

**POLYPROPYLENE HOMOPOLYMER HKR102**

Version: 1.01

Revision Date 2020/03/02

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 Product identifier**

|            |                                  |
|------------|----------------------------------|
| Trade name | Polypropylene Homopolymer HKR102 |
|------------|----------------------------------|

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

|                      |                                 |
|----------------------|---------------------------------|
| Use                  | food industry<br>Industrial use |
| Uses advised against |                                 |

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

|                               |                                                                              |
|-------------------------------|------------------------------------------------------------------------------|
| Company                       | Sasol Chemie GmbH & Co. KG<br>Anckelmannsplatz 1<br>20537 Hamburg<br>Germany |
|                               | Telephone: +49 40 63684-1000<br>Telefax: +49 40 63684-3700                   |
| Information (Product safety): | Telephone: + 49 (0) 23 65 - 49 47 05<br>Telefax: + 49 (0) 23 65 - 49 92 40   |
| E-mail address                | solvents.germany.msds@de.sasol.com                                           |

**1.4 Emergency telephone number**

|                            |                                                                                                                                                                                                                                                        |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Emergency telephone number | +44 (0)1235 239 670 (Europe, Israel, Africa, Americas)<br>+44 (0)1235 239 671 (Middle East, Arabic African countries)<br>+65 3158 1074 (Asia Pacific)<br>+86 10 5100 3039 (China)<br>+27 (0)17 610 4444 (South Africa)<br>+61 (2)8014 4558 (Australia) |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**SECTION 2: HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture.

**2.2 Label elements**

Not a hazardous substance or mixture.

**2.3 Other hazards**

Forms slippery/greasy layers with water.

**POLYPROPYLENE HOMOPOLYMER HKR102**

Version: 1.01

Revision Date 2020/03/02

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**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

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This product is a mixture in the meaning of regulation (EC) 1907/2006.

**CHEMICAL CHARACTERIZATION****1-Propene, homopolymer****component type:** Active ingredient**EC-No.:****Index-No.:****CAS-No.:** 9003-07-0**REACH No.:** Not relevant (polymer)**COMPONENTS TO BE NAMED IN ACCORDANCE WITH REGULATION (EC) 1907/2006 AS WELL AS OTHER HAZARDOUS INGREDIENTS AND CONTAINED SUBSTANCES WITH WORK PLACE LIMIT VALUES**

No hazardous ingredients

**Other data**

stabilised by the addition of an inhibitor

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**SECTION 4: FIRST AID MEASURES**

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**4.1 Description of first aid measures**

|                                |                                                                                                                                                                                                                                                |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General advice</b>          | No hazards which require special first aid measures.                                                                                                                                                                                           |
| <b>If inhaled</b>              | If inhalation of melt processing fumes occurs, remove to fresh air. Remove from exposure, lie down. If breathing is irregular or stopped, administer artificial respiration. Monitor breathing, give oxygen if necessary. Consult a physician. |
| <b>In case of skin contact</b> | Wash off with plenty of water. Cool skin rapidly with cold water after contact with molten polymer. Do not peel polymer from the skin. Consult a physician.                                                                                    |
| <b>In case of eye contact</b>  | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.                                                                                                                                                         |
| <b>If swallowed</b>            | Consult a physician. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.                                                                                                                     |

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

|                                                                    |                                                                                                                   |
|--------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Most important symptoms and effects, both acute and delayed</b> | Symptoms: No information available.<br>Risks: Molten polymer can cause severe burns in contact with skin and eyes |
|--------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|

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

|                                                                                   |                                      |
|-----------------------------------------------------------------------------------|--------------------------------------|
| <b>Indication of any immediate medical attention and special treatment needed</b> | Treatment: No information available. |
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**SECTION 5: FIREFIGHTING MEASURES**

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**5.1 Extinguishing media**

**POLYPROPYLENE HOMOPOLYMER HKR102**

Version: 1.01

Revision Date 2020/03/02

**Suitable extinguishing media** Water spray, Dry powder, Foam, Carbon dioxide (CO<sub>2</sub>)

**Unsuitable extinguishing media** Do NOT use water jet.

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

**Specific hazards during firefighting** Dangerous gases or fumes may occur in case of fire.

**5.3 Advice for firefighters**

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

**Further information** Standard procedure for chemical fires.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Use personal protective equipment.

**Special precautions** Knock down dust with water spray jet. Remove all sources of ignition. Pick up and arrange disposal without creating dust. Forms slippery/greasy layers with water.

**6.2 Environmental precautions**

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

**6.3 Methods and materials for containment and cleaning up**

**Methods for cleaning up** Sweep up or vacuum up spillage and collect in suitable container for disposal. Molten form Allow to solidify, use mechanical handling equipment.

**6.4 Reference to other sections**

For personal protection see section 8.

**SECTION 7: HANDLING AND STORAGE****7.1 Precautions for safe handling**

**Advice on protection against fire and explosion** Normal measures for preventive fire protection.

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

**Requirements for storage areas and containers** Store at room temperature. Keep in a dry, cool and well-ventilated place.

**Advice on common storage** Keep away from solvents. Keep away from oxidizing agents.

**Storage class (TRGS 510)** 10-13: German Storage Class 10 to 13

**Other data** Stable under normal conditions.

**7.3 Specific end use(s)**

**Specific use(s)** This information is not available.

**POLYPROPYLENE HOMOPOLYMER HKR102**

Version: 1.01

Revision Date 2020/03/02

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**8.1 Control parameters****COMPONENTS WITH WORKPLACE CONTROL PARAMETERS****National occupational exposure limits**

No data available

**EUROPEAN OCCUPATIONAL EXPOSURE LIMITS**

No data available

**DERIVED NO EFFECT LEVEL (DNEL)****Substance name: 1-Propene, homopolymer**

No data available

**PREDICTED NO EFFECT CONCENTRATION (PNEC)****Substance name: 1-Propene, homopolymer**

No data available

**8.2 Exposure controls****PERSONAL PROTECTIVE EQUIPMENT**

|                                 |                                                                                                                                                                                                                                                                                                                                   |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Respiratory protection</b>   | No personal respiratory protective equipment normally required. In inadequately ventilated areas, where workplace limits are exceeded, where unpleasant odours exist or where dust, fibres and smoke occur, use self-contained breathing apparatus or breathing apparatus with a type P2 or P3 filter, in compliance with EN 143. |
| <b>Hand protection</b>          | Coordinate hand protection with other chemicals used. Preventive hand protection is recommended., Use barrier cream regularly.                                                                                                                                                                                                    |
| <b>Eye protection</b>           | Safety glasses                                                                                                                                                                                                                                                                                                                    |
| <b>Skin and body protection</b> | Wear suitable protective equipment.                                                                                                                                                                                                                                                                                               |
| <b>Hygiene measures</b>         | Handle in accordance with good industrial hygiene and safety practice.                                                                                                                                                                                                                                                            |
| <b>Protective measures</b>      | Wear suitable protective equipment.                                                                                                                                                                                                                                                                                               |

**ENVIRONMENTAL EXPOSURE CONTROLS**

|              |                                                           |
|--------------|-----------------------------------------------------------|
| <b>Water</b> | Do not flush into surface water or sanitary sewer system. |
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**POLYPROPYLENE HOMOPOLYMER HKR102**

Version: 1.01

Revision Date 2020/03/02

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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

|                                        |                                                       |
|----------------------------------------|-------------------------------------------------------|
| Physical state                         | solid; 20 °C; 1,013 hPa                               |
| Form                                   | solid                                                 |
| Colour                                 | clear to slightly hazy                                |
| Odour                                  | hydrocarbon-like                                      |
| Odour Threshold                        | No valid method available.                            |
| pH                                     | Not applicable                                        |
| Melting point/range                    | 130 - 165 °C                                          |
| Boiling point/boiling range            | Not applicable                                        |
| Flash point                            | > 350 °C                                              |
| Evaporation rate                       | No data available                                     |
| Flammability (solid, gas)              | No data available                                     |
| Lower explosion limit                  | No data available                                     |
| Upper explosion limit                  | No data available                                     |
| Vapour pressure                        | Not relevant / Not applicable, Justification: Solid   |
| Relative vapour density                | > 1                                                   |
| Density                                | 0.88 - 0.92 g/cm <sup>3</sup> ; 25 °C                 |
| Relative density                       | 0.85 - 0.965                                          |
| Water solubility                       | insoluble                                             |
| Partition coefficient: n-octanol/water | not applicable (mixture)                              |
| Ignition temperature                   | > 390 °C                                              |
| Auto-ignition temperature              | not auto-flammable                                    |
| Viscosity, dynamic                     | Not applicable, Justification: Solid                  |
| Explosive properties                   | not expected based on structure and functional groups |
| Oxidizing properties                   | not expected based on structure and functional groups |

**9.2 Other data**

|                   |         |
|-------------------|---------|
| Additional advice | no data |
|-------------------|---------|

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**SECTION 10: STABILITY AND REACTIVITY**

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**10.1 Reactivity**

|      |                                                    |
|------|----------------------------------------------------|
| Note | Stable at normal ambient temperature and pressure. |
|------|----------------------------------------------------|

**10.2 Chemical stability**

|      |                                                     |
|------|-----------------------------------------------------|
| Note | No decomposition if stored and applied as directed. |
|------|-----------------------------------------------------|

**POLYPROPYLENE HOMOPOLYMER HKR102**

Version: 1.01

Revision Date 2020/03/02

**10.3 Possibility of hazardous reactions**

|                            |                                                                |
|----------------------------|----------------------------------------------------------------|
| <b>Hazardous reactions</b> | Hazardous decomposition products formed under fire conditions. |
|----------------------------|----------------------------------------------------------------|

**10.4 Conditions to avoid**

|                            |                                                                                   |
|----------------------------|-----------------------------------------------------------------------------------|
| <b>Conditions to avoid</b> | Direct heating, dirt, chemical contamination, sunlight, UV or ionising radiation. |
|----------------------------|-----------------------------------------------------------------------------------|

**10.5 Incompatible materials to avoid**

|                           |                   |
|---------------------------|-------------------|
| <b>Materials to avoid</b> | Oxidizing agents; |
|---------------------------|-------------------|

**10.6 Hazardous decomposition products**

|                                         |                                                                                                   |
|-----------------------------------------|---------------------------------------------------------------------------------------------------|
| <b>Hazardous decomposition products</b> | Acrolein Formaldehyde-like organic vapors<br>Carbon monoxide<br>Carbon dioxide (CO <sub>2</sub> ) |
|-----------------------------------------|---------------------------------------------------------------------------------------------------|

|                              |                                       |
|------------------------------|---------------------------------------|
| <b>Thermal decomposition</b> | No decomposition if used as directed. |
|------------------------------|---------------------------------------|

**SECTION 11: TOXICOLOGICAL INFORMATION**

1-Propene, homopolymer:

The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).

**11.1 Information on toxicological effects****Acute toxicity**

|                            |                                              |
|----------------------------|----------------------------------------------|
| <b>Acute oral toxicity</b> | 1-Propene, homopolymer:<br>No data available |
|----------------------------|----------------------------------------------|

|                                  |                                              |
|----------------------------------|----------------------------------------------|
| <b>Acute inhalation toxicity</b> | 1-Propene, homopolymer:<br>No data available |
|----------------------------------|----------------------------------------------|

|                              |                                              |
|------------------------------|----------------------------------------------|
| <b>Acute dermal toxicity</b> | 1-Propene, homopolymer:<br>No data available |
|------------------------------|----------------------------------------------|

**Skin corrosion/irritation**

|                        |                                              |
|------------------------|----------------------------------------------|
| <b>Skin irritation</b> | 1-Propene, homopolymer:<br>No data available |
|------------------------|----------------------------------------------|

**Serious eye damage/eye irritation**

|                       |                                              |
|-----------------------|----------------------------------------------|
| <b>Eye irritation</b> | 1-Propene, homopolymer:<br>No data available |
|-----------------------|----------------------------------------------|

**Respiratory or skin sensitisation**

|                      |                                              |
|----------------------|----------------------------------------------|
| <b>Sensitisation</b> | 1-Propene, homopolymer:<br>No data available |
|----------------------|----------------------------------------------|

**Germ cell mutagenicity**

|                              |                                              |
|------------------------------|----------------------------------------------|
| <b>Genotoxicity in vitro</b> | 1-Propene, homopolymer:<br>No data available |
|------------------------------|----------------------------------------------|

|                             |                                              |
|-----------------------------|----------------------------------------------|
| <b>Genotoxicity in vivo</b> | 1-Propene, homopolymer:<br>No data available |
|-----------------------------|----------------------------------------------|

**Carcinogenicity**

**POLYPROPYLENE HOMOPOLYMER HKR102**

Version: 1.01

Revision Date 2020/03/02

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|                                  |                                                                                                           |
|----------------------------------|-----------------------------------------------------------------------------------------------------------|
| <b>Carcinogenicity</b>           | 1-Propene, homopolymer:<br>The product or substance does not contain constituents listed as a carcinogen. |
| <b>Reproductive toxicity</b>     |                                                                                                           |
| <b>Reproductive toxicity</b>     | 1-Propene, homopolymer:<br>This information is not available.                                             |
| <b>STOT - single exposure</b>    |                                                                                                           |
| <b>Remarks</b>                   | 1-Propene, homopolymer:<br>This information is not available.                                             |
| <b>STOT - repeated exposure</b>  |                                                                                                           |
| <b>Remarks</b>                   | 1-Propene, homopolymer:<br>This information is not available.                                             |
| <b>Aspiration hazard</b>         |                                                                                                           |
| <b>Aspiration toxicity</b>       | 1-Propene, homopolymer:<br>Not applicable                                                                 |
| <b>Toxicological information</b> | 1-Propene, homopolymer:<br>Molten polymer can cause severe burns in contact with skin and eyes            |

**SECTION 12: ECOLOGICAL INFORMATION**

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**12.1 Toxicity**

|                                                                               |                                              |
|-------------------------------------------------------------------------------|----------------------------------------------|
| <b>Toxicity to fish</b>                                                       | 1-Propene, homopolymer:<br>No data available |
| <b>Toxicity to fish - Chronic toxicity</b>                                    | 1-Propene, homopolymer:<br>No data available |
| <b>Toxicity to daphnia and other aquatic invertebrates</b>                    | 1-Propene, homopolymer:<br>No data available |
| <b>Toxicity to daphnia and other aquatic invertebrates - Chronic toxicity</b> | 1-Propene, homopolymer:<br>No data available |
| <b>Toxicity to aquatic plants</b>                                             | 1-Propene, homopolymer:<br>No data available |
| <b>Toxicity to bacteria</b>                                                   | 1-Propene, homopolymer:<br>No data available |
| <b>Toxicity to soil dwelling organisms</b>                                    | 1-Propene, homopolymer:<br>No data available |
| <b>Toxicity to terrestrial flora</b>                                          | 1-Propene, homopolymer:<br>No data available |
| <b>Toxicity for other terrestrial non-mammalian fauna</b>                     | 1-Propene, homopolymer:<br>No data available |

**12.2 Persistence and degradability**

|                         |                                                                               |
|-------------------------|-------------------------------------------------------------------------------|
| <b>Biodegradability</b> | 1-Propene, homopolymer:<br>This material is not expected to be biodegradable. |
|-------------------------|-------------------------------------------------------------------------------|

**POLYPROPYLENE HOMOPOLYMER HKR102**

Version: 1.01

Revision Date 2020/03/02

**12.3 Bioaccumulative potential**

**Bioaccumulation** 1-Propene, homopolymer:  
No data available

**12.4 Mobility in soil**

**Mobility** 1-Propene, homopolymer:  
No data available

**12.5 Results of PBT and vPvB assessment**

**Results of PBT 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.

**Results of PBT assessment** 1-Propene, homopolymer:  
No data available

**12.6 Other adverse effects**

**General advice** 1-Propene, homopolymer:  
Aquatic toxicity is unlikely due to low solubility.

**SECTION 13: DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

**Product** Can be incinerated, when in compliance with local regulations.

**waste code of the European Union: EWC** A waste code in accordance with the European Waste Catalogue (EWC) may not be assigned to this product since it admits of a classification only when the consumer uses it for some purpose. The waste code must be determined in agreement with the regional waste disposal authority or company.

**SECTION 14: TRANSPORT INFORMATION****14.1 UN number**

**ADR** Not dangerous goods  
**RID** Not dangerous goods  
**ADN** Not dangerous goods  
**IMDG** Not dangerous goods  
**ICAO/IATA** Not dangerous goods

**14.2 Proper shipping name**

**ADR** Not dangerous goods  
**RID** Not dangerous goods  
**ADN** Not dangerous goods  
**IMDG** Not dangerous goods  
**ICAO/IATA** Not dangerous goods

**14.3 Transport hazard class**

**ADR** Not dangerous goods  
**RID** Not dangerous goods

**POLYPROPYLENE HOMOPOLYMER HKR102**

Version: 1.01

Revision Date 2020/03/02

|           |                     |
|-----------|---------------------|
| ADN       | Not dangerous goods |
| IMDG      | Not dangerous goods |
| ICAO/IATA | Not dangerous goods |

**14.4 Packing group**

|           |                     |
|-----------|---------------------|
| ADR       | Not dangerous goods |
| RID       | Not dangerous goods |
| ADN       | Not dangerous goods |
| IMDG      | Not dangerous goods |
| ICAO/IATA | Not dangerous goods |

**14.5 Environmental hazards**

|           |                           |    |
|-----------|---------------------------|----|
| ADR       | Environmentally hazardous | no |
| RID       | Environmentally hazardous | no |
| ADN       | Environmentally hazardous | no |
| IMDG      | Marine pollutant          | no |
| ICAO/IATA | Environmentally hazardous | no |

**14.6 Special precautions for user**

Not classified as dangerous in the meaning of transport regulations.

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

Remarks No information available.

**SECTION 15: REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****NATIONAL/OTHER REGULATIONS**

|                                                                                            |                                                                                                                                                                                                         |
|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Legislation on the control of major-accident hazards involving dangerous substances</b> | Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.<br>list entry in the directive:: Not applicable |
|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**POLYPROPYLENE HOMOPOLYMER HKR102**

Version: 1.01

Revision Date 2020/03/02

**NOTIFICATION STATUS**

|                                                                     |            |                                             |
|---------------------------------------------------------------------|------------|---------------------------------------------|
| Switzerland. Consolidated Inventory (based on EU-EINECS and EU-NLP) | CH INV     | listed (product or constituents are listed) |
| Canadian Domestic Substances List (DSL)                             | DSL        | listed (product or constituents are listed) |
| Australia Inventory of Chemical Substances (AICS)                   | AICS       | listed (product or constituents are listed) |
| Japan. ENCS - Existing and New Chemical Substances Inventory        | ENCS (JP)  | listed (product or constituents are listed) |
| Japan. ISHL - Inventory of Chemical Substances                      | ISHL (JP)  | listed (product or constituents are listed) |
| Korea. Korean Existing Chemicals Inventory (KECI)                   | KECI (KR)  | listed (product or constituents are listed) |
| Philippines Inventory of Chemicals and Chemical Substances (PICCS)  | PICCS (PH) | listed (product or constituents are listed) |
| China. Inventory of Existing Chemical Substances in China (IECSC)   | IECSC      | listed (product or constituents are listed) |
| Taiwan Chemical Substance Inventory (TCSI)                          | TCSI       | listed (product or constituents are listed) |
| United States TSCA Inventory                                        | TSCA       | listed (product or constituents are listed) |

Please note: the names and CAS numbers which are used for this product in the stated inventories may deviate from the information which is listed in chapter 3.

**15.2 Chemical safety assessment****1-Propene, homopolymer**

A Chemical Safety Assessment is not required for this substance (exempted from obligation to register).

**SECTION 16: OTHER INFORMATION****Safety datasheet sections which have been updated:**

- 3. Composition/information on ingredients
- 8. Exposure controls/personal protection
- 15. Regulatory information

**Further information:**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

**POLYPROPYLENE HOMOPOLYMER HKR102**

Version: 1.01

Revision Date 2020/03/02

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

|           |                                                                                                                   |
|-----------|-------------------------------------------------------------------------------------------------------------------|
| ADN       | Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure |
| ADR       | Accord européen relatif au transport international des marchandises Dangereuses par Route                         |
| AICS      | Australian Inventory of Chemical Substances                                                                       |
| ANSI      | American National Standards Institute                                                                             |
| ASTM      | American Society of Testing and Materials (US)                                                                    |
| BCF       | Bioconcentration factor                                                                                           |
| CLP       | Regulation on Classification, Labelling and Packaging of Substances and Mixtures                                  |
| DIN       | Deutsches Institut für Normung                                                                                    |
| DNEL      | Derived No-Effect Level                                                                                           |
| DSL       | Domestic Substances List                                                                                          |
| EC...     | Effect concentration ... %                                                                                        |
| ENCS      | Existing Notified Chemical Substances (Japan)                                                                     |
| EWG       | European Waste Catalogue                                                                                          |
| IATA      | International Air Transport Association                                                                           |
| IBC       | Intermediate Bulk Container                                                                                       |
| ICAO      | International Civil Aviation Organization                                                                         |
| IMDG      | International Maritime Dangerous Goods                                                                            |
| IMO       | International Maritime Organization                                                                               |
| ISHL      | Industrial Safety and Health Law (Japan)                                                                          |
| ISO       | International Organization for Standardization                                                                    |
| IUPAC     | International Union of Pure and Applied Chemistry                                                                 |
| KECI      | Korea Existing Chemicals Inventory                                                                                |
| LC...     | Lethal Concentration, ...%                                                                                        |
| LD...     | Lethal Dose, ...%                                                                                                 |
| MARPOL    | International Convention for the Prevention of Pollution From Ships                                               |
| NDSL      | Non-Domestic Substances List                                                                                      |
| NOAEL     | no observable adverse effect level                                                                                |
| NOEL/NOEC | No Observed-effect level/concentration                                                                            |
| NZIoC     | New Zealand Inventory of Chemicals                                                                                |
| OECD      | Organisation for Economic Co-operation and Development                                                            |
| PBT       | persistent, bioaccumulative, toxic                                                                                |
| PICCS     | Philippine Inventory of Chemicals and Chemical Substances                                                         |
| PNEC      | Predicted No-Effect Concentration                                                                                 |
| REACH     | Registration, Evaluation, Authorisation and Restriction of Chemicals                                              |
| RID       | Règlement concernant le transport international ferroviaire de marchandises dangereuses                           |
| TG        | Test Guideline                                                                                                    |
| TRGS      | Technische Regeln für Gefahrstoffe                                                                                |
| TSCA      | Toxic Substances Control Act                                                                                      |
| vPvB      | very persistent, very bioaccumulative                                                                             |
| WGK       | Wassergefährdungsklasse                                                                                           |