

Safety Data Sheet
acc. to OSHA HCS

Printing date 09/28/2020

Reviewed on 06/03/2020

*** 1 Identification**

- **Product identifier**
- **Trade name:** HydroSeal® Catalyst
- **Article number:** 900-000-yyyU
- **Application of the substance / the mixture** Hardening agent/ Curing agent
- **Details of the supplier of the safety data sheet**
- **Supplier:**

American Hydrotech, Inc.
541 N. Fairbanks, Suite 2700
Chicago, Illinois 60611
USA
Tel.: (312) 337-4998
Fax: (312) 661-0731
Internet: www.hydrotechusa.com

- **Emergency telephone number:**
For Chemical Emergency
Spill Leak Fire Exposure or Accident
PERS #11540 - (800) 633-8253

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Org. Perox. D H242 Heating may cause a fire.



GHS07

Eye Irrit. 2A H319 Causes serious eye irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.

- **Label elements**

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS02 GHS07

- **Signal word** Danger

- **Hazard-determining components of labeling:**
dibenzoyl peroxide

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Hazard statements

- H242 Heating may cause a fire.
- H319 Causes serious eye irritation.
- H317 May cause an allergic skin reaction.

Precautionary statements

- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P234 Keep only in original container.
- P273 Avoid release to the environment.
- P280 Wear protective clothing/ eye protection.
- P370+P378 In case of fire: Use for extinction: CO₂, powder or water spray.
- P403+P235 Store in a well-ventilated place. Keep cool.

Classification system:
NFPA ratings (scale 0 - 4)


Health = 2
Fire = 3
Reactivity = 0

The substance possesses oxidizing properties.

HMIS-ratings (scale 0 - 4)

HEALTH	2
FIRE	3
REACTIVITY	0

Health = 2
Fire = 3
Reactivity = 0

Other hazards
Results of PBT and vPvB assessment

- PBT:** Does not meet the PBT-criteria of Annex XIII of REACH (self assessment).
- vPvB:** Does not meet the vPvB-criteria of Annex XIII of REACH (self assessment).

3 Composition/information on ingredients

Chemical characterization: Mixtures

- Description:** Mixture of the substances listed below with nonhazardous additions.

Dangerous components:

CAS: 94-36-0	dibenzoyl peroxide	25-50%
Index number: 617-008-00-0		

4 First-aid measures

Description of first aid measures
General information:

- Immediately remove any clothing soiled by the product.
- Take affected persons out of danger area and lay down.
- If symptoms or in all cases of doubt, see a doctor. Never give anything by mouth to an unconscious person. If unconscious, place in a stable lateral position and seek medical advice.

After inhalation:

- In case of unconsciousness place patient stably in side position for transportation.
- Take affected persons into fresh air and keep quiet.
- Seek medical treatment.

After skin contact:

- Immediately wash with water and soap and rinse thoroughly.
- If skin irritation continues, consult a doctor.
- Remove contaminated clothing immediately.

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- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:**
Rinse mouth with water (only if person is conscious).
Do not induce vomiting; immediately call for medical help.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed**
Irritant to skin, eyes and respiratory system.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, sand, extinguishing powder, foam.
Water spray
- **For safety reasons unsuitable extinguishing agents:**
Halone
Water with full jet
- **Special hazards arising from the substance or mixture**
In the case of decomposition without fire, there is a risk of explosion due to the resulting vapour-air mixture. Caution: reignition may occur. Decomposition under the influence of heat. Do not inhale in case of fire and/or explosion.
At the temperature of self-accelerating decomposition (+55 °C), the product undergoes explosive decomposition.
ATTENTION: Re-ignition possible; the product maintains combustion processes.
In Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.
In certain fire conditions, traces of other toxic gases cannot be excluded.
Carbon monoxide (CO)
CO₂
Benzoic acid, benzene
- **Advice for firefighters**
- **Protective equipment:**
Do not inhale explosion gases or combustion gases.
Wear fully protective suit.
Wear self-contained respiratory protective device.
- **Additional information**
Cool endangered receptacles with water spray.
Evacuate all non- essential persons. Extinguish a small fire with powder or carbon dioxide then apply water to prevent re-ignition.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Do not breathe dust.



Keep away from ignition sources

- Avoid static electricity.
- Cool case of further temperature with a jet of water from a safe distance.
- Use respiratory protective device against the effects of fumes/dust/aerosol.
- Wear protective equipment. Keep unprotected persons away.

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- **Environmental precautions:**
Do not allow to enter sewers/ surface or ground water.
Inform respective authorities in case of seepage into water course or sewage system.
- **Methods and material for containment and cleaning up:**
Do not flush with water or aqueous cleansing agents
Ensure adequate ventilation.
Send for recovery or disposal in suitable receptacles.
First of all dampened with water.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

· PAC-1:		
94-36-0	dibenzoyl peroxide	15 mg/m ³
7631-86-9	silicon dioxide, chemically prepared	18 mg/m ³
· PAC-2:		
94-36-0	dibenzoyl peroxide	1,200 mg/m ³
7631-86-9	silicon dioxide, chemically prepared	740 mg/m ³
· PAC-3:		
94-36-0	dibenzoyl peroxide	7,000 mg/m ³
7631-86-9	silicon dioxide, chemically prepared	4,500 mg/m ³

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Do not refill residue into storage receptacles.
Keep receptacles tightly sealed.
Store in cool, dry place in tightly closed receptacles.
Keep away from heat and direct sunlight.
Wear suitable respiratory protective device when decanting larger quantities without extractor facilities.
Restrict the quantity stored at the work place.
Handle with care. Avoid jolting, friction and impact.
Ensure good ventilation/exhaustion at the workplace.
at least 7-fold air changes per hour
- **Information about protection against explosions and fires:**
Highly volatile, flammable constituents are released during processing.
Keep ignition sources away - Do not smoke.
Use explosion-proof apparatus / fittings and spark-proof tools.
Dust can combine with air to form an explosive mixture.
Substance/product is oxidizing when dry.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store only in the original receptacle.
Use only receptacles specifically permitted for this substance/product.
Prevent any seepage into the ground.
Store in accordance with local and national regulations.
Store in a cool location.
- **Information about storage in one common storage facility:**
Organic peroxides shall not be parked or stored together with heavy metal compounds or amines or their preparations.

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- **Further information about storage conditions:**
 Store in cool, dry conditions in well sealed receptacles.
 Store receptacle in a well ventilated area.
 Protect from contamination.
 Store in a cool place.
 max. Storage temperature 30 ° C
 Keep contents moist.
 Keep receptacle tightly sealed.
- **Storage class:**
 Lagerklasse 5.2 "Organische Peroxide und selbstzersetzliche Gefahrstoffe" nach TRGS 510
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

94-36-0 dibenzoyl peroxide (25-50%)

PEL	Long-term value: 5 mg/m ³
REL	Long-term value: 5 mg/m ³
TLV	Long-term value: 5 mg/m ³

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
 Avoid contact with the eyes and skin.
 Immediately remove all soiled and contaminated clothing.
 Wash hands before breaks and at the end of work.
 Use skin protection cream for skin protection.
 Keep away from foodstuffs, beverages and feed.
 Avoid close or long term contact with the skin.
 Avoid contact with the eyes.
- **Breathing equipment:**
 In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
 Preventive skin protection by use of skin-protecting agents is recommended.
 After use of gloves apply skin-cleaning agents and skin cosmetics.
 Check protective gloves prior to each use for their proper condition.

- **Material of gloves**
 The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
 Protective gloves according to EN 374

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- **Penetration time of glove material**
Our Recommendation is mainly on a one-time use as a short-term protection Liquid splashes. For other applications, you should contact a glove manufacturer.
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:**
Neoprene gloves
Nitrile rubber, NBR
- **For the permanent contact gloves made of the following materials are suitable:** Butyl rubber, BR
- **Not suitable are gloves made of the following materials:** Leather gloves
- **Eye protection:**



Tightly sealed goggles

- **Body protection:**



Protective work clothing

9 Physical and chemical properties

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

- **General Information**

- **Appearance:**

Form: Powder

Color: White

- **Odor:** Weak, characteristic

- **Odor threshold:** not be determined.

- **pH-value at 20 °C (68 °F):** 7

- **Change in condition**

Melting point/Melting range: 58 °C (136.4 °F) (Dekompozycja)

Boiling point/Boiling range: Not applicable (decomposes)

- **Flash point:** Not applicable.

- **Flammability (solid, gaseous):** Decomposition products may be flammable.
May cause fire.

- **Decomposition temperature:** Decomposition temperature SADT - (Self Accelerating Decomposition Temperature) is the lowest temperature at which self accelerating decomposition may occur in the transport packaging. A dangerous self-accelerating decomposition reaction under unfavorable conditions, explosions or fire may be caused by thermal decomposition at or above the SADT. Contact with incompatible substances may also cause decomposition below the SADT.

Temperature of self-accelerating decomposition (SADT): 55 °C

- **Auto igniting:** Decomposition product(s) may be flammable.

- **Danger of explosion:** Product does not present an explosion hazard.

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· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Oxidizing properties	unavailable
· Vapor pressure:	Not applicable.
· Density:	Not determined.
· Bulk density:	640 kg/m ³
· Relative density	Not determined.
· Vapor density	Not applicable.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	log POW 3.2 at 22 °C (OECD 107)
· Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
· Solvent content:	
VOC content:	0.00 %
· Other information	A k t i v s a u e r s t o f f 3,24 - 3,47 %

10 Stability and reactivity

- **Reactivity** see Section 10.2
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
ADT - (Self-accelerating decomposition temperature) is the lowest temperature at which self-accelerating decomposition may occur in the transport packaging. A dangerous self-accelerating decomposition reaction, explosion or fire under unfavourable circumstances, may be caused by thermal decomposition at or above the temperature specified: 55 °C. Contact with incompatible substances may cause decomposition at or below the SADT 55 °C.
To avoid thermal decomposition do not overheat.
Shock, avoid friction, heat, sparks, static electricity.
- **Possibility of hazardous reactions**
Reacts with alkali, amines and strong acids.
Reacts with certain metals.
- **Conditions to avoid**
To maintain the quality under storage temperatures: 77 °F
Shock, avoid friction, heat, sparks, static electricity.
- **Incompatible materials:**
Avoid contact with rust, iron and copper. Hazardous decomposition on contact with incompatible materials such as acids, alkalis, heavy metals and reducing agents. Do not mix with peroxide accelerators. Only use stainless steel according to DIN 1.4571, PVC, polyethylene, or glass-lined equipment.
- **Hazardous decomposition products:**
In case of fire: see section 5.
SADT - (self-accelerating decomposition temperature) is the lowest temperature at which self-accelerating decomposition can occur in the transport packaging. A dangerous self-accelerating decomposition reaction under unfavorable circumstances, explosion or fire can be caused by thermal decomposition at or above the SADT. Contact with incompatible substances can cause decomposition at or below the SADT.

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· **Additional information:**

Emergency procedures will vary depending on individual circumstances. The customer should have a contingency plan to the workplace may be present.

11 Toxicological information

· **Information on toxicological effects** There were no toxicological findings to the mixture.

· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

ATE (Acute Toxicity Estimate)

Oral	LD50	>2,010 mg/kg
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94-36-0 dibenzoyl peroxide

Oral	LD50	>2,000 mg/kg (mouse)
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Inhalative	LC50	>24,300 mg/l (rat) (Staub)
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94-49-5 Ethylene dibenzoate

Oral	LD50	>2,000 mg/kg (rat) (OECD 423)
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	NOAEL	300 mg/kg (rat) (OECD 422)
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· **Primary irritant effect:**

· **on the skin:** Irritability

· **on the eye:** Irritating effect.

· **Sensitization:** Sensitization possible through skin contact.

· **Subacute to chronic toxicity:**

94-36-0 dibenzoyl peroxide

Oral	NOAEL	200 mg/kg/d (rat) adverse effect observed 500 mg/kg/d (unknown) Concentration at which no adverse effect was observed.
	NOAEL/29d	1,000 mg/kg/d (unknown) Concentration at which no adverse effect was observed.

· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

94-36-0	dibenzoyl peroxide	3
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7631-86-9	silicon dioxide, chemically prepared	3
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· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information

· **Toxicity**

94-49-5 Ethylene dibenzoate

EC50/3h (static)	>1,280 mg/l (activated sludge) (OECD 209)
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EC50/21d	1.4 mg/l (daphnia magna) (OECD 211)
EC10/21d (static)	0.79 mg/l (daphnia magna) (OECD 211)
· Aquatic toxicity:	
94-36-0 dibenzoyl peroxide	
EC50	35 mg/l (bacteria) (Atmungsinhibierungstest für Belebtschlamm) 0,5 h
EC50/48h	0.11 mg/l (daphnia magna) (OECD-Richtlinie 202)
LC50/96h	0.06 mg/l (fish)
NOEC/72h	0.02 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
EC50/72h	0.0711 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
NOEC	0.077 mg/l (daphnia magna) (OECD-Richtlinie 202) 48 h
	0.0316 mg/l (Rainbow trout) OECD 203 96 h
94-49-5 Ethylene dibenzoate	
LC50/96h (static)	>0.434 mg/l (Danio rerio) (Acute toxicity to fish)
ErC50/72h (static)	>0.87 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
NOEC/72h (static)	0.045 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
NOEC/21d (static)	0.65 mg/l (daphnia magna) (OECD 211)
NOEC (static)	0.073 mg/l (Danio rerio) (OECD 210)

· Persistence and degradability

Ethylene glycol dibenzoate
 Biodegradability: Type of test: Closed bottle test
 Biological degradation: 81 %
 Exposure time: 28 d
 Method: OECD test guideline 301D
 GLP: yes
 Easily biodegradable.

Dibenzoyl peroxide
 Biodegradability: Result: Potentially biodegradable

· Behavior in environmental systems:**· Bioaccumulative potential**

Dibenzoyl peroxide:
 Partition coefficient: n-octanol/water : log Pow: 3.2 (20 °C)

· Mobility in soil Dibenzoyl peroxide log Koc: 6310 (22 °C)**· Ecotoxicological effects:****· Remark:**

very toxic to aquatic organisms.
 Toxic for fish

· Additional ecological information:**· General notes:**

Water hazard class 2 (Self-assessment): hazardous for water
 Do not allow product to reach ground water, water course or sewage system.
 Danger to drinking water if even small quantities leak into the ground.
 Also poisonous for fish and plankton in water bodies.
 Toxic for aquatic organisms

· Results of PBT and vPvB assessment

- **PBT:** Does not meet the PBT-criteria of Annex XIII of REACH (self assessment).
- **vPvB:** Does not meet the vPvB-criteria of Annex XIII of REACH (self assessment).

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- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**

Hazardous waste according to Waste Catalogue (EWC). If recycling is not possible, waste must be in compliance with local regulations to be removed.

- **Recommendation:**



Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Must be specially treated adhering to official regulations.

- **Uncleaned packagings:**



- **Recommendation:**

Packaging must be emptied of all residues and must be disposed of properly in accordance with the statutory provisions.

Packaging that has not been completely emptied must be disposed of in coordination with the regional disposal company.

Disposal must be made according to official regulations.

14 Transport information

· UN-Number	UN3106
· DOT, ADR, IMDG, IATA	UN3106
· UN proper shipping name	Organic peroxide type D, solid
· DOT	3106 ORGANIC PEROXIDE TYPE D, SOLID (dibenzoyl peroxide)
· ADR	ORGANIC PEROXIDE TYPE D, SOLID (dibenzoyl peroxide), MARINE POLLUTANT
· IMDG	ORGANIC PEROXIDE TYPE D, SOLID (dibenzoyl peroxide)
· IATA	ORGANIC PEROXIDE TYPE D, SOLID (dibenzoyl peroxide)
· Transport hazard class(es)	
· DOT	
	
· Class	5.2 Organic peroxides
· Label	5.2
· ADR	
	
· Class	5.2 (P1) Organic peroxides

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· Label	5.2
· IMDG	
 	
· Class	5.2 Organic peroxides
· Label	5.2
· IATA	
	
· Class	5.2 Organic peroxides
· Label	5.2
· Packing group	
· DOT, ADR, IMDG, IATA	Void
· Environmental hazards:	
· Marine pollutant:	Yes
· Special marking (ADR):	Symbol (fish and tree) Symbol (fish and tree)
· Special precautions for user	Warning: Organic peroxides
· Hazard identification number (Kemler code):	539
· EMS Number:	F-J,S-R
· Stowage Category	D
· Stowage Code	SW1 Protected from sources of heat.
· Segregation Code	SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis. SG72 See 7.2.6.3.2.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· DOT	
· Remarks:	Classification according to viscosity clause [(173.120 (2) (d) and 173.121 (b) (iv)] Special marking with the symbol (fish and tree).
· ADR	
· Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
· IMDG	
· Limited quantities (LQ)	500 g
· Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
· UN "Model Regulation":	UN 3106 ORGANIC PEROXIDE TYPE D, SOLID (DIBENZOYL PEROXIDE), 5.2

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15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

· **Section 313 (Specific toxic chemical listings):**

94-36-0 | dibenzoyl peroxide

· **TSCA (Toxic Substances Control Act):**

All components have the value ACTIVE.

· **Hazardous Air Pollutants**

None of the ingredients is listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenicity categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**

94-36-0 | dibenzoyl peroxide

A4

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **National regulations:**

· **Information about limitation of use:**

Employment restrictions concerning young persons must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

* 16 Other information

These figures relate to the product as delivered.

Sector of Use

Relevant identified uses of the mixture

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU19 Building and construction work

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Uses advised against

SU21 Consumer uses: Private households / general public / consumers

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This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Training hints

Teaching about hazards and precautions to hand the operating instructions (Technical Rule 555). Instruction must take place before the start of employment and at least annually thereafter.

· Date of preparation / last revision 09/28/2020 / -**· Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Org. Perox. D: Organic peroxides – Type C/D

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Skin Sens. 1: Skin sensitisation – Category 1

· Sources

www.gestis.de

www.echa.eu

logkow.cisti.nrc.ca

· * Data compared to the previous version altered.