

acc. to 29 CFR 1910.1200 App D

PrintaFix

Version number: SDS 1.1 Date of compilation: 2022-02-07

- - SECTION 1: Identification - -

1.1 Product identifier

Trade name PrintaFix

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

Relevant identified uses. Buildplate Adhesive

1.3 Details of the supplier of the safety data sheet

AprintaPro GmbH Gutheil Schoder Gasse 17 1230 Wien Austria

Telephone: +43 1 997809410 e-mail: office@aprintapro.com Website: https://www.aprintapro.com

e-mail (competent person) office@aprintapro.com

1.4 Emergency telephone number

Emergency information service +43 1 997809410

This number is only available during the following office hours:

Mon-Fri 08:00 - 16:00

- - SECTION 2: Hazard(s) identification - -

2.1 Classification of the substance or mixture

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

Section	Hazard class	Category	Hazard class and category	Hazard statement
A.3	serious eye damage/eye irritation	2	Eye Irrit. 2	H319
A.6	carcinogenicity	1A	Carc. 1A	H350
B.6	flammable liquid	2	Flam. Liq. 2	H225

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)

- Signal word danger

- Pictograms

GHS02, GHS07, GHS08



- Hazard statements

H225 Highly flammable liquid and vapor. H319 Causes serious eye irritation.

H350 May cause cancer.

Page: 1 / 13



acc. to 29 CFR 1910.1200 App D

PrintaFix

Version number: SDS 1.1 Date of compilation: 2022-02-07

- Precautionary	statements
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P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P201 Obtain special instructions before use.

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

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.
P280 Wear protective gloves/eye protection/face protection.

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

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.
P337+P313 If eye irritation persists: Get medical advice/attention.

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 in accordance with local/regional/national/international regulations.

- Hazardous ingredients for labelling

Ethanol 99,9%

2.3 Other hazards

of no significance

- - SECTION 3: Composition/information on ingredients - -

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Description of the mixture

Name of subs	tance I	dentifier	Wt%	Classification acc. to GHS
Ethanol 99,	9% CAS No	64-17-5	≥ 90	Eye Irrit. 2 / H319 Carc. 1A / H350 Flam. Liq. 2 / H225

For full text of abbreviations: see SECTION 16.

- - 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. 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.



acc. to 29 CFR 1910.1200 App D

PrintaFix

Version number: SDS 1.1 Date of compilation: 2022-02-07

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

Water spray, BC-powder, Carbon dioxide (CO2)

Unsuitable extinguishing media

Water jet

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 heavier 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.

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.



acc. to 29 CFR 1910.1200 App D

PrintaFix

Version number: SDS 1.1 Date of compilation: 2022-02-07

- - 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.

Advice on general occupational hygiene

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

- Packaging compatibilities

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

7.3 Specific end use(s)

See section 16 for a general overview.

- - SECTION 8: Exposure controls/personal protection - -

8.1 Control parameters

Occupa	Occupational exposure limit values (Workplace Exposure Limits)										
Country	Name of agent	CAS No	Identifi- er	TWA [ppm]	TWA [mg/ m³]	STEL [ppm]	STEL [mg/m³]	Ceiling-C [ppm]	Ceiling-C [mg/m³]	Nota- tion	Source
US	ethanol	64-17-5	TLV®			1,000					ACGIH® 2021
US	ethyl alcohol	64-17-5	REL	1,000 (10 h)	1,900 (10 h)						NIOSH REL
US	ethyl alcohol (eth- anol)	64-17-5	PEL (CA)	1,000	1,900						Cal/ OSHA PEL
US	ethyl alcohol (eth- anol)	64-17-5	PEL	1,000	1,900						29 CFR 1910.10 00

Notation

Ceiling-C STEL

TWA

ceiling value is a limit value above which exposure should not occur

short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

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



acc. to 29 CFR 1910.1200 App D

PrintaFix

Version number: SDS 1.1 Date of compilation: 2022-02-07

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- Type of material

Nitrile

- Material thickness

≥0,35mm

- Breakthrough times of the glove material
 - >120 minutes (permeation: level 4)
- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. 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 stateliquidColortransparentParticlenot relevant (liquid)

Odor pungent

Other safety parameters

PH (value) 7 - 8 (in aqueous solution: $100 \% (^{W}/_{W})$)

Melting point/freezing point -97.8 °C

Boiling point or initial boiling point and boiling range $64.7\,^{\circ}$ C at 1,013 hPa Flash point $9.7\,^{\circ}$ C at 1,013 hPa Evaporation rate not determined Flammability not relevant, (fluid)

Lower and upper explosion limit

- Lower explosion limit (LEL)- Upper explosion limit (UEL)2.5 vol%13.5 vol%

Vapor pressure 169.3 hPa at 25 $^{\circ}$ C

Density $0.8 \, \mathrm{g}_{\mathrm{cm}^3}$

Vapor density this information is not available

Solubility(ies) not determined

Partition coefficient



acc. to 29 CFR 1910.1200 App D

PrintaFix

Version number: SDS 1.1 Date of compilation: 2022-02-07

- n-octanol/water (log KOW) this information is not available

Auto-ignition temperature 455 °C (auto-ignition temperature (liquids and gases))

Viscosity not determined

Explosive properties none
Oxidizing properties none

9.2 Other information

Temperature class (USA, acc. to NEC 500)

T1 (maximum permissible surface temperature on the equipment:

450°C)

- - SECTION 10: Stability and reactivity - -

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s). Risk of ignition.

If heated:

Risk of ignition

10.2 Chemical stability

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.

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

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. 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.

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Shall not be classified as a respiratory or skin sensitizer.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.



acc. to 29 CFR 1910.1200 App D

PrintaFix

Version number: SDS 1.1 Date of compilation: 2022-02-07

Carcinogenicity

May cause cancer.

Name of substance	CAS No	Classification	Number
Ethanol 99,9%	64-17-5	1	

Legend

1

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.

Biodegradation

The relevant substances of the mixture are readily biodegradable.

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

Data are not available.

12.6 Endocrine disrupting properties

None of the ingredients are listed.

12.7 Other adverse effects

Data are not available.

- - SECTION 13: Disposal considerations - -

13.1 Waste treatment methods

Waste treatment-relevant information

Solvent reclamation/regeneration.

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packages

Only packagings which are approved (e.g. acc. to DOT) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.



acc. to 29 CFR 1910.1200 App D

PrintaFix

Version number: SDS 1.1 Date of compilation: 2022-02-07

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

- - SECTION 14: Transport information - -

14.1	LIKI	mmah.au
14.1	UIN	number

 DOT
 UN 1170

 IMDG-Code
 UN 1170

 ICAO-TI
 UN 1170

14.2 UN proper shipping name

DOT Ethanol

IMDG-Code ETHANOL

ICAO-TI Ethanol

14.3 Transport hazard class(es)

DOT 3
IMDG-Code 3
ICAO-TI 3

14.4 Packing group

DOT II IMDG-Code II ICAO-TI II

14.5 Environmental hazards non-environmentally hazardous acc. to the dangerous goods reg-

ulations

14.6 Special precautions for user

There is no additional information.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

The cargo is not intended to be carried in bulk.

14.8 Information for each of the UN Model Regulations

Transport of dangerous goods by road or rail (49 CFR US DOT) - Additional information

Particulars in the shipper's declaration UN1170, Ethanol, 3, II

Danger label(s) 3



Special provisions (SP) 24, IB2, T4, TP1

ERG No 127

International Maritime Dangerous Goods Code (IMDG) - Additional information

Marine pollutant Danger label(s) 3



Special provisions (SP) 144

Excepted quantities (EQ) E2

Limited quantities (LQ) 1 L

EmS F-E, S-D

Stowage category A



acc. to 29 CFR 1910.1200 App D

PrintaFix

Version number: SDS 1.1 Date of compilation: 2022-02-07

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Danger label(s)



Special provisions (SP) A3, A58, A180

Excepted quantities (EQ) E2
Limited quantities (LQ) 1 L

- - 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) none of the ingredients are listed
- Specific Toxic Chemical Listings (EPCRA Section 313)
 none of the ingredients are listed

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

- List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)
 none of the ingredients are listed

Clean Air Act

none of the ingredients are listed

Right to Know Hazardous Substance List

- Cleaning Product Right to Know Act Substance List (CA-RTK) none of the ingredients are listed
- Toxic or Hazardous Substance List (MA-TURA) none of the ingredients are listed
- Hazardous Substances List (MN-ERTK)

Name of substance	CAS No	References	Remarks
Ethanol 99,9%	64-17-5	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	CAS No	Remarks	Classifications
Ethanol 99,9%	64-17-5		CA MU TE F3

Legend

CA Carcinogenic

F3 Flammable - Third Degree

MU Mutagenic TE Teratogenic



acc. to 29 CFR 1910.1200 App D

PrintaFix

Version number: SDS 1.1 Date of compilation: 2022-02-07

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

Name acc. to inventory	CAS No	Classification
ETHANOL	64-17-5	

- Hazardous Substance List (RI-RTK)

Name of substance	CAS No	References
Ethanol 99,9%	64-17-5	T, F

Legend

F Flammability (NFPA®)
T Toxicity (ACGIH®)

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

Proposition 65 List of chemicals						
Name acc. to inventory	CAS No	Remarks	Type of the toxicity			
ethanol (ethyl alcohol)	64-17-5	in alcoholic beverages	developmental			

Industry or sector specific available guidance(s)

NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.

Category	Rating	Description
Chronic	*	chronic (long-term) health effects may result from repeated overexposure
Health	2	temporary or minor injury may occur
Flammability	3	material that can be ignited under almost all ambient temperature conditions
Physical hazard	0	material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive
Personal protection	-	

NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

Category	Degree of haz- ard	Description
Flammability	3	material that can be ignited under almost all ambient temperature conditions
Health	0	material that, under emergency conditions, would offer no hazard beyond that of ordinary combustible material
Instability	0	material that is normally stable, even under fire conditions
Special hazard		



acc. to 29 CFR 1910.1200 App D

PrintaFix

Version number: SDS 1.1 Date of compilation: 2022-02-07

National inventories

Country	Inventory	Status
AU	AICS	all ingredients are listed
CA	DSL	all ingredients are listed
CN	IECSC	all ingredients are listed
EU	ECSI	all ingredients are listed
EU	REACH Reg.	all ingredients are listed
JP	CSCL-ENCS	all ingredients are listed
KR	KECI	all ingredients are listed
MX	INSQ	all ingredients are listed
NZ	NZIoC	all ingredients are listed
PH	PICCS	all ingredients are listed
TR	CICR	all ingredients are listed
TW	TCSI	all ingredients are listed
US	TSCA	all ingredients are listed

Legend

AICS CICR Australian Inventory of Chemical Substances

Chemical Inventory and Control Regulation
List of Existing and New Chemical Substances (CSCL-ENCS) CSCL-ENCS

DSL

ECSI IECSC

List of Existing and New Chemical Substances (CSCL-ENCS)

Domestic Substances List (DSL)

EC Substance Inventory (EINECS, ELINCS, NLP)

Inventory of Existing Chemical Substances Produced or Imported in China

National Inventory of Chemical Substances

Korea Existing Chemicals Inventory

New Zealand Inventory of Chemicals

Philippine Inventory of Chemicals and Chemical Substances (PICCS)

REACH registered substances

Taiwan Chemical Substance Inventory INSQ KECI NZIoC

PICCS REACH Reg.

Taiwan Chemical Substance Inventory
Toxic Substance Control Act **TCSI** TSCA

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® 2021	From ACGIH®, 2021 TLVs® and BEIs® Book. Copyright 2021. 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
Cal/OSHA PEL	California Division of Occupational Safety and Health (Cal/OSHA): Permissible Exposure Limits (PELs)
Carc.	Carcinogenicity
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)



acc. to 29 CFR 1910.1200 App D

PrintaFix

Version number: SDS 1.1 Date of compilation: 2022-02-07

Abbr.	Descriptions of used abbreviations
Ceiling-C	Ceiling value
DGR	Dangerous Goods Regulations (see IATA/DGR)
DOT	Department of Transportation (USA)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
ERG No	Emergency Response Guidebook - Number
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
Flam. Liq.	Flammable liquid
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
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
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NFPA®	National Fire Protection Association (United States)
NIOSH REL	National Institute for Occupational Safety and Health (NIOSH): Recommended Exposure Limits (RELs)
NLP	No-Longer Polymer
NPCA-HMIS® III	National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition
OSHA	Occupational Safety and Health Administration (United States)
PBT	Persistent, Bioaccumulative and Toxic
PEL	Permissible exposure limit
ppm	Parts per million
STEL	Short-term exposure limit
TLV®	Threshold Limit Values
TWA	Time-weighted average
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).



acc. to 29 CFR 1910.1200 App D

PrintaFix

Version number: SDS 1.1 Date of compilation: 2022-02-07

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
H225	Highly flammable liquid and vapor.
H319	Causes serious eye irritation.
H350	May cause cancer.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.