

Created on: 01.04.2020

CoronaXX handrub solution according to WHO formulation 1 (80 % Ethanol)

Revised on: 01.04.2020

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name: CoronaXX handrub solution according to WHO formulation 1 (80 % Ethanol)

Article number: 8000

CAS-No.: 7722-84-1

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

Application of the substance / the mixture:

Use as laboratory reagent.

1.3. Details of the supplier of the safety data sheet

Manufacturer/Supplier:

neoFroxx GmbH

Marie-Curie-Str. 3

D-64683 Einhausen

info@neofroxx.com

Further information obtainable from:

Dep. Quality Control

1.4. Emergency telephone number

+49 (6251) 989 24 - 0 (during normal business hours)

2. Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008:

Hazard categories:

Flammable liquid: Flam. Liq. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Hazard Statements:

Highly flammable liquid and vapour.

Causes serious eye irritation.

2.2. Label elements

Regulation (EC) No. 1272/2008

Signal word: Danger

Pictograms:



H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

Hazard statements

P102 Keep out of reach of children.

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

P233 Keep container tightly closed.

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P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P301+P310 If swallowed: Immediately call a POISON CENTER

P501 Dispose of contents/container according to the regulations

2.3. Other hazards

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

3. Composition / information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Hazardous components:

CAS No :

64-17-5

Chemical name (Quantity):

ethanol, ethyl alcohol (80 - < 85 %)

EC No:

200-578-6

Index No:

603-002-00-5

REACH No:

01-2119457610-43-XXXX

GHS Classification:

Flam. Liq. 2, Eye Irrit. 2; H225 H319

CAS No :

7722-84-1

Chemical name (Quantity):

Hydrogen peroxide ($\geq 0,10\%$ - $< 0,15\%$)

REACH No:

01-2119485845-22-XXXX

GHS Classification:

Oxidation H271, H302, H332, H314, H335, H412

CAS No :

56-81-5

Chemical name (Quantity):

Glycerin ($\geq 1\%$ - $< 4\%$)

GHS Classification:

No dangerous substance

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

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Further Information:

Product does not contain listed SVHC substances > 0,1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH)

4. First aid measures

4.1. Description of first aid measures

General information:

Provide fresh air. In case of respiratory tract irritation, consult a physician.

After inhalation:

Provide fresh air. In case of respiratory tract irritation, consult a physician.

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. Rinse immediately carefully and thoroughly with eye-bath or water. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion:

Rinse mouth thoroughly with water. Immediately call a POISON CENTER/doctor/. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting.

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

No information available.

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

Treat symptomatically. Treat symptomatically.

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water spray jet, Carbon dioxide (CO₂), Foam, Extinguishing powder. Water spray. alcohol resistant foam. dry extinguishing powder.

Unsuitable extinguishing media:

High power water jet.

5.2. Special hazards arising from the substance or mixture

Highly flammable. Vapours can form explosive mixtures with air. Can be released in case of fire: Carbon monoxide (CO). Carbon dioxide (CO₂).

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. 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. Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

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6. Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures
Remove all sources of ignition. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment. Provide adequate ventilation.
Wear personal protection equipment. (See section 8.)
- 6.2. Environmental precautions
Do not allow uncontrolled discharge of product into the environment. Explosion risk. Do not allow to enter into surface water or drains.
Discharge into the environment must be avoided.
- 6.3. Methods and material for containment and cleaning up
Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
Treat the recovered material as prescribed in the section on waste disposal. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
Treat the recovered material as prescribed in the section on waste disposal.
Clear contaminated areas thoroughly.
- 6.4. Reference to other sections
Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13 See protective measures under point 7 and 8.

7. Handling and storage

- 7.1. Precautions for safe handling
Advice on safe handling:
Wear suitable protective clothing. (See section 8.)
Use extractor hood (laboratory).
Advice on protection against fire and explosion:
Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.
Further information on handling:
Flammable vapours can accumulate in head space of closed systems.
- 7.2. Conditions for safe storage, including any incompatibilities
Requirements for storage rooms and vessels:
Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep locked up. Keep container tightly closed and in a well-ventilated place. Protect from sunlight.
Hints on joint storage:
Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances. Do not store together with: Oxidizing substances. Alkali metals. Food and fodder
Further information on storage conditions:
Store small packages in a suitable, robust cabinet.
- 7.3. Specific end use(s)
No information available.

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8. Exposure controls / personal protection

Exposure limits (EH40):

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL
56-81-5	Glycerol, mist	-	10		TWA (8 h)	WEL
7722-84-1	Hydrogen peroxide	1	1.4		TWA (8 h)	WEL
		2	2.8		STEL (15 min)	WEL'

DNEL/DMEL values:

CAS No Substance

64-17-5 ethanol, ethyl alcohol

DNEL type	Exposure route	Effect	Value
Worker DNEL, acute	inhalation	local	1900 mg/m ³
Worker DNEL, long-term	dermal	systemic	343 mg/kg bw/day
Worker DNEL, long-term	inhalation	systemic	950 mg/m ³
Consumer DNEL, acute	inhalation	local	950 mg/m ³
Consumer DNEL, long-term	dermal	systemic	206 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	114 mg/m ³
Consumer DNEL, long-term	oral	systemic	87 mg/kg bw/day

PNEC values:

CAS No Substance

64-17-5 ethanol, ethyl alcohol

Environmental compartment	Value
Freshwater	0,96 mg/l
Freshwater (intermittent releases)	2,75 mg/l
Marine water	0,79 mg/l
Marine water (intermittent releases)	2,75 mg/l
Freshwater sediment	3,6 mg/kg
Marine sediment	2,9 mg/kg
Secondary poisoning	0,72 mg/kg
Micro-organisms in sewage treatment plants (STP)	580 mg/l
Soil	0,63 mg/kg

8.1. Exposure controls

Appropriate engineering controls:

Use extractor hood (laboratory). Additional information: refer to chapter 7. No further action is necessary.

Protective and hygiene measures:

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. Always close containers tightly after the removal of product. When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work.

Eye/face protection:

Suitable eye protection: goggles. Suitable eye protection: Tightly sealed safety glasses. DIN EN 166

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. For special

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purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Pull-over gloves of rubber. EN ISO 374

Suitable material: Butyl rubber.

(penetration time (maximum wearing period): ≥ 8 h):

Before using check leak tightness / impermeability. In the case of wanting to use the gloves again, clean them before taking off and air them well.

Skin protection:

Flame-retardant protective clothing. Wear anti-static footwear and clothing . . Suitable protective clothing: Lab apron.

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Respiratory protection necessary at:

Generation/formation of aerosols.

exceeding exposure limit values.

Suitable respiratory protective equipment: gas filtering equipment (EN 141). Typ: A

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: liquid

Colour: colourless

Odour: characteristic

pH-Value: not determined

Changes in the physical state:

Melting point: not determined

Initial boiling point and boiling range: 81 °C

Flash point: 12 °C

Flammability:

Solid: not applicable

Gas: not applicable

Explosive properties:

The product is not: Explosive. In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

Lower explosion limits: 2,0 vol. %

Upper explosion limits: 13,4 vol. %

Ignition temperature: 425 °C

Auto-ignition temperature:

Solid: not applicable

Gas: not applicable

Decomposition temperature: not determined

Oxidizing properties:

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

Vapour pressure: 48 hPa (at 20 °C)

Density (at 20 °C): 0,785 g/cm³

Water solubility: easily soluble

Solubility in other solvents: None

Partition coefficient: not determined

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Viscosity / dynamic: (at 20 °C) 2,43 mPa·s

Vapour density: not determined

Evaporation rate: not determined

Solvent content: 99,00 %

9.2. Other information

Solid content: not determined

No information available.

10. Stability and reactivity

10.1. Reactivity

Highly flammable. No information available.

10.2. Chemical stability

Stable under normal storage and handling conditions.

10.3. Possibility of hazardous reactions

No information available.

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. In case of warming: Ignition hazard. Vapours can travel considerable distances to a source of ignition where they can ignite, flash back, or explode. Vapours of flammable solvents can accumulate in the gas phase of closed container, especially during heat treatment. Therefore keep away from fire and sources of ignition.

10.5. Incompatible materials

Materials to avoid: Alkali metals. Chloroform. nitric acid. hydrogenium peroxide. Oxidizing agents. bromine. Reducing agents. Fluor.

10.6. Hazardous decomposition products

Can be released in case of fire: Carbon monoxide (CO). Carbon dioxide (CO₂).

11. Toxicological information

11.1. Information on toxicological effects

Toxicokinetics, metabolism and distribution:

No information available.

Acute toxicity:

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

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

CAS No Chemical name

64-17-5 ethanol, ethyl alcohol

Exposure route

Dose

Species

Source

Method

oral

LD50 >5000 mg/kg

Rat

ECHA Dossier

inhalation (4 h) vapour

LC50 124,7 mg/l

Rat

ECHA Dossier

Irritation and corrosivity:

Causes serious eye irritation.

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

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Causes serious eye irritation.

Irritant effect on the skin: irritant.

Sensitising effects:

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

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.

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

STOT-single exposure:

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

May cause drowsiness or dizziness.

STOT-repeated exposure:

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

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

Aspiration hazard:

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

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

Additional information on tests:

Classification according to Regulation (EC) No 1272/2008 [CLP]: health hazard properties

12. Ecological information

12.1. Toxicity

Bacterial toxicity: Pseudomonas putidat : 18 h : EC10 : 5.175 mg/l

CAS No **Chemical name**
64-17-5 ethanol, ethyl alcohol

Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
Acute fish toxicity	LC50 14200 mg/l	96 h	Pimephales promelas	ECHA Dossier	
Acute algae toxicity	ErC50 275 mg/l	72 h	Chlorella vulgaris	ECHA Dossier	
Acute crustacea toxicity	EC50 5012 mg/l	48 h	Ceriodaphnia dubia	ECHA Dossier	
Crustacea toxicity	NOEC 9,6 mg/l	9 d	Daphnia magna	ECHA Dossier	

12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulative potential

The product has not been tested.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

12.6. Other adverse effects

No information available.

Further information:

Avoid release to the environment. Do not allow uncontrolled discharge of product into the environment.

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13. Disposal considerations

Product:

Recommendation: Disposal according to local regulations as pharmaceutical waste.

Empty contaminated packaging:

Recommendation: Disposal according to the local regulations.

14. Transport information

Land transport (ADR/RID):

14.1. UN number:	UN 1170
14.2. UN proper shipping name:	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3
Classification code:	F1
Special Provisions:	144 601
Limited quantity:	5 L
Excepted quantity:	E1
Transport category:	3
Hazard No:	30
Tunnel restriction code:	D/E

Other applicable information (land transport):

Excepted quantity: E2

Inland waterways transport (ADN):

14.1. UN number:	UN 1170
14.2. UN proper shipping name:	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3
Classification code:	F1
Special Provisions:	144 601
Limited quantity:	5 L
Excepted quantity:	E1

Other applicable information (inland waterways transport):

Excepted quantity: E2

Marine transport (IMDG):

14.1. UN number:	UN 1170
14.2. UN proper shipping name:	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Special Provisions:	144, 223
Limited quantity:	5 L
Excepted quantity:	E1
EmS:	F-E, S-D

Other applicable information (marine transport):

Excepted quantity: E2

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Air transport (ICAO-TI/IATA-DGR):

14.1. UN number:	UN 1170
14.2. UN proper shipping name:	ETHANOL SOLUTION
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3
Special Provisions:	A3 A58 A180
Limited quantity Passenger:	10 L
Passenger LQ:	Y344
Excepted quantity:	E1
IATA-packing instructions - Passenger:	355
IATA-max. quantity - Passenger:	60 L
IATA-packing instructions - Cargo:	366
IATA-max. quantity - Cargo:	220 L

Other applicable information (air transport):

Passenger-LQ:	Y341
Excepted quantity:	E2

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

Warning: Combustible liquid. Refer to section 6-8

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

not relevant

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: hydrogen peroxide solution %

Entry 40: ethanol, ethyl alcohol

2010/75/EU (VOC): 83 % (651,55 g/l)

2004/42/EC (VOC): 83 % (651,55 g/l)

Information according to 2012/18/EU

(SEVESO III):

P5c FLAMMABLE LIQUIDS

Additional information:

This substance is classified as hazardous according to Directive 67/548/EEC.

This substance is hazardous in the sense of regulation (EC) No 1272/2008 (CLP).

Directive 96/82/EC for danger control following severe accidents with dangerous substances: (Seveso II Directive): Annex I No. 7b

REACH 1907/2006 Appendix XVII, No (mixture): 3

National regulatory information:

Employment restrictions:

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

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

16. Other information

Abbreviations and acronyms:

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

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

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

OSHA: Occupational Safety and Health Administration

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NOEL: No observed effect level

NOAEL: No observed adverse effect level

LOAEL: Lowest observed adverse effect level

NOAEC: No observed adverse effect level

LOAEC: Lowest observed adverse effect concentration

DNEL: Derived No Effect Level

PNEC: predicted no effect concentration

TSCA: Toxic Substances Control Act

IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

NTP: National Toxicology Program

SARA: Superfund Amendments and Reauthorization Act

GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

PBT: Persistent bioaccumulative toxic

SVHC: substance of very high concern

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

DMEL: Derived Minimal Effect Level

PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate

LL50: Lethal loading, 50%

EL50: Effect loading, 50%

EC50: Effective Concentration 50%

ErC50: Effective Concentration 50%, growth rate

NOEC: No Observed Effect Concentration

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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

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)

EmS: Emergency Schedules

MFAG: Medical First Aid Guide

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

IBC: Intermediate Bulk Container

VOC: Volatile Organic Compounds

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

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 Can induce sleepiness

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

P240 Ground/bond container and receiving equipment.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses
if present and easy to do – continue rinsing.

P403+233: Store in a well ventilated place. Keep container tightly closed.

Further Information:

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations. The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.