



1. Identification of the substance/mixture and the company

1.1. Product identification

Substance name : WHO ALCOHOLIC HANDRUB
Hand alcohol gel recommended by the WHO for disinfecting hands
Product code : 1

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

Use of the substance or mixture : Hand wash
Recommended restrictions on use : intended for professional use only

1.3. Details of the supplier of the safety data sheet

Company : Stokerij-Eenvoud
Wachtebkestraat 118
9060 Zelzate
BELGIUM

Telephone : +32 (0) 476/56.58.86

Email address of person : info@stokerij-eenvoud.be
person responsible for the SDS

1.4. Emergency phone number

Stokerij-Eenvoud: +(32)-475/56.50.52

Phone number of the poison information centre : 070/245.245

National Poisons Information Centre (NVIC) : 030/274 88 88
For professional caregivers only

2. Hazard identification

2.1. Classification of the substance or mixture

Classification (regulation EG No 1272/2008)

Flammable liquids, Category 2 H225: flammable liquid and vapor
Eye irritation, Category 2 H319: Causes serious eye irritation



2.2. Labelling elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal : Danger

Hazard statements : H225 flammable liquid and vapor
H319 Causes serious eye irritation

Additional hazard statements : WHO recommended handrub

Avoid contact with the eyes

use on the skin only

Instructions for use: Apply the hand gel to the palm of the Hand and rub all the surface of the hands thoroughly until the skin is dry.

Safety recommendations : P102 Keep out of the reach of children

Prevention:

P210 Keep away from heat, hot surfaces, sparks, naked flames and other sources of ignition.
Do not smoke.

P233 Keep in tightly closed container

Measures:

P370 + P378 In case of fire, extinguish with dry sand or alcohol-resistant foam P305 + P351 + P338 + P310

IN CASE OF CONTACT WITH THE EYES:

rinse carefully with water for several minutes; remove contact lenses, if possible; continue to coils.

Consult a ANTIGIFCENTRUM or doctor immediately.

2.3. Other hazards

This substance/mixture does not contain any components that can be considered as persistent, bioaccumulative and toxic (PBT) or as very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.



3 Composition and information on ingredients

3.1 Mixtures

Chemical description : liquid

Components

Chemical name	CAS No. EC-No. Index no. Registration number	Grouping	Concentration (% w/w)
Ethanol	64-17-5 200-578-6 603-002-005	Flam. Liq. 2; H225 Eye Irrit. 2; H319	>= 70 - < 90
Substances with a workplace exposure limit:			
1, 2, 3-Propanotriol	56-81-5 200-289-5 01-2119471987-18- xxxx		>= 1 - < 10
Hydrogen peroxide in solution	7722-84-1 231-765-0 008-003-00-9 01-2119485845-22- 0035	Ox. Liq; H271 Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Corr. 1A; H314 Eye Dam. 1; H318 STOT SE 3; H335	>= 0,1 - < 1

For explanation of abbreviations see section 16.

4 First aid measures

4.1 Description of first aid measures

Inhalation : Injury to health in normal use not known or likely to occur
In case of respiratory symptoms: Remove to fresh air.
If symptoms persist, consult a doctor.

In case of contact with skin : If skin irritation persists, consult a doctor.

In case of contact with eyes : Rinse immediately with plenty of water, including under the eyelids, for at least 15 minutes.
Remove contact lenses.
If eye irritation persists, consult a specialist.

If swallowed : Get medical attention immediately
DO NOT induce vomiting



4.2 Most important symptoms and effects, both acute and delayed

Appearances : No data available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

5 Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing media suitable for the local environment conditions and the environment.

Unsuitable extinguishing media : none known

5.2 Special hazards arising from the substance or mixture

Specific hazards in case of : Risk of inflammation

5.3 Advice for firefighters

Special protective equipment for firefighters : In case of fire, wear a compressed air mask. Firefighters must have fire-resistant personal protective equipment.

6 Accidental release measures for the substance or mixture

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautionary measures : In case of accidental release, the emergency team should react from a risk assessment and use personal protective equipment if required.

6.2 Environmental precautions

Environmental precautions : Not to be released into the environment

6.3 Methods and material for containment and cleaning up

Cleaning methods : thoroughly clean contaminating surface.
Pick up and transfer to properly labeled containers.

6.4 Reference to other sections

For personal protection, see section 8.



7 Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : keep away from heat and ignition sources
No smoking

Advice for protection : Flammable Vapors may form explosive mixtures
against fire and explosion with air

7.2 Conditions for safe storage, including any incompatibilities.

Requirements for storage rooms and containers: keep away from heat and sources of ignition

7.3 Specific end use

Specific use(s): For the use of this substance/mixture, refer to the technical consult guidelines

8 Exposure controls/personal protection measures

8.1 Control parameters

Limits of exposure on appeal

Components	CAS No.	Type of the Value (mode of exposure)	Control parameters	Basic
Ethanol	64-17-5	TGG 8 hr	1 000 ppm 1 907 mg/m ³	BE OEL
1, 2, 3-propanetriol	56-81-5	TGG 8 hr (Mists)	10 mg/m ³	BE OEL
Hydrogen peroxide in solution	7722- 84-1	TGG 8 hr	1ppm 1.4 mg/m ³	BE OEL

8.2 Measures to control exposure

Technical measures

All personal protective equipment must be determined by an environmental health and safety expert if necessary.

Personal protection equipment

Eye protection : No special precautions required
Avoid contact with the eyes

Hand protection

Remarks : No special precautions required

Skin and body : No special precautions required
Protection



Protection of the respiratory system : No personal respiratory protection required in case of normal use

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Avoidance : liquid

Colour : clear, colourless

Odour : alcoholic

Odour threshold : no data available

pH : 6.4 - 7.4

Melting point / range : no data available

Boiling point/boiling range : no data available

Flashpoint : 21 °C

Evaporation rate : no data available

Flammability (solid, gas) : no data available

Upper explosion limit /
Upper flammability
limit value : no data available

Lower explosion limit /
Lower
flammability
limit value : no data available

Vapor pressure : no data available

Relative vapor density : no data available

Relative density : no data available

Density : no data available

**Solubility**

Solubility in water	:	soluble
Solubility in other solvents	:	no data available
Partition coefficient: n-octanol/water	:	no data available
Auto-ignition temperature	:	no data available
Decomposition temperature	:	no data available
Explosive properties	:	no data available
Oxidising properties	:	no data available

9.2 Other information

Conductivity	:	no data available
Self-ignition	:	no data available

10 Stability and reactivity

10.1 Reactivity

No dangerous reactions have been observed under normal conditions of use.

10.2 Chemical stability

Stable under normal conditions.

10.3 Potentially hazardous reactions

Hazardous reactions	:	under normal conditions of use there are no Dangerous reactions observed
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10.4 Conditions to avoid

Conditions to avoid	:	heat, flames and sparks
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10.5 Chemically interacting materials

Materials to avoid	:	Strong oxidising agents
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10.6 Hazardous decomposition products

No decomposition under normal storage conditions.

11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Constituents:

ethanol:

Acute oral toxicity : LD50 (Rat): 7 060 mg/kg
Symptoms: Nausea
Assessment: The substance or mixture does not present an acute oral toxicity

Acute toxicity by inhalation : LC50 (Rat): 2 000 mg/l
Exposure time: 4 h
Test atmosphere: vapors
Assessment: The substance or mixture does not present an acute toxicity by inhalation
: LC50 (Mouse): > 20 mg/l
Exposure time: 4 h
Test atmosphere: vapors

Acute dermal toxicity : LD50 (rabbit): > 2 000 mg/kg

1,2,3-Propanetriol:

Acute oral toxicity : LD50 oral (Rat, female): 27 mg/kg

Acute dermal toxicity : No data available: No data available

Hydrogen peroxide in solution:

Acute oral toxicity : LD50 (Rat): 225 mg/kg
Assessment: The component/mixture is of medium complexity toxic if swallowed once.
Remarks: Classification according to Regulation 1272/2008 Annex VI

Acute toxicity by inhalation : LC50 (Rat): 170 mg/l
Exposure time: 4 h
Test atmosphere: vapors

**Skin corrosion/irritation****Constituents:****ethanol:**

Method : Guideline test OECD 404

Result : No skin irritation

1,2,3-Propanetriol:

Result : No skin irritation

Hydrogen peroxide in solution:

Result : Extremely corrosive and destructive to the tissue.

Serious eye damage/eye irritation**Product:**

Result : Irritating to eyes.

Constituents:**ethanol:**

Result : Eye irritation

1,2,3-Propanetriol:

Result : No eye irritation

Hydrogen peroxide in solution:

Result Risk of serious damage to eyes

Respiratory tract/skin sensitisation**Constituents:****ethanol:**

Result : Does not cause hypersensitivity of the skin.

1,2,3-Propanetriol:

Result : No sensitising substance

Mutagenicity in germ cells**Constituents:****ethanol:**

Genotoxicity in vitro : Test type: Ames test
Testing method: Mutagenicity (Salmonella typhimurium reverse mutation test)
Result: Negative

**1,2,3-Propanetriol:**

Mutagenicity in gametes - assessment : Did not show any mutagenic or teratogenic effects in animal testing.

Carcinogenicity**Constituents:****1,2,3-Propanetriol:**

Carcinogenicity - Assessment : showed no carcinogenic effects in animal testing

Toxicity for reproduction**Constituents:****1,2,3-Propanetriol:**

Toxicity for the Reproduction - Assessment : Not toxic for reproduction.

Teratogenicity - Assessment : showed no teratogenic effects in animal studies

STOT on single exposure**Constituents:****ethanol:**

Rating : The substance or mixture is not classified as specific Target organ declaration, single exposure.

1,2,3-Propanetriol:

Notes : No adverse effects have been reported

Hydrogen peroxide in solution:

Rating : The substance or mixture is classified as specific target organ, single exposure, category 3 with respiratory irritation.

STOT on repeated exposure**Constituents:****ethanol:**

Rating : The substance or mixture is not classified as specific target organ toxicity, repeated exposure.

1,2,3-Propanetriol:

Notes : No adverse effects have been reported

**Repeated dose toxicity**

No data available

Aspiration toxicity**Constituents:****ethanol:**

No classification for toxicity by aspiration.

1,2,3-Propanetriol:

No classification for toxicity by aspiration.

Experience with exposure of people

No data available

Toxicology, Metabolism, Distribution

No data available

Neurological effects

No data available

Further information

No data available

12 Ecological information

12.1 Toxicity

Constituents:**ethanol:**

Fish toxicity : (Leuciscus idus (Goldenrod)): 8 140 mg/l
 Exposure time: 48 h
 Test type: LC50

Daphnia toxicity and : EC50 (Daphnia Magna (large water phlo)):
 Other invertebrates 9 268 - 14 221 mg/l
 aquatic animals Exposure time: 48 h

Toxicity to algae : EC50 (Chlorella pyrenoidosa): > 100 mg/l

1,2,3-Propanetriol:

Fish toxicity : LC50 (Fish): 54 000 mg/l Exposure time: 96 h

Hydrogen peroxide in solution:

Daphnia toxicity and : EC50 (Daphnia Magna (large water flea)): 7.7 mg/l
 other invertebrates Exposure time: 24h
 aquatic animals

**Ecotoxicology Assessment**

Chronic aquatic toxicity : Harmful to aquatic organisms, with long-term effects

12.2 Persistence and degradability**Constituents:****ethanol:**

Biodegradability : Biodegradation: > 70%.
Method: Guideline test OECD 301D

1,2,3-Propanetriol:

Biodegradability : Comments: No data available

12.3 Bioaccumulation**Constituents:****ethanol:**

Bioaccumulation : comments: Accumulation in aquatic organisms is unlikely

Partition coefficient: n-octanol/water : log Pow: -1,75 (25 °C)
Method: OECD Test Guideline 117

1,2,3-Propanetriol:

Bioaccumulation : Remarks: No data available

Partition coefficient: n-octanol/water : log Pow: - 1,75 (25°C)
pH: 7,4

12.4 Mobility in soil**Constituents:****1,2,3-Propanetriol:**

Distribution in and between environmental compartments : Notes: no data available

12.5 Results of PBT and vPvB assessment**Product:**

Assessment : This substance/mixture does not contain any components which can be considered as persistent, bioaccumulative and toxic (PBT) or as very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**Constituents:****1,2,3-Propanetriol:**

Assessment : No data available.

12.6 Other harmful effects**Constituents:****1,2,3-Propanetriol:**

Degradation and dispersion in the : No data available
environment

Additional ecology : No data available
Information

13 Instructions for removal**13.1 Waste treatment methods**

Product : In accordance with the national, federal, state
and local regulations.

14 Information on transport**14.1 UN number**

ADN : UN 1170
ADR : UN 1170
RID : UN 1170
IMDG : UN 1170
IATA : UN 1170

14.2 Proper cargo name according to the UN Model Regulations

ADN : ETHANOL, solution
ADR : ETHANOL, solution
RID : ETHANOL, solution
IMDG : ETHANOL, solution
IATA : Ethanol

14.3 Transport hazard class(es)

ADN : 3
ADR : 3
RID : 3
IMDG : 3
IATA : 3

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14.4 Packing group

ADN

Packing group : II
Classification code : F1
Hazard identification no. : 33
Labels : 3
Notes : This substance may be used in accordance with provisions for 'the minimum quantities' are transported if the net quantity per inner packaging ≤ 1 ml for is for liquids or ≤ 1 g for solids and the net quantity per outer packaging not exceeding 100 ml for liquids or 100 g for solids and provided that the packaging provisions of ADR/RID/ADN/IMDG §3.5.1.4 is met.

ADR

Packing group : II
Classification code : F1
Hazard identification no. : 33
Labels : 3

Tunnel restriction code : (D/E)
Notes : This substance may be used in accordance with provisions for 'the minimum quantities' are transported if the net quantity per inner packaging ≤ 1 ml for is for liquids or ≤ 1 g for solids and the net quantity per outer packaging not exceeding 100 ml for liquids or 100 g for solids and provided that the packaging provisions of ADR/RID/ADN/IMDG §3.5.1.4 is met.

RID

Packing group : II
Classification code : F1
Hazard identification no. : 33
Labels : 3
Remarks : This substance may be used in accordance with provisions for 'the minimum quantities' are transported if the net quantity per inner packaging ≤ 1 ml for is for liquids or ≤ 1 g for solids and the net quantity per outer packaging not exceeding

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100 ml for liquids or 100 g for solids
and provided that the
packaging provisions of ADR/RID/ADN/IMDG
§3.5.1.4 is met.

IMDG

Packing group : II
Labels : 3
EmS Code : F-E, S-D
Notes : This substance may be used in accordance with provisions for 'the minimum quantities' are transported if the net quantity per inner packaging \leq 1 ml for is for liquids or \leq 1 g for solids and the net quantity per outer packaging not exceeding 100 ml for liquids or 100 g for solids and provided that the packaging provisions of ADR/RID/ADN/IMDG §3.5.1.4 is met.

IATA (Cargo)

Packing requirement : 364
(cargo aircraft)
Packing requirement (LQ) : Y341
Packing requirement (EQ) : E2
Packing group : II
Labels : 3
Notes : This substance may be used in accordance with provisions for 'the minimum quantities' are transported if the net quantity per inner packaging \leq 1 ml for is for liquids or \leq 1 g for solids and the net quantity per outer packaging not exceeding 100 ml for liquids or 100 g for solids and provided that the Packaging provisions of IATA DGR §2.6.10 shall be met.

IATA (Passenger)

Packing requirement : 353
(passenger aircraft)
Packing requirement (LQ) : Y341
Packing group : II

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Labels	:	3
Notes	:	This substance may be used in accordance with provisions for 'the minimum quantities' are transported if the net quantity per inner packaging \leq 1 ml for is for liquids or \leq 1 g for solids and the net quantity per outer packaging not exceeding 100 ml for liquids or 100 g for solids and provided that the Packaging provisions of IATA DGR §2.6.10 shall be met.

14.5 Environmental hazards

ADN

Environmentally hazardous : no

ADR

Environmentally hazardous : no

RID

Environmentally hazardous : no

IMDG

Marine pollution : no

14.6 Special precautions for the user

Not applicable

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

Not applicable for product as supplied.



15 Regulation

15.1 Safety, health and environmental regulations and legislation specific to the substance or mixture

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

		Quantity 1	Quantity 2
P5c	FLAMMABLE LIQUIDS	5 000 t	50 000 t

15.2 Chemical safety assessment

A chemical safety assessment is not applicable (mixture).

16 Other information

Full text of the H statements

H225	: Highly flammable liquid and vapor.
H271	: May cause fire or explosion; strong oxidising effect.
H302	: Harmful if swallowed.
H314	: Causes severe skin burns and eye damage.
H318	: Causes serious eye damage.
H319	: Causes serious eye irritation.
H332	: Harmful by inhalation.
H335	: May cause respiratory irritation.

Full text of other abbreviations

BE OEL	: Occupational exposure limit values
BE OEL / TGG 8 hr	: Limit value

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR Agreement); AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body Weight; BSL - Biosafety Level; CLP - Classification, Labelling and Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogenic, Mutagenic or Toxic to Reproduction; DIN - Standard or German Institute for Standardisation; DSL - List of Indoor Substances (Canada); ECHA - European Chemicals Agency; EC-Number - EINECS number; ECx - Concentration associated with x% response; ELx - Charge capacity associated with x% response; EmS - Emergency Response Scheme; ENCS - Existing and New Chemicals (Japan); EbCx - Concentration associated with x% biomass response; ErCx - Concentration associated with x% growth response; GHS - Globally Harmonised System; HEPA - High Efficiency Particulate Air;

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GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - IMO International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk; IC50 - Half-Maximum Inhibitory Concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory List of Existing Chemicals in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korean Inventory of Existing Chemicals; Koc - Partition coefficient of organic carbon; LC50 - Lethal concentration for 50% of a test population; LD50 - Lethal dose for 50% of a test population (lethal dose median); LO(A)EL - Lowest level without an observed (adverse) effect; LOEC - Lowest concentration with an observed effect; MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not otherwise specified; NO(A)EC - No observable (negative) effect on concentration; NO(A)EL - No observable (negative) effect on Level; NOECb - No observable effect (No Observable Effect) Concentration Biomass Rate; NOECr - No observable effect (No Observable Effect) Concentration Growth Rate; NOELR - No observable effect on cargo capacity; NZIoC - New Zealand Inventory of Chemicals; OECD - Organisation for Economic Co-operation and Development OECD; OEL - Occupational Exposure Limits; OPPTS - Office of Chemical Safety and Pollution Prevention; PBOEL-HHC - Performance Based Occupational Exposure Limit Health Hazard Category; Pow - Octanol water partition coefficient; PBT - Difficult to degrade, bioaccumulative and toxic substance; PICCS - Philippine Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure-Activity Relationships; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH); RID - Regulations concerning the International Carriage of Dangerous Goods by Rail (RID); SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwanese Inventory of Chemical Substances; TLV - Threshold Limit Value; TRGS - Technical Regulation on Dangerous Substances; TSCA - Toxic Substances Control Act (US); TWA - Time-Weighted Average; UN - United Nations; vPvB - Extremely Persistent and Very Bioaccumulative; WEL substance - Workplace Exposure Limits.

Further information

Classification of the preparation : Classification procedure:

Flam. Liq. 2	H225	Based on product data or assessment
Eye Irrit. 2	H319	Calculation method

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Date and Number Format

This document uses the following notation to represent dates and numbers:

Date: Dec 31st, 2012 as 2012-12-31

Numbers: 123456,78 as 123 456,78

The information in this safety data sheet is correct to the best of our knowledge at the date of issue indicated. This information is intended only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a guarantee or indication of quality. The information relates only to the product referred to herein and is not valid when used in combination with other products or in any other process, unless specified in the text.

BE / English