according to Regulation (EC) No 1907/2006

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#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

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

#### Use of the substance/mixture

Surface coating

#### Uses advised against

May not be used for the treatment of medical products, surgical instruments, food, touch displays, children's toys, baby or hygiene items that come into contact with the mucous membrane.

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

Company name: DYPHOX GmbH
Street: Am Biopark 11
Place: 93053 Regensburg
Telephone: +49 (0)941 788 367 0
E-mail (Contact person): cps@dyphox.com
Internet: www.dyphox.com

**1.4. Emergency telephone** NPIC emergency telephone number:

number: 01 8092166

Daily from 8 am - 10 pm

# **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

# Regulation (EC) No 1272/2008

Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336

Full text of hazard statements: see SECTION 16.

# 2.2. Label elements

#### Regulation (EC) No 1272/2008

#### Hazard components for labelling

propan-2-ol; isopropyl alcohol; isopropanol

Signal word: Danger

Pictograms:





#### **Hazard statements**

H225 Highly flammable liquid and vapour.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.

# **Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

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P233 Keep container tightly closed. P261 Do not breathe mist/vapours/spray.

P280 Wear protective gloves and eye/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

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

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

P501 Dispose of waste according to applicable legislation.

# Special labelling of certain mixtures

Read attached instructions before use.

#### 2.3. Other hazards

No information available.

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

#### 3.2. Mixtures

#### **Hazardous components**

CAS No	Chemical name				
	EC No	Index No	REACH No		
	Classification (Regulation (EC) No	1272/2008)	•		
67-63-0	propan-2-ol; isopropyl alcohol; iso	propanol		70 - < 90 %	
	200-661-7	603-117-00-0			
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336				
64-17-5	ethanol; ethyl alcohol				
	200-578-6	603-002-00-5			
	Flam. Liq. 2, Eye Irrit. 2; H225 H3	19			
67-56-1	methanol				
	200-659-6	603-001-00-X			
	Flam. Liq. 2, Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, STOT SE 1; H225 H331 H311 H301 H370				

Full text of H and EUH statements: see section 16.

# Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. I	Limits, M-factors and ATE	
64-17-5	200-578-6	ethanol; ethyl alcohol	5 - < 10 %
	inhalation: LC5	0 = 95,6 mg/l (vapours); oral: LD50 = 6200 mg/kg	
67-56-1	200-659-6	methanol	1 - < 3 %
	I	= 3 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); dermal: ATE = : ATE = 100 mg/kg	

# **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

#### **General information**

Revision No: 1,1,0 - Replaces version: 1,0

When in doubt or if symptoms are observed, get medical advice.

Provide fresh air. In case of accident or unwellness, seek medical advice immediately (show directions for use

IRL - en

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or safety data sheet if possible).

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.

#### After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. Remove contact lenses, if present and easy to do. Continue rinsing.

# After ingestion

Rinse mouth immediately and drink 1 glass of of water. Do NOT induce vomiting. Call a doctor.

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

Dizziness

drowsiness

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

Treat symptomatically.

#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

# Suitable extinguishing media

Water spray jet, Carbon dioxide (CO2), Foam, Extinguishing powder.

# Unsuitable extinguishing media

Full water jet

# 5.2. Special hazards arising from the substance or mixture

Highly flammable. Vapours can form explosive mixtures with air.

#### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

#### Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

# **SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

#### General advice

Ventilate affected area. Do not breathe gas/fumes/vapour/spray.

Remove all sources of ignition. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

# 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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

#### For cleaning up

Small amounts of spillages: Wipe up with absorbent material (eg. cloth, fleece). Materials soiled with product such as cleaning rags, tissues and protective clothing, may ignite spontaneously a few hours later. Do not put any product-impregnated cleaning rags into your trouser pockets.

#### Handling larger quantities:

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

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Treat the recovered material as prescribed in the section on waste disposal.

#### 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

#### Advice on safe handling

Provide adequate ventilation. If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe mist/vapours/spray.

#### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop. Uncleaned empty containers may contain product gases which form explosive mixtures with air.

### Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.

# 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from: Frost

#### Hints on joint storage

Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances.

#### Further information on storage conditions

Protect from direct sunlight.

#### 7.3. Specific end use(s)

Surface coating

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

# 8.1. Control parameters

# Occupational exposure limits

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
64-17-5	Ethanol	1000	-		STEL (15 min)	
67-63-0	Isopropyl alcohol	200	-		TWA (8 h)	
		400	-		STEL (15 min)	
67-56-1	Methanol	200	260		TWA (8 h)	

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#### **Biological limit values**

CAS No	Substance	Parameter	Value	Test material	Sampling time
67-63-0	2-Propanol	Acetone	40 mg/L	I -	End of shift at end of workweek
67-56-1	Methanol	Methanol	15 mg/L	Urine	End of shift

#### 8.2. Exposure controls









# Appropriate engineering controls

Provide adequate ventilation. If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe mist/vapours/spray.

#### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Suitable eye protection: goggles.

#### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. Recommendation: Butyl caoutchouc (butyl rubber); Thickness of the glove material: > 0,4 mm. Breakthrough time: > 480 min. 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.

# Skin protection

Use of protective clothing.

# Respiratory protection

In case of inadequate ventilation wear respiratory protection.

#### Thermal hazards

Flame-retardant protective clothing. Wear anti-static footwear and clothing

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

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

Physical state: Liquid
Colour: pale yellow
Odour: like: Solvents

Melting point/freezing point:

Boiling point or initial boiling point and

ca. 82 °C

boiling range:

Flammability:

Lower explosion limits:

Upper explosion limits:

not determined

Upper explosion limits:

not determined

Flash point:

Auto-ignition temperature:

Decomposition temperature:

pH-Value (at 20 °C):

not determined

5,5 (1:10 dilution)

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Water solubility: completely miscible

Solubility in other solvents

not determined

Partition coefficient n-octanol/water: not determined Vapour pressure: 60 hPa

(at 20 °C)

Density (at 20 °C):

Bulk density:

Relative vapour density:

Particle characteristics:

0,817 g/cm³

not applicable

not determined

No information available.

#### 9.2. Other information

### Information with regard to physical hazard classes

Explosive properties

Vapours can form explosive mixtures with air.

Oxidizing properties

The product is not: oxidising.

#### Other safety characteristics

Evaporation rate: not determined Solvent content:  $\sim 90 \%$  Solid content: 4,83 %

# **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

Highly flammable.

#### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

# 10.3. Possibility of hazardous reactions

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop. Uncleaned empty containers may contain product gases which form explosive mixtures with air.

# 10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Protect from sunlight. Do no expose to temperatures exceeding 50 °C.

#### 10.5. Incompatible materials

Incompatible materials: Oxidizing agent

# 10.6. Hazardous decomposition products

No known hazardous decomposition products.

# **SECTION 11: Toxicological information**

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

# **Acute toxicity**

Based on available data, the classification criteria are not met.

# ATEmix calculated

ATE (oral) 6657 mg/kg; ATE (dermal) 19972 mg/kg; ATE (inhalation vapour) 199,7 mg/l; ATE (inhalation dust/mist) 33,29 mg/l

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CAS No	Chemical name						
	Exposure route	Dose		Species	Source	Method	
64-17-5	ethanol; ethyl alcohol						
	oral	LD50 mg/kg	6200	Rat	IUCLID		
	inhalation (4 h) vapour	LC50	95,6 mg/l	Rat	RTECS		
67-56-1	methanol						
	oral	ATE mg/kg	100				
	dermal	ATE mg/kg	300				
	inhalation vapour	ATE	3 mg/l				
	inhalation dust/mist	ATE	0,5 mg/l				

# Irritation and corrosivity

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

#### Sensitising effects

Based on available data, the classification criteria are not met.

# Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

#### STOT-single exposure

May cause drowsiness or dizziness. (propan-2-ol; isopropyl alcohol; isopropanol)

# STOT-repeated exposure

Based on available data, the classification criteria are not met.

# **Aspiration hazard**

Based on available data, the classification criteria are not met.

#### 11.2. Information on other hazards

# **Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

# **Further information**

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name						
	Aquatic toxicity	quatic toxicity Dose [h]   [d] Species Source Method					
64-17-5	ethanol; ethyl alcohol						
	Acute crustacea toxicity	EC50 9268 - 14221 mg/l	48 h	Daphnia magna	IUCLID		

# 12.2. Persistence and degradability

The product has not been tested.

#### 12.3. Bioaccumulative potential

according to Regulation (EC) No 1907/2006

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The product has not been tested.

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
64-17-5	ethanol; ethyl alcohol	-0,31

#### 12.4. Mobility in soil

The product has not been tested.

#### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

The product has not been tested.

# 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

#### 12.7. Other adverse effects

No information available.

#### **Further information**

Avoid release to the environment.

# **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

# **Disposal recommendations**

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. The waste key according to the European Waste Catalogue (EWC number) refers to the real wastes origin and therefore is not product- but use-oriented. The waste code has to be identified in agreement with the disposal company or the competent authority.

# List of Wastes Code - residues/unused products

080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF

COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish

containing organic solvents or other hazardous substances; hazardous waste

#### List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND

PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by

hazardous substances; hazardous waste

# Contaminated packaging

Wash with plenty of water. Completely emptied packages can be recycled.

# **SECTION 14: Transport information**

# Land transport (ADR/RID)

**14.1. UN number or ID number:** UN 1987

**14.2. UN proper shipping name:** ALCOHOLS, N.O.S.

14.3. Transport hazard class(es): 3
14.4. Packing group: II
Hazard label: 3

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Classification code: F1

Special Provisions: 274 601 640D

Limited quantity: 1 L
Excepted quantity: E2
Transport category: 2
Hazard No: 33
Tunnel restriction code: D/E

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 1987

14.2. UN proper shipping name: ALCOHOLS, N.O.S.

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



Classification code: F1

Special Provisions: 274 601 640D

Limited quantity: 1 L
Excepted quantity: E2

Marine transport (IMDG)

14.1. UN number or ID number: UN 1987

**14.2. UN proper shipping name:** ALKOHOLE, N.A.G.

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



Special Provisions: 274

Limited quantity: 1 L

Excepted quantity: E2

EmS: F-E, S-D

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 1987

14.2. UN proper shipping name: ALKOHOLE, N.A.G.

 14.3. Transport hazard class(es):
 3

 14.4. Packing group:
 II

 Hazard label:
 3



Special Provisions: A3 A180
Limited quantity Passenger: 1 L

according to Regulation (EC) No 1907/2006

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#### **DYPHOX Universal 510-R** Revision date: 06.06.2023 Page 10 of 12 Passenger LQ: Y341 F2 Excepted quantity: 353 IATA-packing instructions - Passenger: IATA-max. quantity - Passenger: 5 L IATA-packing instructions - Cargo: 364 IATA-max. quantity - Cargo: 60 I 14.5. Environmental hazards **ENVIRONMENTALLY HAZARDOUS:** Nο

# 14.6. Special precautions for user

Warning: Combustible liquid.

#### 14.7. Maritime transport in bulk according to IMO instruments

No dangerous good in sense of this transport regulation.

# **SECTION 15: Regulatory information**

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

#### **EU** regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 75

2010/75/EU (VOC): 88,5 % (725,5 g/l)

2004/42/EC (VOC): 88,5 %

Information according to 2012/18/EU P5c FLAMMABLE LIQUIDS

(SEVESO III):

#### Additional information

Directive 2008/98/EC (Waste Framework Directive); Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive] Directive 2004/42/EC on the limitation of emissions of volatile organic compounds; Guideline 75/324/EEC (aerosols); Regulation (EC) No. 1907/2006 (REACH) Regulation (EC) No. 1272/2008 [CLP] Aerosol Directive (75/324/)

# **National regulatory information**

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile

work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or

nursing mothers.

Water hazard class (D): 1 - slightly hazardous to water

# 15.2. Chemical safety assessment

For this substance a chemical safety assessment is not required.

# **SECTION 16: Other information**

#### Changes

This data sheet contains changes from the previous version in section(s): 6,7,8,11.

#### Abbreviations and acronyms

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

**UN: United Nations** 

CAS: Chemical Abstracts Service DNEL: Derived No Effect Level

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DMEL: Derived Minimal Effect Level PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate LC50: Lethal concentration, 50% LD50: Lethal dose, 50%

LD50: Lethal dose, 50% LL50: Lethal loading, 50% EL50: Effect loading, 50%

EC50: Effective Concentration 50%

ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration

BCF: Bio-concentration factor

PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very bioaccumulative

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Regulations concerning the international carriage of dangerous goods by rail MARPOL: International Convention for the Prevention of Marine Pollution from Ships

IBC: Intermediate Bulk Container SVHC: Substance of Very High Concern

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)

IMDG: International Maritime Code for Dangerous Goods

EmS: Emergency Schedules MFAG: Medical First Aid Guide

IATA: International Air Transport Association ICAO: International Civil Aviation Organization

VOC: Volatile Organic Compounds

# Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Flam. Liq. 2; H225	On basis of test data
Eye Irrit. 2; H319	Calculation method
STOT SE 3; H336	Calculation method

#### Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H336	May cause drowsiness or dizziness.

H370 Causes damage to organs.

#### **Further Information**

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indicated. Users' attention is also drawn to the following risks which may arise if a product is used for purposes other than those for which it is intended. This does not in any way relieve the user of the obligation to know and apply all the legislation applicable to his activity. We shall not be held liable for any damage (both material and immaterial, direct and indirect) resulting from the following causes, which are the consequence of use not in accordance with the instructions for use and the recommendations in the safety data sheet. In addition, the SDS is provided to convey health and safety information. If you are the official importer of this product, you are responsible for all legal requirements, including, but not limited to, product registration/notification, substance quantity tracking and possible substance registration. https://dyphox.com Tel. +49 (0)941 788 367-0, Email: cps@dyphox.com

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)