

BUTYL SEALANT

SECTION 1: SUBSTANCE/MIXTURE IDENTIFICATION AND MANUFACTURER/SUPPLIER IDENTIFICATION

1.1. Product identification

Product form: Mixture
Name: Butyl sealant
Trade name: Butyl sealant
UFI code: Not applicable

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

1.2.1. Relevant identified uses

Use of the substance/mixture: Solvent-based butyl sealant for structures, automotive bodywork and construction industries. For professional use as an adhesive/sealant Proc19 - Construction and structures.

1.2.2. Uses advised against
No further data available.

1.3 Data of the safety data sheet supplier

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1.4. Emergency telephone

+48 34 329 45 03 (8.00 - 15.00)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

The product is not classified as hazardous pursuant to the provisions set forth in EC 1272/2008 (CLP). However, since the product contains dangerous substances in concentrations that must be declared in section no. 3, it requires a safety data sheet with relevant information, in accordance with Regulation (EU) 2020/878.

Hazard classification and indication:
No further data available.

2.2. Label elements

Labelling pursuant to (EC) Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms (CLP):
No data.

Signal word:
No data.

Hazard statements (CLP):
EUH210 Safety data sheet available on request.

Precautionary statements (CLP):
No data.

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%. The product does not contain substances with endocrine disrupting properties in concentration \geq 0.1%.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable.

3.2. Mixtures

Name	Product identification	%	Classification according to the regulation (EC) no 1272/2008(CLP)
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	CAS number: - EC number: 919-857- 5 Index number: - REACH: 01-2119463258-33	$18 \leq x \leq 19,5$	Flam. Liq. 3, H226, Asp. Tox. 1, H304, STOT SE 3, H336, EUH066 (full text of H phrases: see section 16)
Benzene, C14-30 alkyl derivatives	CAS number: 68855-24-3 EC number: - Index number: - REACH-no: not applicable (polymer)	$8 \leq x \leq 9$	Aquatic Chronic 4 (full text of H phrases: see section 16)

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Eyes:

Remove contact lenses, if present. Wash immediately with plenty of water for at least approx. 5 min., opening the eyelids fully. If problem persists, seek medical advice.

Skin:

Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothes before using them again.

After inhalation:

Remove to open air. If the subject stops breathing, perform artificial respiration. Get medical advice/attention immediately.

Ingestion:

Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

4.2. Most important symptoms both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media: standard extinguishing media such as carbon dioxide, foam, powder and water spray.

Unsuitable extinguishing agents: None.

Do not use jets of water. Water is not effective to extinguish the fire, however it can be used to cool closed containers exposed to the flame preventing bursts and explosions.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE:

Do not breathe combustion products.

5.3. Advice for fire fighters

General information:

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous to health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

Special protective equipment for fire fighters

Normal firefighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit compressed air breathing apparatus (BS EN 137).

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency measures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.

These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and materials for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10.

Absorb the remainder with inert absorbent material. Make sure the leakage site is well aired.

Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7: HANDLING AND STORAGE OF SUBSTANCES AND MIXTURES

7.1. Precautions for safe handling

Keep away from heat, sparks and open flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic

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charges. Do not eat, drink or smoke when using the product. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store only in original container. Store in a cool and well-ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

Storage class TRGS 510 (Germany): 10.

7.3. Special end use (s)

No further data available.

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION MEASURES

8.1. Control parameters

Regulatory References:

CZE	Česká Republika	Nařízení vlády č. 41/2020 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů
DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
DNK	Danmark	Bekendtgørelse om grænseværdier for stoffer og materialer - BEK nr 1458 af 13/12/2019
ESP	España	Límites de exposición profesional para agentes químicos en España 2021
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
FIN	Suomi	HTP-VÄRDEN 2020. Koncentrationer som befunnits skadliga. SOCIAL - OCH HÄLSOVÅRDSMINISTERIETS PUBLIKATIONER 2020:25
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NOR	Norge	Forskrift om endring i forskrift om tiltaksverdier og grenseverdier for fysiske og kjemiske faktorer i arbeidsmiljøet samt smitterisikogrupper for biologiske faktorer (forskrift om tiltaks- og grenseverdier), 21. august 2018 nr. 1255
SWE	Sverige	Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden (AFS 2018:1)
GBR	United Kingdom TLV-ACGIH	EH40/2005 Workplace exposure limits (Fourth Edition 2020) ACGIH 2021

Soot:

Threshold Limit Value:

Type	Country	TWA/8h		STEL/15min.		Notes/Observations
		mg/m ³	ppm	mg/m ³	ppm	
TLV	CZE	2				
MAK	DEU	4				INHAL
MAK	DEU	1.5				RESP
VLA	ESP	3.5				
VLEP	FRA	3.5				INHAL
HTP	FIN	3.5		7		
VLEP	ITA	3				
TLV	NOR	3.5				
NGV/KGV	SWE	3				
WEL	GBR	3.5		7		INHAL

Diisonyl phthalate

Threshold Limit Value:

Type	Country	TWA/8h		STEL/15min.		Notes/Observations
		mg/m ³	ppm	mg/m ³	ppm	
TLV	DNK	3		6		
WEL	GBR	5				

Predicted no-effect concentration - PNEC

Normal value for the food chain (secondary poisoning)	150	mg/kg	
Normal value for the terrestrial compartment	30	mg/kg	

Health –Derived no effect level:

DNEL/DMEL:

Route of exposure	Effects on consumers		Effects on workers	
	Acute local	Chronic systemic	Acute local systemic	Chronic systemic
Systemic				
Oral		4.4 mg/kg bw/d		
After inhalation:		15.3 mg/m ³		51.72 mg/m ³
Skin		220 mg/kg bw/d		366 mg/kg bw/d

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Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics:

Threshold Limit Value:

Type	Country	TWA/8h		STEL/15min.		Notes/Observations
		мг/м3	ppm	мг/м3		
WEL	GBR	1200	197			
TLV-ACGIH		1200	197			

Health -Derived no effect level:

DNEL/DMEL:

Route of exposure	Effects on consumers		Effects on workers	
	Acute local	Chronic systemic	Acute local systemic	Chronic systemic
Oral		125 mg/kg bw/d		
After inhalation:		185 mg/m ³		871 mg/m ³
Skin		125 mg/kg bw/d		208 mg/kg bw/d

Legend:

(C) = CEILING,

INHAL= Inhalable fraction

RESP= Respirable fraction

THOR= Thoracic fraction

8.2. Exposure control

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice. Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Hands protection:

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

Skin protection:

Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

Eyes protection:

Wear airtight protective goggles (see standard EN 166).

Respiratory protection:

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required. Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

Environmental control

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	pasty
Colour	grey, black
Odour	solvent (petroleum)
Melting/freezing point	not applicable
Boiling point	> 145°C
Boiling range	145- 200 °C
Flammability	not applicable.
Bottom explosive limit	0.2 % (v/v)
Top explosive limit	7.0 % (v/v)
Flash point	> 65 °C
Auto-ignition temperature	> 200 °C
Decomposition temperature	not available
pH	not applicable, not soluble in water

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Kinematic viscosity	not applicable
Dynamic viscosity	29000 mPa*s
Solubility (in water)	soluble in organic solvents
n-octanol/water partition coefficient	not applicable
Vapour pressure	not applicable
Density and/or relative vapour density at 20°C	1.37 – 1.41 g/cm ³
Relative vapour density	not available
Particle characteristics	not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes
No further data available.

9.2.2. Other safety characteristics

Total solids (250°C / 482°F)	81.95 %
VOC (Directive 2010/75/EC)	18.05%- 252.70 g/litre

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

There are no particular risks of reaction with other substances under normal conditions of use.

10.2. Chemical stability

Stable under normal conditions of use and storage.

10.3. Possibility of hazardous reactions

Vapours may also form explosive mixtures with the air. Hydrocarbons.
Contact with strong oxidants (such as peroxides and chromates) may cause a fire. A mixture with nitrates or other strong oxidants (such as chlorates, perchlorates and liquid oxygen) may generate an explosive mass.

10.4. Conditions to be avoided

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

10.5. Incompatible materials

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics.
Keep away from oxidants.

10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

SECTION 11: TOXICOLOGICAL INFORMATION

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

11.1. Information on the hazard classes defined in Regulation (EC) No 1272/2008

Metabolism, toxicokinetics, mechanism of action and other information:
Information not available

Information on likely routes of exposure:
Information not available

Delayed and immediate effects and chronic effects from short and long-term exposure:
Information not available

Interaction effects:
Information not available

A. Acute toxicity:
ATE (Inhalation) of the mixture: Not classified (no significant component).
ATE (Oral) of the mixture: Not classified (no significant component).
ATE (Dermal) of the mixture: Not classified (no significant component).

Diisonyl phthalate:
LD50 (Dermal): > 3160 mg/kg (Rabbit- New Zealand white)
LD50 (Oral): > 10000 mg/kg (Rat - Sprague-Dawley)
LC50 (vapour inhalation): >4.4 mg/l (Rat - Sprague-Dawley)

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics:
LD50 (Dermal): > 5000 mg/kg (rabbit)
LD50 (Oral): > 5000 mg/kg (rat)
LC50 (vapour inhalation): >5 mg/l (Rat)

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Benzene, C14-30 alkyl derivatives:

LD50 (Dermal): > 7940 mg/kg (rabbit)

LD50 (Oral): > 15800 mg/kg (rat)

B. Skin corrosion/irritation:

Does not meet the classification criteria for this hazard class.

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics:

Slightly irritating to skin on prolonged exposure. Based on test data for materials of similar structure. Test(s) equivalent or similar to OECD Guideline 404.

C. Serious eye damage/eye irritation:

Does not meet the classification criteria for this hazard class.

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics:

May cause minor, short-time eye discomfort. Based on test data for materials of similar structure. Equivalent test(s) or similar to OECD 405 guidelines.

D. Allergic effect on airways or skin:

Does not meet the classification criteria for this hazard class.

E. Mutagenic effect on germ cells:

Does not meet the classification criteria for this hazard class.

F. Carcinogenicity:

Does not meet the classification criteria for this hazard class.

G. Reproduction toxicity:

Does not meet the classification criteria for this hazard class.

H. STOT- single exposure:

Does not meet the classification criteria for this hazard class.

I. STOT- repeated exposure:

Does not meet the classification criteria for this hazard class.

J. Aspiration hazard:

Does not meet the classification criteria for this hazard class.

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics:

May be fatal if swallowed and enters airways.

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

SECTION 12: ECOLOGICAL INFORMATION

Use this product in accordance with good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity

Diisonyl phtalate:

LC50: for Fish > 102 mg/l (Brachydanio Rerio)

LC50: for Crustacea > 74 mg/l (Daphnia magna)

EC50: for Algae / Aquatic Plants > 88 mg/l (Scenedesmus subspicatus)

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics:

LC50: for fish > 1000 mg/l/96 h (Oncorhynchus mykiss)

LC50: for Crustacean 1000 mg/l/ 48 h (Daphnia magna)

EC50: for Algae / Aquatic Plants > 1000 mg/l /72 h (Pseudokirchneriella subcapitata)

Chronic NOEC for Algae / Aquatic Plants > 100 mg/l/72 h - Pseudokirchneriella subcapitata)

Benzene, C14-30 alkyl derivatives:

LC50: for fish 10000 mg/l/96 h (Cyprinodon variegatus)

EC50: for Crustacea > 1000 mg/l/ 48 h (Daphnia magna)

12.2. Persistence and degradability

Diisonyl phtalate:

Solubility (in water): <0.1 mg/l

Rapidly degradable.

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics:

Rapidly degradable.

80% (28 d)- OECD 301 F

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Benzene, C14-30 alkyl derivatives:
Solubility (in water): 1 mg/l
NOT rapidly degradable.
58,8% (28 d) EOCd 301 F

12.3. Bioaccumulative potential

Diisonyl phthalate:
n-octanol/water partition coefficient: 9
BCF: >3

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics:
n-octanol/water partition coefficient: >4 estimated

Benzene, C14-30 alkyl derivatives:
n-octanol/water partition coefficient: 6.6
BCF: 1.096

12.4. Mobility in soil

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics:
Extremely volatile, it decomposes rapidly in the air. Separation into sediments and suspensions in sewage is not expected.

Diisonyl phthalate:
n-octanol/water partition coefficient: 6

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0.1%.

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. Other hazardous effects

Information not available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Reuse, when possible. Neat product residues should be considered special non-hazardous waste. Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Uncleaned packaging:
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

The correct disposal code (determined by the mode of waste generation) cannot be specified by the manufacturer in the case of products used in various sectors. Small quantities of product can be treated as MSW or industrial waste equivalent to MSW.
CER code (recommended): 08 04 10.

SECTION 14: TRANSPORT INFORMATION

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number or ID number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class (-es)

Not applicable.

14.4. Packaging group

Not applicable.

14.5. Environmental hazards

Not applicable.

14.6. Special precautions for users

Not applicable.

14.7. Sea transport in bulk in accordance with IMO instruments

Information not available.

SECTION 15: REGULATORY INFORMATION

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

15.1.1. EU Provisions

Seveso Category– Directive 2012/18/EU: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product:

Point: 40

Contained substances:

Point 75

Point 52 diisonyl phthalate (Reg.: 01-2119430798-28)

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors: Not applicable.

Substances in Candidate List (Art. 59 REACH): On the basis of available data, the product does not contain any SVHC in percentage \geq than 0.1%.

Substances subject to authorisation (Annex XIV REACH): None.

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012: None.

Substances subject to the Rotterdam Convention: None.

Substances subject to the Stockholm Convention: None.

Health control:

No data available.

German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017)

WGK 1: Low hazard to waters.

15.1.2. National regulations:

Other regulations:

- Material Safety Data Sheet EU format according to Commission Regulation (EU) 2020/878.
- Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC
- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
- ADR agreement - Annex to the Journal of Laws of April 26, 2019. Government Statement of February 18, 2019 on the entry into force of amendments to Annexes A and B to the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), done in Geneva on September 30, 1957. (Official Journal 2019, item 769).

15.2. Chemical safety assessment

Not performed.

SECTION 16: OTHER INFORMATION

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 3	Flammable liquids, cat. 3.
Asp. Tox. 1	Aspiration hazard, cat. 1.
STOT SE 3	Specific target organ toxicity – single exposure, cat. 3.
Aquatic Chronic 4	Hazardous to the aquatic environment, chronic toxicity, cat. 4.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways
H336	May cause drowsiness or dizziness.
H413	May cause long lasting harmful effects to aquatic life.
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH210	Safety data sheet available on request.

Legend:

ADR: European Agreement concerning the carriage of Dangerous goods by Road

ATE: Acute Toxicity Estimate

CAS: Chemical Abstract Service Number

CE50: Effective concentration (required to induce a 50% effect)

CE: Identifier in ESIS (European archive of existing substances)

CLP: Regulation (EC) 1272/2008

DNEL: Derived No Effect Level

EmS: Emergency Schedule

GHS: Globally Harmonized System of classification and labelling of chemicals

IATA DGR: International Air Transport Association Dangerous Goods Regulation

IC50: Immobilization Concentration 50%

IMDG: International Maritime Code for dangerous goods

IMO: International Maritime Organization

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INDEX: Identifier in Annex VI of CLP
LC50: Lethal Concentration 50%
LD50: Lethal dose 50%
OEL: Occupational Exposure Level
PBT: Persistent bioaccumulative and toxic as REACH Regulation
PEC: Predicted environmental Concentration
PEL: Predicted exposure level
PNEC: Predicted no effect concentration
REACH: Regulation (EC) 1907/2006
RID: Regulation concerning the international transport of dangerous goods by train
TLV: Threshold Limit Value
TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
TWA: Time-weighted average exposure limit
TWA STEL: Short-term exposure limit
VOC: Volatile organic Compounds
vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY:

- Regulation (EC) 1907/2006 (REACH) of the European Parliament
- Regulation (EC) 1272/2008 (CLP) of the European Parliament
- Regulation (EU) 2020/878 (II Annex of REACH Regulation)
- Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
- Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- Regulation (UE) 605/2014 (VI Atp. CLP) of the European Parliament
- Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- Regulation (EU) 2016/1179 (IX Atp. CLP)
- Regulation (EU) 2017/776 (X Atp. CLP)
- Regulation (EU) 2018/669 (XI Atp. CLP)
- Regulation (EU) 2019/521 (XII Atp. CLP)
- Delegated Regulation (EU) 2018/1480 (XIII Atp. CLP)
- Regulation (EU) 2019/1148
- Delegated Regulation (EU) 2020/217 (XIV Atp. CLP)
- Regulation (EU) 2020/1182 (XV Atp. CLP)
- Regulation (EU) 2021/643 (XVI Atp. CLP)
- Delegated Regulation (EU) 2021/849 (XVII Atp. CLP)
- Delegated Regulation (EU) 2022/692 (XVIII Atp. CLP)
- Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Changes in the Sheet:

Not applicable.

Sheet number: 08- 114T-0223-V1

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. The information provided is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. Therefore, they should not be understood as a guarantee of any specific product properties.

Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION:

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.