

SAFETY DATA SHEET (SDS-CA)

DEGADUR® 112

Version:	3.1 / CA	VA-No.
Revision date:	06/13/2018	
Issue date:	01/12/2016	
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1. Product and Company Identification

1.1. Product identifier

DEGADUR® 112

Solution of an acrylic polymer in an acrylic acid ester

1.2. Recommended use of the chemical and restrictions on use

Relevant applications identified : binder for floor-coating

Applications which are not advised : None known.

1.3. Details of the supplier of the safety data sheet

Evonik Canada Inc.
3380 South Service Road
Burlington, ON L7N 3J5
Canada

Phone number:
1-905-336-3423

Fax number:
1-905-332-5632

Email address:
product-regulatory-services@evonik.com

1.4. 24 HOUR EMERGENCY TELEPHONE NUMBERS:

CHEMTREC -US & CANADA:	800-424-9300
CHEMTREC MEXICO:	01-800-681-9531
CHEMTREC INTERNATIONAL:	+1 703-527-3887 (collect calls accepted)
CANADA: CANUTEC EMERGENCY NUMBER:	613-996-6666
Product Regulatory Services:	973-929-8060

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2. Hazards identification

2.1. Classification of the substance or mixture

Hazardous Products Regulations

Flammable liquids	Category 2	H225
Skin irritation	Category 2	H315
Skin Sensitisation	Sub-category 1B	H317
Specific target organ toxicity - single exposure (Respiratory system)	Category 3	H335
Acute aquatic toxicity	Category 3	H402

2.2. Label elements

Constituent decisive for hazardous-substance labeling : methyl methacrylate; CAS-No.: 80-62-6

triethyleneglycol dimethacrylate; CAS-No.: 109-16-0

Symbol(s) :



Signal word : Danger

hazard statement : H225 - Highly flammable liquid and vapour.
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H335 - May cause respiratory irritation.
H402 - Harmful to aquatic life.

Precautionary Statement (Prevention) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 - Keep container tightly closed.
P240 - Ground and bond container and receiving equipment.
P241 - Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 - Use non-sparking tools.
P243 - Take action to prevent static discharges.
P261 - Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 - Wash skin thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/ eye protection/ face protection.

Precautionary Statement (Response) : P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 - Call a POISON CENTER/doctor if you feel unwell.
P333 + P313 - If skin irritation or rash occurs: Get medical advice/ attention.
P362 + P364 - Take off contaminated clothing and wash it before reuse.
P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Precautionary Statement (Storage) : P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
P235 - Keep cool.
P405 - Store locked up.

Precautionary Statement (Disposal) : P501 - Dispose of contents/ container to an approved waste disposal plant.

2.3. Other hazards

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The product is normally supplied in a stabilized form. If the permissible storage period and/or storage temperature is exceeded, the product may polymerize with heat evolution.
Take precautionary measures against static discharges.

3. Composition/information on ingredients

Solution of an acrylic polymer in an acrylic acid ester

3.1. Substances

-

3.2. Mixtures

Hazardous Ingredients

Chemical Name	CAS-No.	Concentration	Classification
methyl methacrylate	80-62-6	60.0 % - 80.0 %	Flam. Liq., 2, H225 Skin Irrit., 2, H315 Skin.sens., 1B, H317 STOT SE, 3, H335 Aquatic Acute, 3, H402
triethyleneglycol dimethacrylate	109-16-0	3.0 % - 7.0 %	Skin.sens., 1B, H317 Aquatic Acute, 3, H402
N,N-bis-(2-hydroxypropyl)-p-toluidine	38668-48-3	0.1 % - 1.0 %	Acute Tox., 2, H300, Oral Eye Irrit., 2A, H319 Aquatic Acute, 3, H402 Aquatic Chronic, 3, H412
The exact concentration has been withheld as a trade secret.	---		

Texts of H phrases, see in Chapter 16

4. First-aid measures

4.1. Description of first aid measures

- General advice : Take off all contaminated clothing immediately. Medical treatment is necessary if symptoms occur which are obviously caused by skin or eye contact with the product or by inhalation of its vapours.
- Inhalation : Move subject to fresh air and keep him calm. If feeling unwell seek medical advice.
- Skin contact : IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before re-use. In the case of skin irritation or allergic reactions see a physician.
- Eye contact : Rinse thoroughly with plenty of water, also under the eyelids. In case of complaints get medical advice.
- Ingestion : Do not induce vomiting. Have the mouth rinsed with water. IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

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

Causes skin and eye irritation., Excessive or prolonged exposure can cause the following:, Headache, confusion, Skin contact may provoke the following symptoms:, Sensitisation

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

No specific antidote known.
Symptomatic treatment.

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5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media : foam
dry chemical
carbon dioxide

Unsuitable extinguishing media : High volume water jet

5.2. Specific hazards arising from the chemical

May be released in case of fire: carbon monoxide, carbon dioxide, organic products of decomposition.
Closed container may rupture if strongly heated.
Vapours may form explosive mixtures with air.
Combustible air-vapour mixtures are heavier than the air and spread along the floor. Ignition from a considerable distance is possible.

5.3. Special protective equipment and precautions for fire-fighters

Evacuate enclosed and surrounding areas.
As in any fire, wear self-contained breathing apparatus pressure-demand, MSH/NIOSH (approved or equivalent) and full protective gear.
Use water spray to cool containers exposed to fire and disperse vapors.
Keep spills away from sources of ignition.
Vapours are heavier than air and can form an explosive mixture with air.
Flammable liquid. Vapors can travel to a source of ignition and flash back. Explosive mixtures may occur at temperatures at or above the flashpoint.
Remove all sources of ignition.
Also keep emptied containers away from sources of heat and ignition.
Keep out unprotected persons.
In case of fire, remove the endangered barrels and bring to a safe place, if this can be done safely.
Containers exposed to heat (fire) may build up pressure. Cool by splashing with water.
Prevent fire extinguishing water from contaminating surface water or the ground water system.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Assure sufficient ventilation.
Use personal protective clothing.
Use breathing apparatus if exposed to vapours/dust/mist/aerosol.
Keep away from open flames, hot surfaces and sources of ignition.
Vapours can form explosive mixtures with air.
Keep out unprotected persons.
Avoid spark generation.

6.2. Environmental precautions

Prevent product from getting into drains/surface water/groundwater.

6.3. Methods and material for containment and cleaning up

Remove sources of ignition and ventilate area.
All equipment used when handling the product must be grounded.
Use personal protective equipment.
Absorb spill with inert material and place in a chemical waste container.
Obey relevant local, state, provincial and federal laws and regulations.
Do not contaminate any lakes, streams, ponds, groundwater or soil.
See Material Safety Data Sheet section 8, Exposure Controls/Personal Protection.

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7. Handling and storage

7.1. Precautions for safe handling

- Safe handling advice : Use only trained personnel. Remove contaminated clothing and wash it before reuse. Product is supplied in a stabilized form. Keep locked up. Keep away from heat. Keep away from sparks, flames and other sources of ignition. Use explosion proof equipment. Take precautionary measures against static discharges. Open container carefully as it may be pressurized. Use portable ventilation if necessary at job site. Ground and bond containers when transferring material. The need for grounding and bonding of containers in accordance with OSHA 29 CFR 1910.106 and NFPA 77 should be assessed for all product transfers. Keep container tightly closed. Do not eat, drink, smoke or chew tobacco around material. Use only with adequate ventilation. Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Container hazardous when empty. Emptied container retains vapor and product residue. Follow all MSDS/label precautions even after the container is emptied. Residual vapors might explode on ignition; do not apply heat, cut, drill, grind or weld on or near this container.
- Advice on protection against fire and explosion : Keep away from sources of ignition --- No smoking. Vapors are heavier than air. Flammable liquid. Vapors can travel to a source of ignition and flash back. Explosive mixtures may occur at temperatures at or above the flashpoint. Take precautionary measures against static discharges. Use explosion-proof equipment. In the event of fire, cool the endangered containers with water. Fire fighting must be carried out from a safe distance.

7.2. Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Keep container closed when not in use. Ensure there is good room ventilation. Limit storage of flammable liquids to approved areas equipped with overhead sprinklers. Protect material from contamination (refer to Section 10 for incompatibilities). Residual vapors might explode on ignition; do not apply heat, cut, drill, grind or weld on or near this container. Do not heat or cut the empty container with electric or gas torch. Keep in the original container at a temperature not exceeding 30 °C (86 °F). Keep away from heat. Keep away from sparks, flames and other sources of ignition. Keep locked up. Fill the container by approximately 90 % only as oxygen (air) is required for stabilisation. With large storage containers make sure the oxygen (air) supply is sufficient to ensure stability.
- Further information : Improper disposal or re-use of this container may be dangerous and illegal. Keep away from direct sunlight.

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8. Exposure controls/personal protection

8.1. Control parameters

Exposure Limit Information

METHYL METHACRYLATE

(CAS Number 80-62-6)

Occupational Exposure Values			Remark(s):
OEL-TWA (Alberta)	50 ppm	205 mg/m ³	
OEL-STEL (Alberta)	100 ppm	410 mg/m ³	
OEL-TWA (British Columbia)	50 ppm		Capable of causing respiratory, demal or conjunctival sensitization.
OEL-STEL (British Columbia)	100 ppm		Capable of causing respiratory, demal or conjunctival sensitization.
OEL-TWA (Ontario)	50 ppm		
OEL-STEL (Ontario)	100 ppm		
OEL-TWA (Quebec)	50 ppm	205 mg/m ³	Sensitiser
OEL-STEL (Quebec)			not established
OEL-TWA (Mexico)	50 ppm		Carcinogen Category 4 - not classifiable as a human carcinogen
OEL-STEL (Mexico)	100 ppm		Carcinogen Category 4 - not classifiable as a human carcinogen
OEL-STEL (Saskatchewan)	100 ppm		The product may cause sensitization.
OEL-TWA (Saskatchewan)	50 ppm		The product may cause sensitization.
OEL-STEL (Manitoba)	100 ppm		Sensitiser
OEL-TWA (Manitoba)	50 ppm		Sensitiser
OEL-STEL (California)	100 ppm	410 mg/m ³	
OEL-STEL (California)	50 ppm	205 mg/m ³	
OEL-TWA (Oregon)	100 ppm	410 mg/m ³	
OEL-TWA (Tennessee)	100 ppm	410 mg/m ³	

8.2. Exposure controls

Engineering controls

Provide general and/or local exhaust ventilation to maintain airborne levels below the exposure limits in Section 8. Refer to the current edition of 'Industrial Ventilation: A Manual of Recommended Practice' published by the American Conference of Government Industrial Hygienists for information on the design, installation, use, and maintenance of exhaust systems.

8.3. Personal protective equipment

Protective measures Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. A safety shower and eye wash fountain should be readily available. To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product.

Hygiene measures Take off all contaminated clothing immediately. Store work clothing separately. Follow the usual good standards of occupational hygiene. Clean skin thoroughly after work; apply skin cream.

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Respiratory protection	A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.
Hand protection	butyl rubber gloves (0.33 mm), Break through time approx. 66 min (EN 374) In practice, due to variable exposure conditions, this information can only be an aid to orientation for the selection of a suitable chemical protection glove. In particular, this information does not substitute suitability tests by the end user.
Splash protection	nitrile rubber gloves (minimal thickness 0.11 mm)
General information	Gloves should be replaced regularly, especially after extended contact with the product. For each work-place a suitable glove type has to be selected.
Eye protection	Use safety glasses (ANSI Z87.1 or approved equivalent).
Skin and body protection	On handling of larger quantities: face mask, chemical-resistant boots and apron

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: liquid
Form	: liquid
Colour	: colourless, slightly turbid
Odour	: ester-like
pH	: not applicable
Paraffin Separation	: < 15 °C
	: 59 °F
Boiling Point	: approx. 100 °C (1,013 hPa)
Flash point	: 10 °C Method: DIN 51 755 Remarks: (methyl methacrylate) 48 °F Method: Setaflash Closed Cup Remarks: (methyl methacrylate)
Flammability	: no data available
Upper explosion limit	: 12.5 %(V) Remarks: (methyl methacrylate)
Lower explosion limit	: 2.1 %(V) Remarks: (methyl methacrylate)
Vapour pressure	: approx. 40 hPa (20 °C) (68 °F)
Relative vapour density	: > 1 (20 °C) (68 °F)

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Relative density : no data available
Solubility(ies) : no data available
Solubility (qualitative) : soluble in ethyl acetate
Water solubility : approx. 20 g/l
(20 °C)
approx. 20 g/l
(68 °F)

Fat solubility : no data available
Partition coefficient: n-
octanol/water : no data available
Autoignition temperature : no data available
Thermal decomposition : This product is stable under normal storage conditions.
Viscosity, kinematic : no data available
Viscosity, dynamic : 100 mPa.s
(23 °C)
(73 °F)

Density : 1.00 g/cm³
(20 °C)

(68 °F)

9.2. Other information

sublimation : no data available
Ignition temperature : 430 °C
Method: DIN 51794
Remarks: (methyl methacrylate)
806 °F
Method: DIN 51794
Remarks: (methyl methacrylate)
Impact Sensitivity : Not impact sensitive.
Other information : none

10. Stability and reactivity

10.1. Reactivity

see section 10.2.

10.2. Chemical stability

This product is stable under normal storage conditions.

10.3. Possibility of hazardous reactions

Polymerization with heat evolution may occur in the presence of radical forming substances (e.g. peroxides), reducing substances, and/or heavy metal ions.

Vigorous polymerization is possible when heated /exposed to heat.

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10.4. Conditions to avoid

Avoid high temperatures and sources of ignition. Ultraviolet light.
The product is normally supplied in a stabilized form. If the permissible storage period and/or storage temperature is exceeded, the product may polymerize with heat evolution.

10.5. Incompatible materials

Peroxides, amines, sulfur compounds, heavy metal ions, alkalis, reducing agents and oxidizing agents.

10.6. Hazardous decomposition products

None when used as directed.

11. Toxicological information

11.1. Information on toxicological effects

- toxicokinetics, metabolism and distribution : no specific test data available
- Acute toxicity (oral) : Acute toxicity estimate
Dose: 2,632 mg/kg
Method: Calculation method
- Acute toxicity (dermal) : Acute toxicity estimate
Dose: > 5,000 mg/kg
Method: Calculation method
- Irritation/corrosion of the skin : Result: irritating
Remarks: Properties of components in summary.
Related to substance: product
- Serious eye damage/ eye irritation : Remarks: Contact with the eyes may cause irritation.
Properties of components in summary.
Related to substance: product
- Respiratory/skin sensitization : Species: Mouse
Classification: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Method: OECD TG 429
Remarks: (own study)
In humans various types of allergic reactions have been observed (symptoms: headache, eye irritations, skin affections).
Related to substance: methyl methacrylate
- Species: Mouse
Classification: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Method: OECD TG 429
Remarks: (own study)
Related to substance: triethyleneglycol dimethacrylate

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- Repeated dose toxicity : Species: Rat
F 244
Application Route: inhalative
2 Years
NOAEL: 25 ppm
Assessment: Dose ad which no adverse effects were observed (NOAEL)., At higher doses adverse effects were observed.
Remarks: Findings: Damage to mucous membranes in the nose at 400 ppm
Related to substance: methyl methacrylate
- Species: Rat
Wistar
Application Route: in drinking water
2 Years
NOAEL: 2000 ppm
Remarks: Findings: no toxic effects
Related to substance: methyl methacrylate
- CMR assessment
- Carcinogenicity : Contains no ingredient listed as a carcinogen (>0.1%).
No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA.
- Mutagenicity : Contains no ingredient listed as a mutagen (>0.1%).
- Teratogenicity : Does not contain any component that has been classified as teratogenic (>0.1%).
- Toxicity to reproduction : Contains no ingredient listed as toxic to reproduction (>0.1%).
- Aspiration hazard : not applicable
- Other information : Symptoms of poisoning may occur many hours after contact.
There are no toxicological data available for the product as such.
Avoid contact with the skin and eyes and inhalation of the product vapours.

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12. Ecological information

12.1. Toxicity

Aquaticity, fish : Species: Oncorhynchus mykiss (rainbow trout)
Exposure duration: 96 h
LC50: > 79 mg/l
Method: OECD 203, flow through
GLP: GLP
Related to substance: methyl methacrylate

Aquaticity, invertebrates : Species: Daphnia magna
Exposure duration: 48 h
EC50: 69 mg/l
Method: OECD 202, flow through
Related to substance: methyl methacrylate

Species: Daphnia magna
Exposure duration: 21 d
EC0: 37 mg/l
Method: OECD 202 part 2, flow through
Related to substance: methyl methacrylate

Aquaticity, algae / aquatic plants : Species: Scenedesmus quadricauda
Exposure duration: 8 d
EC3: 37 mg/l
Method: DIN 38412, T.9
Related to substance: methyl methacrylate

Toxicity in microorganisms : Species: Pseudomonas putida
EC0: 100 mg/l
Related to substance: methyl methacrylate

12.2. Persistence and degradability

Biological degradability : Result: biodegradable
Remarks: (monomer constituent), (analogy)

12.3. Bioaccumulative potential

Bioaccumulation : no evidence for hazardous properties

12.4. Mobility in soil

Environmental distribution : no specific test data available

12.5. Other adverse effects

General Information : Prevent substance from entering soil, natural bodies of water and sewer systems.

13. Disposal considerations

13.1. Waste treatment methods

Product : Waste must be disposed of in accordance with federal, state and local regulations.
Incineration is the preferred method.
Empty containers must be handled with care due to product residue.
DO NOT HEAT OR CUT THE EMPTY CONTAINER WITH ELECTRIC OR GAS TORCH.

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Contaminated packaging : Contaminated packages must be emptied as good as possible. They may then be recycled after proper cleaning. Packages that cannot be cleaned must be disposed of in the same way as the substance.
Uncontaminated packaging may be taken for recycling.

14. Transport information

T.D.G. Road/Rail

4.1. UN number: UN 1866
4.2. UN proper shipping name: RESIN SOLUTION
4.3. Transport hazard class(es): 3
4.4. Packing group: II
14.5. Environmental hazards (Marine pollutant): --
14.6. Special precautions for user: No

Air transport ICAO-TI/IATA-DGR

4.1. UN number: UN 1866
4.2. UN proper shipping name: Resin solution
4.3. Transport hazard class(es): 3
4.4. Packing group: II
14.5. Environmental hazards: --
14.6. Special precautions for user: No

Sea transport IMDG-Code/GGVSee (Germany)

4.1. UN number: UN 1866
4.2. UN proper shipping name: RESIN SOLUTION
4.3. Transport hazard class(es): 3
4.4. Packing group: II
14.5. Environmental hazards (Marine pollutant): --
14.6. Special precautions for user: No
EmS: F-E,S-E

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:
for transport approval see regulatory information

15. Regulatory information

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

US STATE REGULATORY INFORMATION

Component / CASRN	New Jersey RTK	Pennsylvania a RTK	Massachusetts RTK	California Proposition 65 Cancer	California Proposition 65 Reproductive
methyl methacrylate / 80-62-6	YES	YES	YES	NO	NO
triethyleneglycol dimethacrylate / 109-16-0	NO	NO	NO	NO	NO
acrylic polymer	NO	NO	NO	NO	NO

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OTHER LABELING SYSTEMS

	Health	Flammability	Physical Hazard
HMIS-Ratings	2	3	2
NFPA-Ratings	2	3	2

CANADIAN REGULATION

Component / CASRN	NPRI
methyl methacrylate / 80-62-6	YES
triethyleneglycol dimethacrylate / 109-16-0	NO

Status of Registration

REACH (EU)	preregistered, registered or exempted
TSCA (USA)	listed or exempted
DSL (CDN)	listed or exempted
AICS (AUS)	listed or exempted
METI (J)	listed or exempted
ECL (KOR)	listed or exempted
PICCS (RP)	listed or exempted
IECSC (CN)	listed or exempted
HSNO (NZ)	listed or exempted

16. Other information

Other information : The product is normally supplied in a stabilized form. If the permissible storage period and/or storage temperature is exceeded, the product may polymerize with heat evolution.

Relevant H phrases from chapter 3

H225 : Highly flammable liquid and vapour.
H300 : Fatal if swallowed.
H315 : Causes skin irritation.
H317 : May cause an allergic skin reaction.
H319 : Causes serious eye irritation.
H335 : May cause respiratory irritation.
H402 : Harmful to aquatic life.
H412 : Harmful to aquatic life with long lasting effects.

References : relevant manuals and publications
own examinations
own toxicological and ecotoxicological studies
toxicological and ecotoxicological studies of other manufacturers
SIAR
OECD-SIDS
RTK public files

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Legend

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADNR	European agreement concerning the international carriage of dangerous goods by inland waterways (ADN)
ASTM	American Society for Testing and Materials
ATP	Adaptation to Technical Progress
BCF	Bioconcentration factor
BetrSichV	German Ordinance on Industrial Safety and Health
c.c.	closed cup
CAS	Chemical Abstract Services
CESIO	European Committee of Organic Surfactants and their Intermediates
ChemG	German Chemicals Act
CMR	carcinogenic-mutagenic-toxic for reproduction
DIN	German Institute for Standardization
DMEL	Derived minimum effect level
DNEL	Derived no effect level
EINECS	European Inventory of Existing Commercial Chemical Substances
EC50	half maximal effective concentration
GefStoffV	German Ordinance on Hazardous Substances
GGVSEB	German ordinance for road, rail and inland waterway transportation of dangerous goods
GGVSee	German ordinance for sea transportation of dangerous goods
GLP	Good Laboratory Practice
GMO	Genetic Modified Organism
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
ISO	International Organization For Standardization
LOAEL	Lowest observed adverse effect level
LOEL	Lowest observed effect level
NOAEL	No observed adverse effect level
NOEC	no observed effect concentration
NOEL	no observed effect level
o. c.	open cup
OECD	Organisation for Economic Cooperation and Development
OEL	Occupational Exposure Limit
PBT	Persistent, bioaccumulative, toxic
PEC	Predicted effect concentration
PNEC	Predicted no effect concentration
REACH	REACH registration
RID	Convention concerning International Carriage by Rail
STOT	Specific Target Organ Toxicity
SVHC	Substances of Very High Concern
TA	Technical Instructions
TPR	Third Party Representative (Art. 4)
TRGS	Technical Rules for Hazardous Substances
VCI	German chemical industry association
vPvB	very persistent, very bioaccumulative
VOC	volatile organic compounds
VwVwS	German Administrative Regulation on the Classification of Substances Hazardous to Waters into Water Hazard Classes
WGK	Water Hazard Class
WHO	World Health Organization