

acc. to 29 CFR 1910.1200 App D

## Cerakote DFL-200 Dry Film Lubricant

Version number: 2.0 Revision: 10/15/2025

#### **SECTION 1: Identification**

#### 1.1 Product identifier

Trade name

**Cerakote DFL-200 Dry Film Lubricant** 

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

Relevant identified uses

Professional use

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

NIC Industries, Inc 7050 6th St. White City Oregon 97503 United States

Telephone: 866-774-7628 e-mail: sds@nicindustries.com Website: www.nicindustries.com

#### 1.4 Emergency telephone number

Emergency information service

1-800-633-8253 (USA & Canada)

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#### **SECTION 2: Hazard(s) identification**

#### 2.1 Classification of the substance or mixture

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Hazard class and category code(s)

Classification acc. to GHS

Section	Hazard class	Category	Hazard class and cat- egory	Hazard state- ment
A.2	Skin corrosion/irritation	2	Skin Irrit. 2	H315
A.3	Serious eye damage/eye irritation	2	Eye Irrit. 2	H319
A.4S	Skin sensitization	1	Skin Sens. 1	H317
A.6	Carcinogenicity	2	Carc. 2	H351
B.6	Flammable liquid	4	Flam. Liq. 4	H227

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects
The product is combustible and can be ignited by potential ignition sources.

#### 2.2 Label elements

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)



acc. to 29 CFR 1910.1200 App D

## Cerakote DFL-200 Dry Film Lubricant

Version number: 2.0 Revision: 10/15/2025

- Signal word

WARNING

- Pictograms

GHS07, GHS08



- Hazard statements

H227 Combustible liquid. H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H351 Suspected of causing cancer.

- Precautionary statements

P201 Obtain special instructions before use.

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P272 Contaminated work clothing must not be allowed out of the workplace.

P280 Wear protective gloves/eye protection/face protection.

P302+P352 If on skin: Wash with plenty of water.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

P308+P313 If exposed or concerned: Get medical advice/attention.

P321 Specific treatment (see on this label).

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.

P363 Wash contaminated clothing before reuse.

P370+P378 In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish.

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P501 Dispose of contents/container to industrial combustion plant.

- Hazardous ingredients for labelling

p-Chlorobenzotrifluoride, Epoxy Resin 1

#### 2.3 Other hazards

Hazards not otherwise classified

Contains epoxy constituents. May produce an allergic reaction.

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of  $\geq$  0.1%.

**Endocrine disrupting properties** 

Does not contain an endocrine disruptor (ED) in a concentration of  $\geq$  0.1%.

#### **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Not relevant (mixture)

#### 3.2 Mixtures



acc. to 29 CFR 1910.1200 App D

## **Cerakote DFL-200 Dry Film Lubricant**

Version number: 2.0 Revision: 10/15/2025

#### Description of the mixture

Name of substance	Identifier	Wt%
p-Chlorobenzotrifluoride	CAS No 98-56-6	75 – < 90
Epoxy Resin 1	CAS No Trade Secret	5 – < 10
Epoxy Resin 2	CAS No Trade Secret	5 – < 10
Graphite	CAS No 7782-42-5	1-<5
diethylene glycol monobutyl ether	CAS No 112-34-5	0.1 - < 1

#### **Remarks**

\*\* Trade Secret: In accordance with OSHA Hazard Communication Standard 29 CFR 1910.1200(i) and in accordance with the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS), the specific identity and/or exact percentage (concentration) of the composition has been withheld as a "Trade Secret"

#### **SECTION 4: First-aid measures**

#### 4.1 Description of first-aid measures

#### General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

#### Following skin contact

Wash with plenty of soap and water.

#### Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

#### Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

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

Symptoms and effects are not known to date.

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

None.

#### **SECTION 5: Fire-fighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing media

Dry extinguishing powder, BC-powder, Carbon dioxide (CO2)

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

In case of insufficient ventilation and/or in use, may form flammable/explosive vapor-air mixture. Solvent vapors are heav-



acc. to 29 CFR 1910.1200 App D

# Cerakote DFL-200 Dry Film Lubricant

Version number: 2.0 Revision: 10/15/2025

ier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

#### Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO2)

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

#### **SECTION 6: Accidental release measures**

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

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

#### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

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

Advice on how to contain a spill

Covering of drains.

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder.

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

#### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

#### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Avoidance of ignition sources. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools.

Specific notes/details

Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapors are heavier than air, spread along floors and form explosive mixtures with air. Vapors may form explosive mixtures with air.

#### Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equip-



acc. to 29 CFR 1910.1200 App D

## Cerakote DFL-200 Dry Film Lubricant

Version number: 2.0 Revision: 10/15/2025

ment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

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

Managing of associated risks

- Explosive atmospheres
  - Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool. Protect from sunlight.
- Flammability hazards
  - Keep away from sources of ignition No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Protect from sunlight.
- Ventilation requirements
  - Use local and general ventilation. Ground/bond container and receiving equipment.

#### 7.3 Specific end use(s)

See section 16 for a general overview.

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of substance	ldentifi- er	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Ceiling-C [ppm]	Ceiling-C [mg/m³]	Nota- tion	Source
US	Diethylene glycol monobutyl ether	TLV®	10	67.5					iv	ACGIH® 2025
US	Graphite	REL		2.5 (10 h)					natural, r	NIOSH REL
US	Graphite	PEL (CA)		2.5					natural, r, dust	Cal/OSHA PEL
US	Graphite	PEL	529.5						partml, r, dust, natural	29 CFR 1910.100 0
US	Graphite	TLV®		2					r, ex- Graph- Fib	ACGIH® 2025
US	Graphite	REL							synthet- ic, appx- D	NIOSH REL
US	Graphite	PEL (CA)		10					synthet- ic, dust	Cal/OSHA PEL
US	Graphite	PEL		15					synthet- ic, dust	29 CFR 1910.100 0
US	Graphite	PEL (CA)		5					synthet- ic, r	Cal/OSHA PEL
US	Graphite	PEL		5					synthet- ic, r	29 CFR 1910.100 0



acc. to 29 CFR 1910.1200 App D

## Cerakote DFL-200 Dry Film Lubricant

Version number: 2.0 Revision: 10/15/2025

**Notation** 

appx-D see Appendix D - Substances with No Established RELs

Ceiling-C ceiling value is a limit value above which exposure should not occur

dust as dust

exGraphFib except graphite fibers iv inhalable fraction and vapor

natural natural partml particles/ml respirable fraction

STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (un-

less otherwise specified)

synthetic synthetic

TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-

weighted average (unless otherwise specified

#### 8.2 Exposure controls

Appropriate engineering controls

Exhaust ventilation. General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

Wear protective gloves.

- Other protection measures

Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

#### **SECTION 9: Physical and chemical properties**

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

#### **Appearance**

Physical state	Liquid
Color	Black
Particle	Not relevant (liquid)
Particle size	Not available
Odor	Characteristic

#### Other safety parameters



acc. to 29 CFR 1910.1200 App D

## **Cerakote DFL-200 Dry Film Lubricant**

Version number: 2.0 Revision: 10/15/2025

pH (value)	Not determined		
Melting point/freezing point	Not determined		
Initial boiling point and boiling range	>133.8 °C at 1 atm		
Flash point	39 °C		
Evaporation rate	Not determined		
Flammability (solid, gas)	Not relevant (fluid)		
Explosive limits	Not determined		
Vapor pressure	0.018 Pa at 25 °C		
Density	1.31 <sup>g</sup> / <sub>ml</sub>		
Vapor density	Not available		
Relative density	Not available		
Solubility(ies)	Not determined		

#### Partition coefficient

- n-octanol/water (log KOW)	Not available
Auto-ignition temperature	600 °C
Decomposition temperature	Not relevant
Viscosity	Not determined

- Kinematic viscosity	Not determined
Explosive properties	None
Oxidizing properties	None

There is no additional information

#### 9.2 Other information

Temperature class (USA, acc. to NEC 500)	T1 (maximum permissible surface temperature on the equipment: 450°C)
	450 C)

### **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

If heated:

Risk of ignition.

#### 10.2 Chemical stability



acc. to 29 CFR 1910.1200 App D

## Cerakote DFL-200 Dry Film Lubricant

Version number: 2.0 Revision: 10/15/2025

See below "Conditions to avoid".

#### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4 Conditions to avoid

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

Hints to prevent fire or explosion

Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

#### 10.5 Incompatible materials

Oxidizers. Alcohols.

#### 10.6 Hazardous decomposition products

Carbon dioxide, carbon monoxide, and silicon oxides may be produced from all coating formulations. Chlorine-containing gases, fluorine-containing gases may be produced in products containing p-chlorobenzotrifluoride. Hazardous combustion products: see section 5.

#### **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Acute toxicity

Shall not be classified as acutely toxic.

GHS of the United Nations, annex 4: May be harmful in contact with skin.

#### Acute toxicity estimate (ATE) of components

Name of substance	CAS No	Exposure route	ATE
p-Chlorobenzotrifluoride	98-56-6	Dermal	>3,300 <sup>mg</sup> / <sub>kg</sub>
Graphite	7782-42-5	Oral	>2,000 <sup>mg</sup> / <sub>kg</sub>

#### Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitization

May cause an allergic skin reaction.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Suspected of causing cancer.



acc. to 29 CFR 1910.1200 App D

## **Cerakote DFL-200 Dry Film Lubricant**

Version number: 2.0 Revision: 10/15/2025

IARC Monographs on	the Evaluation of Carcinogenic Risks to Humans
, wite monegraping on	cite Evaluation of carcinogenic rasks to marrians

Name of substance	Classification	Number
p-Chlorobenzotrifluoride	2B	

#### Legend

2B Possibly carcinogenic to humans

#### Reproductive toxicity

Shall not be classified as a reproductive toxicant.

#### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

#### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

#### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

#### **SECTION 12: Ecological information**

#### 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

#### 12.2 Persistence and degradability

Data are not available.

#### 12.3 Bioaccumulative potential

Data are not available.

#### 12.4 Mobility in soil

Data are not available.

#### 12.5 Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of  $\geq$  0.1%.

#### 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of  $\geq$  0.1%.

#### 12.7 Other adverse effects

Data are not available.

#### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### Product/packaging disposal

Do not empty into drains. Avoid release to the environment. Contact a licensed professional waste disposal service to dispose of this material and its packaging.

#### Waste treatment of containers/packages

Follow all local, state, and Federal disposal regulations.

#### Hazardous waste code(s)

The waste code(s) should be assigned in discussion between the user and the waste disposal company.



acc. to 29 CFR 1910.1200 App D

## Cerakote DFL-200 Dry Film Lubricant

Version number: 2.0 Revision: 10/15/2025

### **SECTION 14: Transport information**

**14.1 UN number** not subject to transport regulations

**14.2 UN proper shipping name** not relevant

**14.3 Transport hazard class(es)** none

**14.4 Packing group** not assigned

**14.5** Environmental hazards not assigned

14.6 Remarks

#### 14.7 Transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

#### 14.8 <u>Information for each of the UN Model Regulations</u>

Transport of dangerous goods by road or rail (49 CFR US DOT) - Additional information Not subject to transport regulations.

International Maritime Dangerous Goods Code (IMDG) - Additional information Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information Not subject to ICAO-IATA.

#### **Remarks**

Cerakote DFL-200 product does not need to be regulated for purposes of transportation due to the fact that the p-chlorobenzotrifluoride (CAS# 98-56-6) contained in the mixture does not sustain combustion. Per 49 CFR § 173.120(a)(3) of the hazardous materials regulations, liquids with a flash point greater than 35°C that do not sustain combustion according to ASTM D 4206 do not meet the definition of a Class 3 Flammable Liquid. Additionally, International Air Transport Association (IATA) Dangerous Goods Regulations section 3.3.1.3(a) states that liquids which do not sustain combustion "need not be considered as flammable" if the liquid has "passed a suitable test for combustibility" as prescribed by the UN Manual of Tests and Criteria, Part III, subsection 32.5.2. ASTM D 4206 standards are identical to the UN Manual standards; it is thus considered to be a suitable test for combustibility. For the aforementioned reasons, Cerakote DFL-200 is not considered regulated for purposes of transportation.

#### **SECTION 15: Regulatory information**

### 15.1 Safety, health and environmental regulations specific for the product in question

#### **National regulations (United States)**

Toxic Substance Control Act (TSCA)

All ingredients are listed

#### Superfund Amendment and Reauthorization Act (SARA TITLE III )

- The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)

 $Please\ contact\ sds@nic industries.com\ for\ more\ information.$ 

- Specific Toxic Chemical Listings (EPCRA Section 313) Please contact sds@nicindustries.com for more information.

#### Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

- List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4) Please contact sds@nicindustries.com for more information.

#### **Clean Air Act**



acc. to 29 CFR 1910.1200 App D

## **Cerakote DFL-200 Dry Film Lubricant**

Version number: 2.0 Revision: 10/15/2025

Please contact sds@nicindustries.com for more information.

#### **Right to Know Hazardous Substance List**

- Toxic or Hazardous Substance List (MA-TURA)

Name of substance	PBT / HHS / LHS	De Minimis Concentration Threshold
diethylene glycol monobutyl ether		1.0 %

- Hazardous Substances List (MN-ERTK)

Name of substance	References
Graphite	A, O

#### Legend

- A American Conference of Governmental Industrial Hygienists (ACGIH), "Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices for 1992-93", available from ACGIH
- O Occupational Safety and Health Administration (OSHA), Safety and Health Standards, Code of Federal Regulations, title 29, part 1910, subpart Z, "Toxic and Hazardous Substances, 1990." General information: Minnesota Department of Labor and Industry, Occupational Safety and Health Division
- Hazardous Substance List (NJ-RTK)

Name of substance	Classifications
diethylene glycol monobutyl ether	
Graphite	

- Hazardous Substance List (Chapter 323) (PA-RTK)

Name of substance	Classification
diethylene glycol monobutyl ether	Е
Graphite	

#### Legend

E Environmental hazard

- Hazardous Substance List (RI-RTK)

Name of substance	References
Graphite	Т

#### Legend

T Toxicity (ACGIH®)



acc. to 29 CFR 1910.1200 App D

## **Cerakote DFL-200 Dry Film Lubricant**

Version number: 2.0 Revision: 10/15/2025

## California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

Proposition 65 List of chemicals

Name of substance	Remarks	Type of the toxicity
p-Chlorobenzotrifluoride		cancer

#### **VOC** content

All Cerakote coatings are VOC compliant under the EPA and have low to no VOC content. To find out the VOC content of an individual coating please contact sds@nicindustries.com for more information.

#### 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

#### SECTION 16: Other information, including date of preparation or last revision

#### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations	
29 CFR 1910.1000	29 CFR 1910.1000, Tables Z-1, Z-2, Z-3 - Occupational Safety and Health Standards: Toxic and Hazardous Substances (permissible exposure limits)	
49 CFR US DOT	49 CFR U.S. Department of Transportation	
ACGIH®	American Conference of Governmental Industrial Hygienists	
ACGIH® 2025	From ACGIH®, 2025 TLVs® and BEIs® Book. Copyright 2025. Reprinted with permission. Information on the proper use of the TLVs® and BEIs®: http://www.acgih.org/tlv-bei-guidelines/policies-procedures-presentations/tlv-bei-position-statement	
ATE	Acute Toxicity Estimate	
Cal/OSHA PEL	California Division of Occupational Safety and Health (Cal/OSHA): Permissible Exposure Limits (PELs)	
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)	
Ceiling-C	Ceiling value	
DGR	Dangerous Goods Regulations (see IATA/DGR)	
ED	Endocrine disruptor	
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations	
HHS	Higher hazard substance	
IARC	International Agency for Research on Cancer	
IATA	International Air Transport Association	
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)	
ICAO	International Civil Aviation Organization	
IMDG	International Maritime Dangerous Goods Code	
LHS	Lower hazard substance	
NIOSH REL	National Institute for Occupational Safety and Health (NIOSH): Recommended Exposure Limits (RELs)	
OSHA	Occupational Safety and Health Administration (United States)	
PBT	Persistent, Bioaccumulative and Toxic	



acc. to 29 CFR 1910.1200 App D

# **Cerakote DFL-200 Dry Film Lubricant**

Version number: 2.0 Revision: 10/15/2025

Abbr.	Descriptions of used abbreviations
PEL	Permissible exposure limit
ppm	Parts per million
RTECS	Registry of Toxic Effects of Chemical Substances (database of NIOSH with toxicological information)
STEL	Short-term exposure limit
TLV®	Threshold Limit Values
TWA	Time-weighted average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

#### Key literature references and sources for data

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

Transport of dangerous goods by road or rail (49 CFR US DOT). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

#### **Classification procedure**

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H227	Combustible liquid.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H351	Suspected of causing cancer.