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

1.1 Product identifier

Product name: AZ 9260 Photoresist (520 CPS)

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

Identified uses: Materials for use in technical applications

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
Regional representation: Merck Chemicals Ltd * Boulevard Industrial Park * Padge Road * Beeston * Nottingham * NG9 2JR * Tel. 01159 430840 *information@merckgroup.com.

1.4 Emergency telephone number

+49 (0) 6151 722440

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3

H226: Flammable liquid and vapour.

Specific target organ toxicity - single exposure, Category 3, Central nervous system

H336: May cause drowsiness or dizziness.

Calculation method

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms:

- Flammable
- Health hazard

Signal word: Warning

Hazard statements:

- H226 Flammable liquid and vapour.
- H336 May cause drowsiness or dizziness.

Precautionary statements:

Prevention:

P210 Keep away from heat.
SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

AZ 9260 Photoresist (520 CPS)

Hazardous components which must be listed on the label:
1-Methoxy-2-propanol acetate

2.3 Other hazards
None known.

SECTION 3: Composition/information on ingredients

Chemical nature : Organic mixture in:
Solvent

3.1 Substance
Not applicable

3.2 Mixtures

Hazardous components

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No. Registration number</th>
<th>Classification</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naphthoquinone Diazide Derivative</td>
<td>52125-43-6</td>
<td>Self-heat. 1; H251</td>
<td>&gt;= 1 - &lt; 10</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Skin Irrit. 2; H315</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Eye Irrit. 2; H319</td>
<td></td>
</tr>
</tbody>
</table>

Substances with a workplace exposure limit

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No. Registration number</th>
<th>Classification</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Methoxy-2-propanol acetate</td>
<td>108-65-6; 01-2119475791-29-xxxx</td>
<td>Flam. Liq. 3; H226</td>
<td>&gt;= 50 - &lt;= 100</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STOT SE 3; H336</td>
<td></td>
</tr>
</tbody>
</table>

SECTION 4: First aid measures

4.1 Description of first aid measures

If inhaled : fresh air. Call in physician.

In case of skin contact : Take off immediately all contaminated clothing. Rinse skin with water/shower.

In case of eye contact : rinse out with plenty of water. Remove contact lenses.

If swallowed : caution if victim vomits. Risk of aspiration! Keep airways free. Pulmonary failure possible after aspiration of vomit. Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : somnolence
Drowsiness
Nausea
Vomiting
SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

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Revision Date: 19.08.2019

Product number:  

Headache  
Unconsciousness  
narcosis  
Cyanosis  

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water  
Foam  
Carbon dioxide (CO2)  
Dry powder

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 : Combustible.

Vapours are heavier than air and may spread along floors. Forms explosive mixtures with air at elevated temperatures. Development of hazardous combustion gases or vapours possible in the event of fire.

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 : Cool closed containers exposed to fire with water spray. Prevent fire extinguishing water from contaminating surface water or the ground water system.

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.  
Keep away from heat and sources of ignition.  
Evacuate the danger area, observe emergency procedures, consult an expert.  
Advice for emergency responders:
6.2 Environmental precautions
Environmental precautions: Do not flush into surface water or sanitary sewer system. Risk of explosion.

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 with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

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: Provide sufficient air exchange and/or exhaust in work rooms. Do not inhale substance/mixture. Avoid generation of vapours/aerosols. Observe label precautions.
Advice on protection against fire and explosion: Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.
Hygiene measures: Change contaminated clothing. Wash hands after working with substance.

7.2 Conditions for safe storage, including any incompatibilities
Requirements for storage areas and containers: Store in original container.
Further information on storage conditions: Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition. Protected from light.
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

Occupational Exposure Limits
Components | CAS-No. | Value type (Form of exposure) | Control parameters | Basis |
--- | --- | --- | --- | --- |
1-Methoxy-2-propanol acetate | 108-65-6 | STEL | 100 ppm 550 mg/m³ | 2000/39/EC |
Further information | | | Identified the possibility of significant uptake through the skin, Indicative |
Further information | | | 108-65-6 | TWA | 50 ppm 275 mg/m³ | 2000/39/EC |
Further information | | | Identified the possibility of significant uptake through the skin, Indicative |
Further information | | | 108-65-6 | TWA | 50 ppm 274 mg/m³ | GB EH40 |
Further information | | | Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. |
Further information | | | 108-65-6 | STEL | 100 ppm 548 mg/m³ | GB EH40 |
Further information | | | Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. |

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**

: Safety glasses

**Hand protection**

: splash contact

<table>
<thead>
<tr>
<th>Glove material</th>
<th>Nitrile rubber</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glove thickness</td>
<td>0.4 mm</td>
</tr>
<tr>
<td>Break through time</td>
<td>&gt; 10 min</td>
</tr>
</tbody>
</table>

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).

**Protective measures**

: Flame retardant antistatic protective clothing.

**Respiratory protection**

: required when vapours/aerosols are generated.

**Recommended Filter type**

: ABEK-filter

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The Safety Data Sheets for catalogue items are available at www.merck-performance-materials.com
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. Risk of explosion.

### SECTION 9: Physical and chemical properties

**9.1 Information on basic physical and chemical properties**

- **Form**: liquid
- **Colour**: yellow to red
- **Odour**: ether-like
- **Odour Threshold**: No information available.
- **pH**: No information available.
- **Melting point**: No information available.
- **Boiling point/boiling range**: 134 °C
- **Flash point**: 40 °C
  Test Type: closed cup
- **Evaporation rate**: No information available.
- **Flammability (solid, gas)**: No information available.
- **Lower explosion limit**: No information available.
- **Upper explosion limit**: No information available.
- **Vapour pressure**: ca. 3 mbar
  Method: (calculated)
- **Relative vapour density**: No information available.
- **Density**: 1.07 g/cm³
  at 25 °C
- **Solubility(ies)**: partly soluble - phase separation
- **Water solubility**: No information available.
- **Partition coefficient: n-octanol/water**: No information available.
**SAFETY DATA SHEET**
according to Regulation (EC) No. 1907/2006

**AZ 9260 Photoresist (520 CPS)**

<table>
<thead>
<tr>
<th>Version: 2.0</th>
<th>Product number:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revision Date: 19.08.2019</td>
<td>Print Date: 19.08.2019</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto-ignition temperature</td>
<td>The substance or mixture is not classified as self heating.</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No information available.</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No information available.</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not classified as explosive.</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>none</td>
</tr>
</tbody>
</table>

**9.2 Other data**

None

**SECTION 10: Stability and reactivity**

**10.1 Reactivity**

Vapour/air-mixtures are explosive at intense warming. Formation of peroxides possible.

**10.2 Chemical stability**

Sensitive to air.

Sensitivity to light

**10.3 Possibility of hazardous reactions**

<table>
<thead>
<tr>
<th>Hazardous reactions</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Risk of ignition or formation of inflammable gases or vapours with:</td>
<td>Oxidizing agents</td>
</tr>
<tr>
<td>Violent reactions possible with:</td>
<td>Strong oxidizing agents</td>
</tr>
<tr>
<td>alkalines</td>
<td>Peroxides</td>
</tr>
</tbody>
</table>

**10.4 Conditions to avoid**

Conditions to avoid: Heating.

**10.5 Incompatible materials**

Materials to avoid: Aluminium

Light metals

Resins

Oils

**10.6 Hazardous decomposition products**

in the event of fire: See section 5.

**SECTION 11: Toxicological information**
### 11.1 Information on toxicological effects

#### Acute toxicity

**Product:**
- Acute oral toxicity: No data available
- Acute inhalation toxicity: No data available
- Acute dermal toxicity: No data available

**Components:**

**Naphthoquinone Diazone Derivative:**
- Acute oral toxicity: LD50 (Rat, female): > 5,000 mg/kg
  Method: OECD Test Guideline 401
- Acute inhalation toxicity: No data available
- Acute dermal toxicity: No data available

**1-Methoxy-2-propanol acetate:**
- Acute oral toxicity: LD50 (Rat, male and female): 6,190 mg/kg
  Method: OECD Test Guideline 401
  Remarks: (ECHA)
- Acute inhalation toxicity: No data available
- Acute dermal toxicity: LD50 (Rat, male and female): > 2,000 mg/kg
  Method: OECD Test Guideline 402
  Remarks: (ECHA)

#### Skin corrosion/irritation

**Product:**
No data available

**Components:**

**Naphthoquinone Diazone Derivative:**
- Species: Human
- Method: OECD Test Guideline 431
- Result: Skin irritation
- Remarks: (IUCLID)

**1-Methoxy-2-propanol acetate:**
- Species: Rabbit
- Exposure time: 24 h
- Method: OECD Test Guideline 404
- Result: No skin irritation
- Remarks: (ECHA)

#### Serious eye damage/eye irritation

**Product:**
No data available
Components:

Naphthoquinone Diazide Derivative:
Species: Rabbit
Method: OECD Test Guideline 405
Result: irritating
Remarks: (IUCLID)

1-Methoxy-2-propanol acetate:
Species: Rabbit
Method: OECD Test Guideline 405
Result: No eye irritation
Remarks: (ECHA)

Respiratory or skin sensitisation

Product:
No data available

Components:

Naphthoquinone Diazide Derivative:
Test Type: Local lymph node assay (LLNA)
Species: Mouse
Method: OECD Test Guideline 429
Result: negative
Remarks: (IUCLID)

1-Methoxy-2-propanol acetate:
Test Type: Maximisation Test
Exposure routes: dermal
Species: Guinea pig
Method: OECD Test Guideline 406
Result: Does not cause skin sensitisation.
Remarks: (ECHA)

Germ cell mutagenicity

Product:
No data available

Components:

Naphthoquinone Diazide Derivative:
Genotoxicity in vitro: Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay)
Result: negative
Remarks: (IUCLID)

1-Methoxy-2-propanol acetate:
Genotoxicity in vitro: Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
Remarks: (ECHA)

Carcinogenicity

Product:
This information is not available.

Components:
This information is not available.

Reproductive toxicity

Product:
No data available

Components:

1-Methoxy-2-propanol acetate:
Effects on fertility:
Effects on foetal development:
Species: Rat, female
Application Route: Inhalation
NOAEL Teratog.: > 22.5 mg/l
NOAEL Mater.: 2.7 mg/l
Number of exposures: daily
Test period: 21 d
Method: OECD Test Guideline 414
Remarks: (ECHA)

STOT - single exposure

Product:
No data available

Components:

1-Methoxy-2-propanol acetate:
Assessment: May cause drowsiness or dizziness.
Remarks: (ECHA)

STOT - repeated exposure

Product:
No data available

Components:
No data available

Repeated dose toxicity

Product:
No data available
Components:

1-Methoxy-2-propanol acetate:
Species: Rat, male and female
NOAEL: >= 1,000 mg/kg
Application Route: Oral
Exposure time: 44 d
Number of exposures: daily
Method: OECD Test Guideline 422
Remarks: (ECHA)
Subacute toxicity

Aspiration toxicity

Product:
No data available

Components:
No data available

11.2 Other information

Product:
Properties to be expected based on the main component of the mixture:
Systemic effects:
Nausea
Vomiting
Headache
Unconsciousness
narcosis
Cyanosis
Drowsiness
Aspiration may cause pulmonary oedema and pneumonitis.
Risk of aspiration upon vomiting.
Damage to:
Kidney
Liver
Other dangerous properties can not be excluded.
Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: Ecological information

12.1 Toxicity

Product:
No data available

Components:

Naphthoquinone Diazide Derivative:
Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
### Toxicity to algae/aquatic plants

**EC50** *(Pseudokirchneriella subcapitata (green algae))*: 1.43 - 1.58 mg/l  
**Exposure time**: 72 h  
**Method**: OECD Test Guideline 201  
**Remarks**: (IUCLID)

### Toxicity to microorganisms

**IC50** *(Bacteria)*: > 7 mg/l  
**Remarks**: (Lit.)

### 1-Methoxy-2-propanol acetate:

#### Toxicity to fish

**LC50** *(Oncorhynchus mykiss (rainbow trout))*: 134 mg/l  
**Exposure time**: 96 h  
**Test Type**: static test  
**Method**: OECD Test Guideline 203  
**Remarks**: (ECHA)

#### Toxicity to daphnia and other aquatic invertebrates

**EC50** *(Daphnia magna (Water flea))*: 408 mg/l  
**Exposure time**: 48 h  
**Test Type**: static test  
**Method**: OECD Test Guideline 202  
**Remarks**: (ECHA)

#### Toxicity to algae/aquatic plants

**NOEC** *(Pseudokirchneriella subcapitata (green algae))*: > 1,000 mg/l  
**Exposure time**: 96 h  
**Test Type**: static test  
**Analytical monitoring**: yes  
**Method**: OECD Test Guideline 201  
**Remarks**: (ECHA)

**ErC50** *(Pseudokirchneriella subcapitata (green algae))*: > 1,000 mg/l  
**Exposure time**: 96 h  
**Test Type**: static test  
**Analytical monitoring**: yes  
**Method**: OECD Test Guideline 201  
**Remarks**: (ECHA)

#### Toxicity to microorganisms

**EC10** *(activated sludge)*: > 1,000 mg/l  
**Exposure time**: 30 min  
**Test Type**: static test  
**Method**: OECD Test Guideline 209  
**Remarks**: (ECHA)

**EC20** *(activated sludge)*: > 1,000 mg/l  
**Exposure time**: 30 min  
**Test Type**: static test  
**Method**: OECD Test Guideline 209  
**Remarks**: (ECHA)

#### Toxicity to fish (Chronic toxicity)

**NOEC**: 47.5 mg/l  
**Exposure time**: 14 d
12.2 Persistence and degradability

**Product:**
No data available

**Components:**

**Naphthoquinone Diazide Derivative:**
- **Biodegradability**: Result: Not readily biodegradable. Method: OECD Test Guideline 301D

**1-Methoxy-2-propanol acetate:**
- **Biodegradability**: Test Type: aerobic
  - Inoculum: activated sludge
  - Concentration: 76.4 mg/l
  - Result: Readily biodegradable.
  - Biodegradation: 83 %
  - Exposure time: 28 d
  - Method: OECD Test Guideline 301F
  - Remarks: (ECHA)

**Biochemical Oxygen Demand (BOD)**
- 330 mg/g
  - Incubation time: 5 d
  - Remarks: (IUCLID)

**Chemical Oxygen Demand (COD)**
- 1,740 mg/g
  - Remarks: (IUCLID)

**ThOD**
- 1,820 mg/g
  - Remarks: (IUCLID)

12.3 Bioaccumulative potential

**Product:**
No data available

**Components:**

**Naphthoquinone Diazide Derivative:**
12.4 Mobility in soil

**Product:**
No data available

**Components:**

**Naphthoquinone Diazide Derivative:**
No data available

**1-Methoxy-2-propanol acetate:**
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:**

**Naphthoquinone Diazide Derivative:**
No data available

**1-Methoxy-2-propanol acetate:**
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.

**Components:**

**Naphthoquinone Diazide Derivative:**
No data available

**1-Methoxy-2-propanol acetate:**
No data available
SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product: Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

Notice Directive on waste 2008/98/EC.

SECTION 14: Transport information

Air transport (IATA)
14.1. UN/ID No.: UN 1993
14.2. Proper shipping name: Flammable liquid, n.o.s.

(2-methoxy-1-methylethyl acetate)

14.3. Class: 3
14.4. Packing group: III
14.5 Environmentally hazardous: --
14.6 Special precautions for user: no

Sea transport (IMDG)
14.1. UN number: UN 1993
14.2. Proper shipping name: FLAMMABLE LIQUID, N.O.S.

(2-methoxy-1-methylethyl acetate)

14.3. Class: 3
14.4. Packing group: III
14.5 Environmentally hazardous: --
14.6 Special precautions for user: yes
EmS Code: F-E, S-E

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 1993
14.2. Proper shipping name: FLAMMABLE LIQUID, N.O.S.

(2-methoxy-1-methylethyl acetate)

14.3. Class: 3
14.4. Packing group: III
14.5 Environmentally hazardous: --
SECTION 15: Regulatory information

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

- **REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).** Not applicable
- **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
- **Regulation (EC) No 850/2004 on persistent organic pollutants.** 2-Propenoic acid, 2-[butyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctyl)sulfonyl]amino]ethyl ester, telomer with 2-[butyl[(1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 2-methyloxirane polymer with oxirane di-2-propenoate, 2-methyloxirane polymer with oxirane mono-2-propenoate and 1-octanethiol
- **REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII).** See Annex XVII to Regulation (EC) no 1907/2006 for Conditions of restriction Number on list: 3
  - **P5c FLAMMABLE LIQUIDS**
    - Quantity 1: 5,000 t
    - Quantity 2: 50,000 t
  - Storage class: 3
  - Other regulations: Take note of Dir 94/33/EC on the protection of young people at work.

15.2 Chemical safety assessment

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

SECTION 16: Other information

**Training advice**
Provide adequate information, instruction and training for operators.

**Revision Note**
- Safety datasheet sections which have been updated: SECTION 2 (Classification and labeling), SECTION 15 (Regulatory information)
SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

AZ 9260 Photoresist (520 CPS)

Version: 2.0

Product number: Revision Date: 19.08.2019
Print Date: 19.08.2019

Full text of H-Statements

H226 : Flammable liquid and vapour.
H251 : Self-heating: may catch fire.
H315 : Causes skin irritation.
H319 : Causes serious eye irritation.
H336 : May cause drowsiness or dizziness.

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

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.