



<b>SAFETY DATA SHEET</b>	Revision Date: 09.07.2018
	Print Date: 10.12.2018
	SDS Number: R0718369
Advantage™ HC-37 polymer ™ Trademark, Ashland or its subsidiaries, registered in various countries 826041	Version: 3.0

Conforms to EU Regulation 1907/2006/EC as amended. - SDSGHS\_GB

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

### 1.1 Product identifier

Trade name : Advantage™ HC-37  
polymer  
™ Trademark, Ashland or its subsidiaries, registered in  
various countries

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

Recommended use : Personal care

<b>1.3 Details of the supplier of the safety data sheet</b> Ashland P.O. Box 8619 NL3009 AP, Rotterdam Netherlands +31 10 497 5000 (in the Netherlands), or contact your local CSR contact person  EUSMT@ashland.com	<b>1.4 Emergency telephone number</b> 00-800-274-5263-3/001-859-357-3564, or contact your local emergency telephone number at 111 - ENG, SCO, CYM and 0808 808 8000 - NIE (Mo - Fr, 08.00 - 18.00)  <b>Product Information</b> +31 10 497 5000 (in the Netherlands), or contact your local CSR contact person
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## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

Flammable liquids, Category 2	H225: Highly flammable liquid and vapour.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Long-term (chronic) aquatic hazard, Category 3	H412: Harmful to aquatic life with long lasting effects.

### 2.2 Label elements

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

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Hazard pictograms



Signal word

: Danger

Hazard statements

: H225  
H319  
H412

Highly flammable liquid and vapour.  
 Causes serious eye irritation.  
 Harmful to aquatic life with long lasting effects.

Supplemental Hazard Statements

: EUH066

Repeated exposure may cause skin  
 dryness or cracking.

Precautionary statements

: **Prevention:**  
P210

Keep away from heat, hot surfaces, sparks,  
 open flames and other ignition sources. No  
 smoking.

P233

Keep container tightly closed.

P273

Avoid release to the environment.

P280

Wear protective gloves/ eye protection/ face  
 protection.

**Response:**

P303 + P361 + P353 IF ON SKIN (or hair): Take off  
 immediately all contaminated clothing.  
 Rinse skin with water/shower.

P370 + P378

In case of fire: Use dry sand, dry chemical  
 or alcohol-resistant foam to extinguish.

**2.3 Other hazards****Additional advice**

No information available.

**SECTION 3: Composition/information on ingredients****3.2 Mixtures****Hazardous components**

Chemical name	CAS-No. EC-No.	Classification (REGULATION (EC))	Concentration (%)
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	Registration number	No 1272/2008)	
Ethanol	64-17-5 200-578-6 01-2119457610-43-0376 01-2119457610-43-xxxx	Flam. Liq.2; H225 Eye Irrit.2; H319	>= 60,00 - < 70,00
2-PROPENOIC ACID,2-METHYL-,2- (DIMETHYLAMINO)ET HYL ESTER,POLYMER WITH 1- ETHENYLHEXAHYDR O-2H-AZEPIN-2-ONE & 1-ETHENYL-2- PYRROLIDINONE	102972-64-5	Aquatic Chronic3; H412	>= 25,00 - < 40,00

For explanation of abbreviations see section 16.

**SECTION 4: First aid measures**
**4.1 Description of first aid measures**

- General advice : Move out of dangerous area.  
 Call a POISON CENTRE or doctor/physician if exposed or  
 you feel unwell.  
 Show this safety data sheet to the doctor in attendance.  
 Do not leave the victim unattended.
- If inhaled : Move to fresh air.  
 If unconscious, place in recovery position and seek medical  
 advice.  
 Consult a physician after significant exposure.
- In case of skin contact : If on skin, rinse well with water.  
 First aid is not normally required. However, it is  
 recommended that exposed areas be cleaned by washing  
 with soap and water.  
 If on clothes, remove clothes.
- In case of eye contact : Immediately flush eye(s) with plenty of water.  
 Remove contact lenses.  
 Protect unharmed eye.

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If swallowed : Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.

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

Symptoms : Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:  
stomach or intestinal upset (nausea, vomiting, diarrhea)  
irritation (nose, throat, airways)  
Cough  
confusion  
irregular heartbeat  
respiratory failure

Risks : Inhalation of high concentrations of this material, as could occur in enclosed spaces or during deliberate abuse, may be associated with cardiac arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material.  
Causes serious eye irritation.  
Repeated exposure may cause skin dryness or cracking.

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

Treatment : No hazards which require special first aid measures.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Water spray  
Foam  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

Unsuitable extinguishing media : High volume water jet

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

- Specific hazards during firefighting : Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.  
Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : carbon dioxide and carbon monoxide  
formaldehyde-like  
Hydrocarbons  
Nitrogen oxides (NOx)

### 5.3 Advice for firefighters

- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
- Specific extinguishing methods : Product is compatible with standard fire-fighting agents.
- Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
Use a water spray to cool fully closed containers.

## SECTION 6: Accidental release measures

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

- Personal precautions : Evacuate personnel to safe areas.  
Remove all sources of ignition.  
Ensure adequate ventilation.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.  
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.  
Comply with all applicable federal, state, and local regulations.  
Suppress (knock down) gases/vapours/mists with a water spray jet.

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### 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform  
respective authorities.

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

Methods for cleaning up : Contain spillage, and then collect with non-combustible  
absorbent material, (e.g. sand, earth, diatomaceous earth,  
vermiculite) and place in container for disposal according to  
local / national regulations (see section 13).

### 6.4 Reference to other sections

For further information see Section 8 and Section 13 of the safety data sheet.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Open drum carefully as content may be under pressure.  
Avoid formation of aerosol.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Do not breathe vapours/dust.  
Do not smoke.  
Container hazardous when empty.  
Take precautionary measures against static discharges.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
Smoking, eating and drinking should be prohibited in the  
application area.  
For personal protection see section 8.  
Dispose of rinse water in accordance with local and national  
regulations.

Advice on protection against fire and explosion : Take necessary action to avoid static electricity discharge  
(which might cause ignition of organic vapours). No sparking  
tools should be used. Keep away from open flames, hot  
surfaces and sources of ignition. Use only explosion-proof  
equipment.

Hygiene measures : Wash hands before breaks and at the end of workday. When  
using do not eat or drink. When using do not smoke.

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

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. No smoking.

Other data : No decomposition if stored and applied as directed.

**7.3 Specific end use(s)**

Specific use(s) : No data available

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**SECTION 8: Exposure controls/personal protection**
**8.1 Control parameters**
**Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Ethanol	64-17-5	TWA	1.000 ppm 1.920 mg/m <sup>3</sup>	GB EH40

**8.2 Exposure controls**
**Engineering measures**

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

**Personal protective equipment**

Eye protection : Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.

Hand protection

Remarks : Neoprene gloves Nitrile rubber

The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection : Wear as appropriate:  
Impervious clothing



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Safety shoes  
 Flame-resistant clothing  
 Choose body protection according to the amount and  
 concentration of the dangerous substance at the work place.

Respiratory protection : In the case of vapour formation use a respirator with an  
 approved filter.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance	: liquid
Colour	: clear
Odour	: alcohol-like
Odour Threshold	: No data available
pH	: No data available
Melting point/freezing point	: No data available
Boiling point/boiling range	: 77,8 °C
Flash point	: 12,8 °C
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Relative density	: No data available
Density	: 0,9 g/cm <sup>3</sup> (25 °C)



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Solubility(ies)	
Water solubility	: No data available
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Decomposition temperature	: No data available
Viscosity	
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Oxidizing properties	: No data available

No data available

Materials to avoid : Acids  
Alkali metals  
Ammonia

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Bases  
 halogens  
 inorganic materials  
 Oxidizing agents  
 sodium

**10.6 Hazardous decomposition products**

Hazardous decomposition products : carbon dioxide and carbon monoxide  
 formaldehyde-like  
 Hydrocarbons

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

Information on likely routes of exposure : Inhalation  
 Skin contact  
 Eye Contact  
 Ingestion

**Acute toxicity**

Not classified based on available information.

**Components:**

Ethanol

Acute oral toxicity : LD50 (Rat): 7.060 mg/kg

Acute inhalation toxicity : LC50 (Rat): 117 - 125 mg/l  
 Exposure time: 4 h  
 Test atmosphere: vapour

Acute dermal toxicity : LDLo (Rabbit): 20 g/kg

**Components:**

2-PROPENOIC ACID,2-METHYL-,2-(DIMETHYLAMINO)ETHYL ESTER,POLYMER WITH 1-ETHENYLHEXAHYDRO-2H-AZEPIN-2-ONE & 1-ETHENYL-2-PYRROLIDINONE

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg

**Skin corrosion/irritation**

Repeated exposure may cause skin dryness or cracking.

**Product:**

Remarks: May cause skin irritation in susceptible persons.



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Result: Repeated exposure may cause skin dryness or cracking.

**Components:**

Ethanol

Result: Slight, transient irritation

2-PROPENOIC ACID,2-METHYL-,2-(DIMETHYLAMINO)ETHYL ESTER,POLYMER WITH 1-ETHENYLHEXAHYDRO-2H-AZEPIN-2-ONE & 1-ETHENYL-2-PYRROLIDINONE

Result: No skin irritation

**Serious eye damage/eye irritation**

Causes serious eye irritation.

**Product:**

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin., Causes serious eye irritation.

**Components:**

Ethanol

Result: Irritating to eyes.

2-PROPENOIC ACID,2-METHYL-,2-(DIMETHYLAMINO)ETHYL ESTER,POLYMER WITH 1-ETHENYLHEXAHYDRO-2H-AZEPIN-2-ONE & 1-ETHENYL-2-PYRROLIDINONE

Result: No eye irritation

**Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

**Germ cell mutagenicity**

Not classified based on available information.

**Components:**

2-PROPENOIC ACID,2-METHYL-,2-(DIMETHYLAMINO)ETHYL ESTER,POLYMER WITH 1-ETHENYLHEXAHYDRO-2H-AZEPIN-2-ONE & 1-ETHENYL-2-PYRROLIDINONE

Genotoxicity in vitro : Test Type: Ames test  
Result: negative

**Carcinogenicity**

Not classified based on available information.

**Reproductive toxicity**

Not classified based on available information.

**STOT - single exposure**

Not classified based on available information.

**STOT - repeated exposure**

Not classified based on available information.

**Aspiration toxicity**

Not classified based on available information.

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### Further information

#### Product:

Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting., Concentrations substantially above the TLV value may cause narcotic effects., Solvents may degrease the skin.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

Ethanol

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 12.000 - 16.000 mg/l  
Exposure time: 96 h  
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 10.000 mg/l  
Exposure time: 48 h  
Test Type: static test

2-PROPENOIC ACID,2-METHYL-,2-(DIMETHYLAMINO)ETHYL ESTER,POLYMER WITH 1-ETHENYLHEXAHYDRO-2H-AZEPIN-2-ONE & 1-ETHENYL-2-PYRROLIDINONE

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 24,1 mg/l  
Exposure time: 96 h  
Test Type: flow-through test  
Remarks: Based on a similar product formulation.

### 12.2 Persistence and degradability

#### Components:

2-PROPENOIC ACID,2-METHYL-,2-(DIMETHYLAMINO)ETHYL ESTER,POLYMER WITH 1-ETHENYLHEXAHYDRO-2H-AZEPIN-2-ONE & 1-ETHENYL-2-PYRROLIDINONE

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 27 %  
Exposure time: 28 d  
Remarks: Based on a similar product formulation.

### 12.3 Bioaccumulative potential

#### Components:

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Ethanol  
Partition coefficient: n- : log Pow: -0,31  
octanol/water

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

Not relevant

### 12.6 Other adverse effects

#### Product:

Additional ecological : An environmental hazard cannot be excluded in the event of  
information unprofessional handling or disposal., Harmful to aquatic life  
with long lasting effects.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water  
courses or the soil.  
Do not contaminate ponds, waterways or ditches with  
chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Empty containers should be taken to an approved waste  
handling site for recycling or disposal.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

## SECTION 14: Transport information


### SECTION 14: Transport information

#### 14.1 UN number

ADR: UN1866

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: UN1866

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: UN1866

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**INTERNATIONAL MARITIME DANGEROUS GOODS:** UN1866

**RID:** UN1866

#### 14.2 UN proper shipping name

**ADR:** RESIN SOLUTION

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:** Resin solution

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:** Resin solution

**INTERNATIONAL MARITIME DANGEROUS GOODS:** RESIN SOLUTION

**RID:** RESIN SOLUTION

#### 14.3 Transport hazard class(es)

**ADR:** 3

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:** 3

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:** 3

**INTERNATIONAL MARITIME DANGEROUS GOODS:** 3

**RID:** 3

#### 14.4 Packing group

**ADR:** II

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:** II

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:** II

**INTERNATIONAL MARITIME DANGEROUS GOODS:** II

**RID:** II

#### 14.5 Environmental hazards

**ADR:** Not applicable

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:** Not applicable

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:** Not applicable

**INTERNATIONAL MARITIME DANGEROUS GOODS:** Not applicable

**RID:** Not applicable

#### 14.6 Special precautions for user


Not applicable

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

Ship Type: Not applicable

Hazard code(s): Not applicable

Pollutant Category: Not applicable

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Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

## SECTION 15: Regulatory information

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

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

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

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

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)	: Conditions of restriction for the following entries should be considered: ethanol; ethyl alcohol (40)
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Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

		Quantity 1	Quantity 2
P5c	FLAMMABLE LIQUIDS	5.000 t	50.000 t
34	Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams), (d) heavy fuel oils (e) alternative fuels serving the same purposes and with similar properties as regards flammability and environmental hazards as the products referred to in points (a) to (d)	2.500 t	25.000 t

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Other regulations : Young people under 18 years old are not allowed to work with this product according to the EU Directive 94/33/EC on the protection of young people at work.

**The components of this product are reported in the following inventories:**

DSL : All components of this product are on the Canadian DSL

AICS On the inventory, or in compliance with the inventory

ENCS Personal care

KECI On the inventory, or in compliance with the inventory

PICCS On the inventory, or in compliance with the inventory

IECSC On the inventory, or in compliance with the inventory

TSCA On TSCA Inventory

**Inventories**

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

**15.2 Chemical safety assessment**

No data available

**SECTION 16: Other information****Further information**

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**Classification procedure:**

H225 Highly flammable liquid and vapour. On basis of test data.





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H319	Causes serious eye irritation.	Calculation method
H412	Harmful to aquatic life with long lasting effects.	Calculation method

#### Full text of H-Statements

H225	Highly flammable liquid and vapour.
<b>H319</b>	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

Other information : The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Ashland's Environmental Health and Safety Department (+31 10 497 5000).

Sources of key data used to compile the Safety Data Sheet  
 Ashland internal data including own and sponsored test reports  
 The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :

ACGIH : American Conference of Industrial Hygienists  
 BEI : Biological Exposure Index  
 CAS : Chemical Abstracts Service (Division of the American Chemical Society).  
 CMR : Carcinogenic, Mutagenic or Toxic for Reproduction  
 FG : Food grade  
 GHS : Globally Harmonized System of Classification and Labeling of Chemicals.  
 H-statement : Hazard Statement  
 IATA : International Air Transport Association.  
 IATA-DGR : Dangerous Goods Regulation by the "International Air Transport Association" (IATA).  
 ICAO : International Civil Aviation Organization  
 ICAO-TI (ICAO) : Technical Instructions by the "International Civil Aviation Organization"  
 IMDG : International Maritime Code for Dangerous Goods  
 ISO : International Organization for Standardization  
 logPow : octanol-water partition coefficient



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LCxx : Lethal Concentration, for xx percent of test population  
 LDxx : Lethal Dose, for xx percent of test population.  
 ICxx : Inhibitory Concentration for xx of a substance  
 Ecxx : Effective Concentration of xx  
 N.O.S.: Not Otherwise Specified  
 OECD : Organization for Economic Co-operation and Development  
 OEL : Occupational Exposure Limit  
 P-Statement : Precautionary Statement  
 PBT : Persistent , Bioaccumulative and Toxic  
 PPE : Personal Protective Equipment  
 STEL : Short-term exposure limit  
 STOT : Specific Target Organ Toxicity  
 TLV : Threshold Limit Value  
 TWA : Time-weighted average  
 vPvB : Very Persistent and Very Bioaccumulative  
 WEL : Workplace Exposure Level

ABM : Water Hazard Class for the Netherlands  
 ADR : Agreement concerning the International Carriage of Dangerous Goods by Road.  
 ADNR: Regulation for the Carriage of Dangerous Substances on the Rhine  
 CLP : Classification, Labelling and Packaging  
 CSA : Chemical Safety Assessment  
 CSR : Chemical Safety Report  
 DNEL : Derived No Effect Level.  
 EINECS : European Inventory of Existing Commercial Chemical Substances.  
 ELINCS : European List of Notified Chemical Substances  
 GV: Exposure limits (DK)  
 PEC : Predicted Effect Concentration  
 PEL : Permissible Exposure Limits  
 PNEC : Predicted No Effect Concentration  
 R-pharse : Risk phrase  
 REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals  
 RID : Regulation Concerning the International Transport of Dangerous Goods by Rail  
 S-pharse: Safety phrase  
 WGK : German Water Hazard Class