. Call in physician.
- In case of skin contact : Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
Call a physician immediately.
- In case of eye contact : rinse out with plenty of water.  
Immediately call in ophthalmologist.  
Remove contact lenses.
- If swallowed : make victim drink water (two glasses at most), avoid vomiting (risk of perforation).  
Call a physician immediately.  
Do not attempt to neutralise.

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

- Symptoms : Irritation and corrosion  
Cough  
Shortness of breath  
  
Risk of blindness!

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

Treatment : No information available.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : For this substance/mixture no limitations of extinguishing agents are given.

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

Specific hazards during firefighting : Not combustible.

Ambient fire may liberate hazardous vapours.

### 5.3 Advice for firefighters

Special protective equipment for firefighters : Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

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

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## SECTION 6: Accidental release measures

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

Personal precautions : Advice for non-emergency personnel:  
Do not breathe vapours, aerosols.  
Avoid substance contact.  
Ensure adequate ventilation.  
Evacuate the danger area, observe emergency procedures, consult an expert.  
Advice for emergency responders:  
Protective equipment see section 8.

### 6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.

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

Methods for cleaning up : Cover drains. Collect, bind, and pump off spills.  
Observe possible material restrictions (see sections 7 and 10).  
Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

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## 6.4 Reference to other sections

Indications about waste treatment see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Observe label precautions.

Hygiene measures : Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

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

Requirements for storage areas and containers : Store in original container.

No metal containers.

Further information on storage conditions : Tightly closed.

Risks from decomposition products: see section 10.3

Recommended storage temperature : Recommended storage temperature see product label.

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Tetramethylammonium hydroxyde	Workers	inhalation	Long-term systemic effects	0,49 mg/m <sup>3</sup>
	Workers	dermal	Long-term systemic effects	0,14 mg/kg

#### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Tetramethylammonium hydroxyde	Water	0,0005 mg/l
	Marine water	0,00005 mg/l
	Fresh water sediment	0,03 mg/kg
	Marine sediment	0,003 mg/kg

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	Soil	0,0057 mg/kg
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### 8.2 Exposure controls

#### Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

#### Personal protective equipment

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled and must meet the specifications of a standard EN/ISO/DIN. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Eye protection : Tightly fitting safety goggles

Hand protection :

splash contact

Glove material : Nitrile rubber

Glove thickness : 0,4 mm

Break through time : > 10 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example:KCL 730 Camatril® -Velours(splash contact);.

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

Protective measures : protective clothing

Respiratory protection : required when vapours/aerosols are generated.

Recommended Filter type: : Filter A-(P2)

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

#### Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

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Form	liquid
Colour	colourless
Odour	characteristic
Odour Threshold	No information available.
pH	ca. 13 at 20 °C
Melting point	No information available.
Boiling point/boiling range	ca. 100 °C
Flash point	Not applicable
Evaporation rate	No data available
Flammability (solid, gas)	Not applicable
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Vapour pressure	ca.23 mbar at 20 °C
Relative vapour density	No data available
Density	ca.1 g/cm <sup>3</sup> at 20 °C
Solubility(ies)	No information available.
Water solubility	miscible in all proportions
Partition coefficient: n-octanol/water	No information available.
Auto-ignition temperature	No information available.
Decomposition temperature	No information available.
Viscosity, kinematic	No information available.
Explosive properties	No information available.
Oxidizing properties	No information available.

### 9.2 Other data

Ignition temperature	Not applicable
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Viscosity, dynamic	ca.1 mPas at 20 °C
Corrosion	Corrosive to metals

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

See section 10.3

### 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Violent reactions possible with:  
The generally known reaction partners of water.

### 10.4 Conditions to avoid

Conditions to avoid : no information available

### 10.5 Incompatible materials

Materials to avoid : Metals

### 10.6 Hazardous decomposition products

no information available

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Product:

Acute oral toxicity : Symptoms: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.

Acute toxicity estimate: 1.430 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages:, damage of respiratory tract

Acute dermal toxicity : Acute toxicity estimate: 1.052 mg/kg  
Method: Calculation method



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## Components:

### **Tetramethylammonium hydroxyde:**

Acute oral toxicity : LD50 (Rat, male):  $\geq$  34 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : No data available

Acute dermal toxicity : LD50 (Rat, male and female): 25 mg/kg  
Remarks: (ECHA)

### **Skin corrosion/irritation**

#### Product:

Result: Corrosive, category 1C - where responses occur after exposures between 1 hour and 4 hours and observations up to 14 days.

Remarks: (in analogy to similar products)

Remarks: Mixture causes burns.

## Components:

### **Tetramethylammonium hydroxyde:**

Result: Causes burns.

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

#### Product:

Remarks: Mixture causes serious eye damage.  
Risk of blindness!

## Components:

### **Tetramethylammonium hydroxyde:**

Result: Risk of serious damage to eyes.

### **Respiratory or skin sensitisation**

#### Product:

No data available

## Components:

No data available

### **Germ cell mutagenicity**

#### Product:

No data available

## Components:

No data available

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## **Carcinogenicity**

### **Product:**

This information is not available.

### **Components:**

This information is not available.

### **STOT - single exposure**

#### **Product:**

No data available

#### **Components:**

#### **Tetramethylammonium hydroxyde:**

Target Organs: Nervous system

Assessment: Causes damage to organs.

### **STOT - repeated exposure**

#### **Product:**

No data available

#### **Components:**

#### **Tetramethylammonium hydroxyde:**

Target Organs: Eyes, Skin, Respiratory system, Heart, Liver, Nervous system

Assessment: Causes damage to organs through prolonged or repeated exposure.

### **Repeated dose toxicity**

#### **Product:**

No data available

#### **Components:**

#### **Tetramethylammonium hydroxyde:**

Species: Rat, male and female

NOAEL: 2,5 mg/kg

Application Route: Dermal

Exposure time: 28 d

Number of exposures: daily

Remarks: (External MSDS)

Species: Rat, male and female

NOAEL: 5 mg/kg

Application Route: Oral

Exposure time: 28 d

Method: OECD Test Guideline 407

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## Aspiration toxicity

### Product:

No data available

### Components:

No data available

## Experience with human exposure

### Product:

No data available

### Components:

No data available

## 11.2 Other information

### Product:

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

No data available

#### Components:

#### **Tetramethylammonium hydroxyde:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 359 mg/l  
Exposure time: 96 h  
Remarks: (Lit.)  
The value is given in analogy to the following substances:  
Methylammonium, N,N,N-trimethyl-, Chlorid

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 3 mg/l  
aquatic invertebrates : Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 96 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to daphnia and other : NOEC: 0,025 mg/l  
aquatic invertebrates : Exposure time: 48 h  
(Chronic toxicity) : Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 202

### 12.2 Persistence and degradability

#### Product:

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Biodegradability : Result: Readily biodegradable.  
Method: OECD Test Guideline 301B

## **Components:**

### **Tetramethylammonium hydroxyde:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 100 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

## **12.3 Bioaccumulative potential**

### **Product:**

No data available

### **Components:**

#### **Tetramethylammonium hydroxyde:**

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

## **12.4 Mobility in soil**

### **Product:**

No data available

### **Components:**

#### **Tetramethylammonium hydroxyde:**

No data available

## **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:**

#### **Tetramethylammonium hydroxyde:**

Assessment : Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII..

## **12.6 Other adverse effects**

### **Product:**

Additional ecological information : Discharge into the environment must be avoided.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : See [www.retrologistik.com](http://www.retrologistik.com) for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

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## SECTION 14: Transport information

### Air transport(IATA)

14.1. UN/ID No. : UN 1835  
14.2. Proper shipping name : Tetramethylammonium hydroxide, solution  
  
14.3. Class : 8  
14.4. Packing group : III  
14.5 Environmentally hazardous : --  
14.6 Special precautions for user : no

### Sea transport(IMDG)

14.1. UN number : UN 1835  
14.2. Proper shipping name : TETRAMETHYLAMMONIUM HYDROXIDE SOLUTION  
  
14.3. Class : 8  
14.4. Packing group : III  
14.5 Environmentally hazardous : --  
14.6 Special precautions for user : yes  
EmS Code : F-A, S-B  
Segregation group : Ammonium compounds, Alkalis

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code  
Not relevant

### Land transport(ADR/RID)

14.1. UN number : UN 1835  
14.2. Proper shipping name : TETRAMETHYLAMMONIUM HYDROXIDE SOLUTION  
14.3. Class : 8  
14.4. Packing group : III  
14.5 Environmentally hazardous : --

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## SECTION 15: Regulatory information

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

Regulation (EC) No 850/2004 on persistent organic : Not applicable

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pollutants

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

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (A) : 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

Storage class : 8B

Other regulations : Take note of Dir 94/33/EC on the protection of young people at work.  
Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable.

### 15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

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## SECTION 16: Other information

### Training advice

Provide adequate information, instruction and training for operators.

### Full text of H-Statements

H290 : May be corrosive to metals.  
H300 : Fatal if swallowed.  
H310 : Fatal in contact with skin.  
H314 : Causes severe skin burns and eye damage.  
H318 : Causes serious eye damage.  
H370 : Causes damage to organs.  
H372 : Causes damage to organs through prolonged or repeated exposure.  
H411 : Toxic to aquatic life with long lasting effects.

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

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AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

## Disclaimer

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.