WICKLOW WAY WINES SAFETY DATA SHEET

HAND SANITISER, 70% ALCOHOL

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

1.1 Product identifier

Brandname Wicklow Way Wines Hand Sanitiser, 70% Alcohol

Product name: Hand sanitiser (contains 70% alcohol (grain neutral spirit))

Synonyms for main ingredient: Ethanol, Alcohol, Hydroxy ethane

Formula of main ingredient: C2H6O Molecular mass of main ingredient: 46.08

FL-No. 2.078 FEMA-No. 2419

Annex VI-No. 603-002-00-5

CAS No 64-17-5

EC No 200-578-6

REACH status Compliant

REACH register no. 01-2119457610-43

Revision date 21-09-2017

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

Sector of Uses - SU - 3, 8, 9, 10, 21, 22.

Product of Categories - PC - 1, 2, 3, 4, 8, 9a, 9b, 9c, 12, 13, 14, 15, 16, 17, 18, 23, 24, 27, 28, 30, 31, 34, 35, 40

Process Categories - PROC - 1, 2, 3, 4, 5, 7, 8a, 9, 10, 11, 13, 14, 15, 16, 19, 21

Environmental Release Categories - ERC - 1, 2, 4, 6a, 7, 8a, 8d, 9a, 9b.

Full text of the categories listed in appendix 1.

Uses of the substance advised against - None

1.3. Details of the supplier of the safety data sheet

Company identification

Wicklow Way Wines

Unit 8 Newtown Business and Enterprise Centre.

Newtownmountkennedy,

Co Wicklow

Non emergency telephone +353(1)2021836

E-mail address info@wicklowwaywines.ie

1.4 Emergency telephone number

Information on poisoning centres can be found in appendix 2. This information in intended exclusively for informing professional care workers in case of acute poisoning.

SECTION 2: Hazards identification

2.1 Classification of the substance/mixture

Classification according to Regulation (EC) No 1272/2008 as amended Hazard Classes/Hazard Class-, Category- and Statement Codes

Flammable liquid Flam, Liq. 2, H225

Serious eye irritation Eye Irrit. 2, H319

Essential adverse effects

Product and product vapours are highly flammable.

Formation of explosive product-air mixtures possible.

Irritating to eyes.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Signal word DANGER

Hazard statement

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

Precautionary statements

Prevention

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

P233 Keep container tightly closed.

Response

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor / physician.

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

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

P370 + P378 In case of fire: Use powder, alcohol-resistant foam, lots of water, carbon dioxide for extinction.

Storage

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

Disposal

P501 Dispose of contents / container to a specialised waste disposal plant in accordance with local / regional regulations.

2.3 Other hazards

Results from PBT- and vPvB-assessment

Neither meets criteria for PBT nor for vPvB according to Annex XIII of the Regulation (EC) No.1907/2006 (REACH Regulation).

Additional hazards

n/a

SECTION 3: Composition/information on ingredients

Chemical name	CAS No	EC#	Concentration
Ethanol	64-17-5	200-578-6	96 vol.%
Water	7732-18-5	231-791-2	≤ 4 vol.%

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Remove the person concerned from exposure, and lay down. Fresh air, rest, keep warm (cover with a blanket). In the case of unconsciousness or remaining complaints immediately seek medical attention. Take off contaminated pieces of clothing and shoes.

Inhalation

Fresh air supply, breath donation if necessary, warmth. Consult a physician in the case of remaining complaints. In the case of unconsciousness, position the patient in the lateral recumbent position.

Skin contact

Wash skin with plenty of water or take shower. After cleaning use fatty skin care products. In the case of remaining skin irritation, consult a physician.

Eye contact

Flood the eye with plenty of water for a few minutes, holding the eyelids open. Remove contact lenses. Consult an eye-doctor.

Ingestion

Rinse mouth and drink plenty of water. In the case of unconsciousness, position the patient in the lateral recumbent position.

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

Acute symptoms and effects from exposure

Irritation of mucus membranes caused by eye contact or inhalation.

Delayed symptoms and effects from exposure

Interference of the inhibiting functions of the central nervous system, reddening of the skin, nausea resulting from ingestion of larger quantities.

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

Not necessary.

Special means to provide treatment at the workplace

Not necessary.

SECTION 5: Fire fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Alcohol resistant foam, ABC-Powder, BC-Powder, carbon dioxide, water spray.

Unsuitable extinguishing media

Water jet, alcohol unstable foam

5.2 Special hazards arising from the substance/mixture

Hazardous combustion products

Carbon monoxide and carbon dioxide containing combustion gases.

Additional hazards

Formation of explosive gas-air mixtures. Extreme generation of heat in the case of larger fires.

5.3 Advice for firefighters

Protective actions

Use water spray to cool exposed containers in the environment. Retain contaminated extinguishing water; do not allow entering into the sewage system. In the case of larger fires: Cordon affected area. Keep unprotected persons away.

Special protective equipment

Self-contained respiratory protective device, fully protective suit.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedure

For non-emergency personnel

In the case of large quantities: Use personal protective equipment to avoid any contamination of skin, eyes and personal clothes. Remove potential sources of ignition.

Do not smoke. Take measures against static discharge. Assure sufficient ventilation.

Only use suited and explosion-proof tools and devices. If available, observe corporate hazard-control and emergency plans.

For emergency responders

If available, observe corporate respectively external hazard-control plans.

6.2 Environmental precautions

Precautions to be taken related to spills

In the case of smaller quantities: no special measures required. In the case of larger quantities: Avoid penetration into the sewage canal, surface water, and ground water.

Precautions to be taken related to accidental release

Observe the fire and explosion protection measures.

Avoid contamination of the sewage channel, surface water, and ground water.

6.3 Methods and material for containment and cleaning up

Advice on spillage containment

In the case of smaller quantities: absorb in liquid-binding material (sand, diatomaceous earth, universal binding agent, sawdust).

In the case of larger quantities: apply an exhausting procedure. Erect barriers, cover canal inlets, close the spool valves of the floor drains.

Appropriate clean-up procedures

In the case of smaller quantities: no additional clean-up procedures necessary.

In the case of larger quantities: use water for the final purification.

Inappropriate containment or clean-up techniques

None known

6.4 Reference to other sections

Personal protective equipment

See Section 8.

Disposal considerations

See Section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations for safe handling

Store in properly sealed original containers. Storage area should be cool. Heating induces an increase in pressure, danger of bursting. Provide for solvent-resistant and compact flooring. In the case of storage of larger quantities the required retention volume has to be assured. Do not store together with incompatible materials. Only transfer into suited and resistant containers. Containers have to be properly labelled.

Advice on general occupational hygiene

The usual precautionary measures when handling chemicals have to be observed. When using, do not eat, drink, smoke, or sniff. Wash hands thoroughly with water and soap, and use skin care products before breaks and at the end of the work. Preventive skin protection is recommended. Apply and rub thoroughly water insoluble skin protection preparations before the start of work and at the end of each break. After cleaning use fatty skin care products.

7.2. Conditions for safe storage, including any incompatibilities Fire and explosion prevention

Only use in well-ventilated areas. Take care of sufficient ventilation; especially at floor level (vapours are heavier than air). Take measures to prevent electrostatic charges, e.g. grounding when transferring/ filing. Keep away from sources of ignition - do not smoke.

Vapour-air mixtures are explosive (e.g. formation also in empty, uncleaned containers).

Protection against ambient influences

Protect against heat and direct solar radiation. Suited materials for containers are: solvent resistant plastics, stainless steel 1.4301 (V2), 1.4401 (V42), iron.

Protection against autodecomposition

Not required.

Other conditions

None.

7.3 Specific end use(s)

Recommendations

If used as food or beverage, compliance with food safety regulation (HACCP) has to be observed.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Limit values ethanol

Belgium: 8 hours (mean value) 1907 mg/m3, 1000 ppm Germany: 8 hours (mean value) 960 mg/m3, 500 ppm

France: 8 hours (mean value) 1900 mg/m3, 1000 ppm. Short term (15 min) 9500 mg/m3, 5000 ppm

Ireland: 8 hours (mean value) 1900 mg/m3, 1000 ppm

Italy: Short term (15 min) 1000 ppm

Netherlands: 8 hours (mean value) 260 mg/m3. Short term (15 min) 1900 mg/m3. Remark: skin Austria: 8 hours (mean value) 1900 mg/m3, 1000 ppm. Short term (15 min) 3800 mg/m3, 1900 ppm Switzerland: 8 hours (mean value) 960 mg/m3, 500 ppm. Short term (15 min) 1920 mg/m3, 1000 ppm United Kingdom: 8 hours (mean value) 1920 mg/m3, 1000 ppm

DNEL

Workers short term exposition

DNEL worker (acute, inhalation - systemic): No data required

DNEL worker (acute, inhalation - local): 1 900 mg/m3

DNEL worker (acute, dermal - systemic): No data required

DNEL worker (acute, dermal - local): No data required

Workers long term exposition

DNEL worker (long-term, inhalation - systemic): 950 mg/m3 DNEL worker (long-term, inhalation - local): No data required

DNEL worker (long-term, dermal - systemic): 343 mg/kg bw/d

DNEL worker (long-term, dermal - local): No data required

Consumers short term exposition

DNEL general population (acute, inhalation - systemic): No data required

DNEL general population (acute, inhalation - local): 950 mg/m3

DNEL general population (acute, dermal - systemic): No data required

DNEL general population (acute, dermal - local): No data required

Consumers long term exposition

DNEL general population (long-term, inhalation - systemic): 114 mg/m3

DNEL general population (long-term, inhalation - local): No data required

DNEL general population (long-term, oral - local): 87 mg/kg

DNEL general population (long-term, dermal - systemic): 206 mg/kg bw/d

DNEL general population (long-term, dermal - local): No data required

PNEC

Aquatic,

fresh water: PNEC aquatic (freshwater): 0.96 mg/L marine water: PNEC aquatic (marine water): 0.79 mg/L

intermittent release: PNEC aquatic (intermittent release): 2.75 mg/L

sewage treatment: PNEC microorganisms: 580 mg/L

Sedimentary

fresh water sediment: PNEC sediment: 3.6 mg/kg sediment dw

marine water sediment: PNEC marine-sediment: 2.9 mg/kg sediment dw

Terrestrial – soil: PNEC soil: 0.63 mg/kg soil dw

Atmospheric

biotic: PNEC air (biotic): No data required abiotic: PNEC air (abiotic): No data required

Secondary poisoning - food chain: PNEC oral: 0.72 mg/kg food

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Exposure control measures

As far as required by the assessment of the exposure scenario, effective local exhaust ventilation shall be provided. Explosion prevention has to be observed.

8.2.2 Individual protection measures, such as personal protective equipment Eye/face protection

Safety eye wear, e.g. protective goggles (EN 166). The rules for the application of eye- and face protection have to be observed.

Skin/body protection

Solvent resistant protective clothing. Select body protection depending on the kind of work and possible impacts, e.g. apron, protective boots, chemical protective suit according to EN 14 605. Selection of the glove material with respect to break through times, permeation rates and degradation. Suited glove material in the case of prolonged, direct full contact (Break through time according to EN 374 > 480min): Butyl rubber (Butyl), recommended glove thickness: 0.7 mm. Suited glove material in the case of splash contact (Break through time according to EN 374 > 120 min): Nitrile rubber (NBR), recommended glove thickness: 0.4 mm. Other glove materials may be suited, too. The selection of suited protective glove does not depend only from the material but also from other quality

characteristics and may vary from manufacturer to manufacturer. The used protective gloves have to comply with the specifications of 89/686/EEC. The rules for the application of protective gloves and the practice of skin protection have to be observed.

Respiratory protection

As far as required by the assessment of the exposure scenario or in exceptional cases (e.g. in the case of accidental substance release, exceeding of the occupational exposure limit) the wearing of respiratory protection apparatus is required. The limitation of the wearing period has to be observed. Suitable respiratory protection: Breathing apparatus; gas filter A; identification colour: brown). Details of the pre-conditions for usage and the maximum application concentration have to be observed. Self-contained respirator (breathing apparatus according to DIN EN 133), to be used in the case of concentrations above the application limit of filtering devices, at oxygen concentrations below 17 % by volume or in the case of ambiguous conditions.

Observe further national regulations concerning respiratory protection.

Thermal hazards

Required in the case of fire, see section 5.

8.2.3 Environmental exposure controls

EC legislation

Water (76/464/EEC): not listed Air (1999/30/EC): not listed **Risk management measures**

See Section 15

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form Highly mobile liquid

Colour Colourless

Odour Typical alcoholic

Odour threshold (mg/m3) 178

pH value (100 g/L at 20 °C) 5.3

Melting point/freezing point (°C) - 114

Boiling point (°C) at 1013 hPa 78.2

Flash point (°C) 15 (closed cup)

Evaporation rate (butylacetate = 1) Ethanol 95% 1.4, Water 0.3

Flammability (solid, gas) Not applicable.

Upper/lower explosive limits (vol%) 2.5 - 13.5

Vapour pressure (hPa) at 20°C 57.3

Vapour pressure (hPa) at 25°C 79

Vapour density (kg/m³) 1.8

Relative vapour density (air = 1) 1.6

Relative density at 20 °C 0.806

Relative density at 25 °C 0.809

Solubility in water (g/l) Unlimited miscible with water

Solubility in fat Soluble

Partition coefficient (Log K octanol/water) at 20 °C - 0.35

Auto-ignition temperature (°C) 363

Decomposition temperature > 700 (secondary literature), Thermal stable, no self-reactive substance

Viscosity (dynamic) at 20 °C (mPa.s) 1.2

Viscosity (kinematic) at 20°C (µm2/s) 1.52

Explosive properties No explosive properties (justified by the chemical structure).

Oxidising properties No oxidising properties (justified by the chemical structure).

Miscibility Unlimited miscible with diethyl ether, chloroform, petrol and benzene.

Conductivity (pS/m) 130 000

Self-heating properties No self-heating substance.

Dissociation constant at 20°C (pKa) 15.8

Heat of combustion (kJ/kg) 29 685

SECTION 10: Stability and reactivity

10.1 Reactivity

General information



No hazardous reactions provided that the instructions/advices concerning storage and handling have been implemented effectively.

Corrosiveness to metals

Not corrosive to metals.

10.2 Chemical stability

Stability under ambient conditions

Stable at usual storage conditions.

Required stabilisers

No stabilizers required.

Further information

None.

10.3 Possibility of hazardous reactions

Exothermic reactions

Exothermic, partially violent reactions with alkali and alkaline earth metals, strong acids and oxidizers possible.

Spontaneous polymerisation

No polymerisation.

10.4 Conditions to avoid

Temperature

Storage temperatures > 40 °C should be avoided (increase in pressure, deformation of the containers), if applicable, equalizing of pressure has to be ensured.

Pressure

Not applicable.

Air / oxygen

Not applicable.

Light

Not applicable.

Static discharge

Avoid static discharge, explosion hazard in presence of product /air mixtures.

Other physical stresses

No impacts to be expected.

10.5 Incompatible materials

Violent reactions

Development of heat in reactions with alkali and alkaline earth metals, e.g. sodium (laboratory), with acids, e.g. sulphuric acid or strong oxidizers.

Formation of toxic decomposition products

In the case of fire, formation of carbon monoxide possible.

Formation of explosive atmosphere

Formation of hydrogen-/ethanol-/air-mixtures in reactions with alkali and alkaline earth metals.

Water, humidity

No dangerous reaction with water, no formation of combustible or toxic gases.

10.6 Hazardous decomposition products

During handling and storage

None.

SECTION 11: Toxicological information

11.1 Information on toxicological effects of Ethanol

Acute toxicity

- Oral

Oral administration:

LD50 (rat, female, OECD 401): 15 010 mg/kg

LD50 (rat, male, young animals, OECD 401): 10 600 mg/kg

LD50 (rat, OECD 401): 10 470 mg/kg LD50 (mouse, OECD 401): 8 350 mg/kg

For the derivation of the DNELs and the assessment in the CSA the value 10 470 mg/kg is used.

- Intraperitoneal

Intraperitoneal administration:

LD50 (rat, young animals, OECD 401): > 5 500 mg/kg

LD50 (rat, fully-grown animals, OECD 401): > 4 070 mg/kg

LD50 (mouse, male, OECD 401): > 9 020 mg/kg

LD50 (mouse, female, OECD 401): > 9 450 mg/kg

Based on available data, the classification criteria for one of the categories of this hazard class are not met.

- Dermal

No test data available.

Due to the rapid evaporation in the case of a skin contamination a dermal exposure is negligible.

Due to this fact, the classification criteria for one of the categories of this hazard class are not met.

- Inhalative

LC50 (rat, female, OECD 403): 55 mg/L/4h

LC50 (rat, male, OECD 403): 51 mg/L/4h

LC50 (mouse, OECD 403): > 60 mg/L/1h

Based on available data, the classification criteria for one of the categories of this hazard class are not met.

Repeated dose toxicity

- Oral

NOAEL (90 d, rat, female, OECD 408): 1 730 mg/kgbw/d

NOAEL (90 d, rat, female, OECD 408): > 9 400 mg/kgbw/d

NOAEL (90 d, Macaca radiata, EPA OPPTS): 1 730 mg/kgbw/d

Target organ(s): Liver

For the derivation of the DNELs and the assessment in the CSA the value 1 730 mg/kg is used.

- Dermal

No test data available.

Due to the rapid evaporation in the case of a skin contamination a dermal exposure is negligible. A repeated relevant dermal contamination can be excluded.

- Inhalative

NOAEL (20 d, rat, male, OECD 403): > 20 mg/L

Skin corrosion/irritation

Not irritant (rabbit, OECD 404)

Not irritant to very slightly irritating (epidemiological studies on humans).

Based on available data, the classification criteria for one of the categories of this hazard class are not met.

Serious eye damage/eye irritation

No irreversible effects on the eye (rabbit eye, OECD 405)

Irritating to eyes (rabbit eye, OECD 405)

Respiratory or skin sensitisation

Not sensitizing to skin (mouse, male, OECD 429)

Not sensitizing to skin (mouse, ear swelling-test)

Respiratory sensitisation: no data available.

Based on available data, the classification criteria for one of the categories of this hazard class are not met.

Germ cell mutagenicity

In-vitro bacterial reverse mutation: negative with and without metabolic Activation (Salmonella typhimurium, OECD 471, Ames test).

In-vitro bacterial reverse mutation: positive and negative without metabolic activation (Escherichia coli, no guideline test).

In-vitro cytotoxicity in mammalian cells: negative without metabolic activation (mouse lymphoma, OECD 476).

In-vitro chromosome aberration: negative without metabolic activation (hamster ovary cells, OECD 473).

In-vivo micro nucleus test: negative (mouse, OECD 475)

In-vivo chromosome aberration: negative (hamster, OECD 475)

Dominant-lethal assay: positive and negative (mouse, OECD 478)

No evidence for germ cell mutagenicity, unless human data which exclusively will be reduced to excessive alcohol consumption remain disregarded.

Based on available data, the classification criteria for one of the categories of this hazard class are not met.

Carcinogenicity

NOAEL(carcinogenicity, rat, 24 mon, OECD 451): > 3 000 mg/kgbw

NOAEL(carcinogenicity, mouse, female, 24 mon, EPA OPPTS 870.4200): > 4 400 mg/kgbw

NOAEL(carcinogenicity, mouse, male, 24 mon, EPA OPPTS 870.4200): > 4 250 mg/kgbw

BMDL10 (carcinogenicity, mouse, male, 24 mon): 1 400 mg/kg

Results of epidemiologic studies based on excessive consumption of ethanol in alcoholic beverages cannot be extrapolated for the assessment of cancerogenic properties of ethanol in the work place. The only epidemiologic data, which may be relevant in this context, refers to the development of breast cancer. However available data show that no increased cancer risk is to be expected for the correlating scenarios in the work place. Based on available data, the classification criteria for one of the categories of this hazard class are not met.

Fertility

NOAEL(fertility, oral, mouse, young animal/litter, sperm effects in F1 generation, OECD 416): 13.8 g/kg

NOAEL(fertility, oral, mouse, male, other effects in F1 generation, OECD 416): 21.5 g/kg

NOAEL(fertility, inhalative, rat, male, OECD 415): > 23 mg/L

For the assessment of the reproductive toxicity in the CSA, the values NOAEL: 13 800 mg/kgbw/d (oral) and NOAEC: 30 400 mg/m³ (inhalative) were used.

Teratogenicity

NOAEC(teratogenicity, inhalative, rat, OECD 414): > 20 000 ppm

NOAEL(teratogenicity, oral, rat, OECD 414): > 6.7 g/kg NOAEL(teratogenicity, oral, mouse, OECD 414): 13.7 g/kg

Fetotoxicity

NOAEL(fetotoxicity, oral, rat, OECD 414): > 5.7 g/kg

Embryotoxicity

NOAEL(embryotoxicity, oral, rat, OECD 414): > 3.6 g/kg

Maternal toxicity

NOAEC(maternal, inhalativ, rat, OECD 414): > 3.6 g/kg 16 000 ppm

NOAEL(maternal) (oral, rat, OECD 414): 8.2 g/kg

NOAEL(maternal) (oral, mouse, OECD 414): < 2.2 g/kg

For the assessment of the developmental toxicity in the CSA, the values NOAEL: 5 200 mg/kgbw/d (oral) and NOAEC: 39 000 mg/m³ (inhalative) were used.

Based on available data, the classification criteria for one of the categories of this hazard class are not met.

Specific target organ toxicity - single exposure

Respiratory tract: No test data available

Cross reading from other short chain alcohols show that no significant irritation of the respiratory tract has to be expected.

Mucous membranes: No test data available.

Narcotic effects: No test data available.

Results of human toxicity studies based on the consumption of ethanol in alcoholic beverages cannot be used for the assessment of narcotic effects of ethanol as chemical in the work place.

Based on available data, the classification criteria for one of the categories of this hazard class are not met.

Specific target organ toxicity - repeated exposure

Neurotoxicity

NOEL (Neurotoxicity): (nominal): < 1 000 ppm

NOAEL (behavioural development): ≥ 1 600 mg/m³

Based on available data, the classification criteria for one of the categories of this hazard class are not met.

Aspiration hazard

No indication that the substance may pose aspiration toxicity.

Based on available data, the classification criteria for one of the categories of this hazard class are not met.

11.2 Toxicokinetics / routes of exposure

Absorption

Ethanol has a low molar mass, and is readily soluble as well in water as in fat. So it can be easily absorbed in the whole gastro-intestinal tract, in the lungs and from the skin. After ingestion ca. 90 % is incorporated via the gastro-intestinal tract. In the case of inhalative exposure, this value amounts to 61 %. Due to the rapid evaporation an intake through the skin is quite limited; theoretically 21 % can be absorbed, however, the absorption rate in the case of uncovered skin only amounts between 1 and 2 %.

Distribution

Independent from the route of exposure, ethanol distributes in the blood circulation of the whole body,

comparable with the distribution of water. Internal organs with good good circulation (brain, lung and liver) are rapidly flown through. An equilibrium between tissue and blood is adjusted after ca. 1 to 1.5 h.

Metabolism

Already prior to the absorption a small part of the ethanol will be enzymatically metabolized in the stomach (alcohol-dehydrogenase).

After absorption, Ethanol will be preferably metabolized in the liver (92 - 95%), partially also in the kidneys and in the lung.

The metabolization takes place in three stages:

- 1. Oxidation of ethanol to acetaldehyde
- 2. Oxidation of acetaldehyde to acetate
- 3. Oxidation of acetate to carbon dioxide and water.

Elimination

Most of the ethanol will be eliminated by the metabolism; less important is the secretion through respiratory air, urine and sweat. The maximum elimination of ethanol is estimated to 127 mg/kgbw/h.

11.3 Other information

Other information

Depending on the ingested amounts, a decrease of the inhibition threshold, euphoria but also dysphoria, aggressiveness, colonic motor dysfunction, interference of the responsiveness, vision disorders und tiredness may be induced.

SECTION 12: Ecological information

12.1 Ecological toxicity of Ethanol

Aquatic compartment and sediment

Fish

LC50 (24h, oncorhynchus mykiss, US EPA E03-05): 11 200 mg/L

LC50 (96h, oncorhynchus mykiss, OECD 203): 13 000 mg/L

NOEC (30d, QSAR, US-EPA E03-05): 245 mg/L

Crustaceans

LC50 (48h, daphnia magna, fresh water, ASTM E729-80): 12 340 mg/L

LC50 (48h, ceriodaphnia dubia, fresh water, ASTM E729-80): 5 012 mg/L

LC50 (24h, artemia salina, marine water, ASTM E729-80): 858 mg/L

EC50 (10d, ceriodaphnia dubia, fresh water, semi-static): 1 806 mg/L

NOEC (10d, ceriodaphnia dubia, fresh water, semi-static): 9.6 mg/L

LC50 (12d, palaemonetes pugio, marine water, SETAP): 530 mg/L

NOEC (12d, palaemonetes pugio, marine water, SETAP): 79 mg/L Algae

EC50 (72h, chlorella vulgaris, fresh water, OECD 201): 275 mg/L

EC10 (72h, chlorella vulgaris, fresh water, OECD 201): 11.5 mg/L

EC50 (48h, selenastrum capricornutum, fresh water, OECD 201): 12 900 mg/L

EC50 (48h, selenastrum capricornutum, fresh water, OECD 201): 440 mg/L

EC50 (5d, skeletonema costatum, marine water, OPPTS 850.5400): 10 943 mg/L

NOEC (5d, skeletonema costatum, marine water, OPPTS 850.5400): 3 240 mg/L

EC50 (7d, lemma gibba, fresh water, EPA OPPTS 850.4400): 4 432 mg/L

NOEC (7d, lemma gibba, fresh water, EPA OPPTS 850.4400): 280 mg/L

Based on available data, the classification criteria for one of the categories of this hazard class are not met.

Sediment organisms

LC50 (18h, hyallela sp, non-guideline study): 8 200 mg/L

LC50 (18h, palaemonetes sp, non-guideline study): 10 100 mg/L

LC50 (18h, limit test): > 100 mg/L

Microbiological activity and impact on sewage treatment plants

EC50 (4h, paramaecium caudatum, non-guideline study): 5 800 mg/L

EC5 (48h, uronema parduzci, DIN 38412, part 8): 6 120 mg/L

EC5 (72h, entosiphon sulcatumi, DIN 38412, part 8): 65 mg/L

Terrestrial compartment

- Arthropods: No data available
- Other soil macro-organisms

LC50 (48h, eisenia fetida, non-guideline study): < 1 mg/cm²

Very low toxicity to earth-worms

- Plants

EC50 (6d, allium cepa, growth, non-guideline study): 11 800 mg/L

EC10 (6d, allium cepa, growth, non-guideline study): 790 mg/L

Relatively weak developed toxicity to plants.

Atmospheric compartment

- Ozone depleting potential: No ozone depleting potential.
- Other impacts: None known

Adverse impact on the food chain (secondary poisoning)

- Birds: No data available.

Direct or indirect exposition is unlikely.

- Mammalians: No data available.

Direct or indirect exposition is unlikely.

12.2 Persistence and degradability

Abiotic degradability

Hydrolysis: hydrolysis-resistant, t ½(20 °C, pH 7) >1 - < 36 a.

Photolysis: t ½(air) = 38 d t ½(air, 100 ppm NO2) = 11.5 h

Biodegradability

Biodegradability in fresh water

Readily biodegradable

4d 8d 15d 28d

Degradation (%) 80 88 90 97 (OECD 301B)

Anaerobe degradability: Readily degradable (expert judgement)

Biodegradability in marine water

Inherent biodegradable

5d 10d 15d 28d

Degradation (%) 45 *) 68 72 75

*) Mixture of marine water and sewage, O2-consumption

Degradability in surface water and sediment: No data available.

Degradability in soil: No data available.

12.3 Bioaccumulation potential

Aquatic bioaccumulation

No test data available.

BCF = 3.2 (estimation based on a calculation method).

No remarkable bioaccumulation potential (log Kow < 4 and BCF < 500).

12.4 Mobility in soil

Adsorption/desorption

No data available.

Mobility/leaching

Henry constant: 3.3. 10-6 atm. M³/mole, dimensionless: 1.38. 10-4 (calculation).

Distribution

Model calculation according to Mackay, EPIWIN:

air water soil sediment

45.00% 33.10% 13.70% 0.1 %.

12.5 Results of PBT and vPvB assessment

PBT assessment

Does not meet the PBT criteria according to annex XIII of Regulation (EC) No 1907/2006.

vPvB assessment

Does not meet the vPvB criteria according to annex XIII of Regulation (EC) No 1907/2006.

12.6 Other information

Chemical oxygen demand

COD = 1900 mg/g

Biochemical oxygen demand

BOD5 = 1 000 mg/g

Further information

Without pre-treatment, the product should not be allowed to enter waters.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Do not dispose together with domestic waste. Avoid penetration into the sewage canal.

Incineration recommended. The respective national and regional regulations have to be observed.

Contaminated packaging

Uncleaned empty package have to be treated like the content. The labelling of uncleaned containers must not be removed. Empty containers completely, if appropriate use water. Dispose rinsing- and cleaning water in compliance with local regulatory requirements. Non-contaminated containers can be used again. Damaged containers should be recycled. Packaging which cannot be cleaned has to be disposed like the product.

Further information

European waste list (EURAL) 07 01 04

SECTION 14: Transport information

Carriage by Road or Rail - ADR/RID

14.1 UN No: 1170

14.2 UN proper shipping name: Ethanol (Ethyl alcohol)

14.3 Transport hazard class: 314.4 Packaging group: II14.5 Environmental hazards

Marine pollutant: -

14.6

Dangerous good label: 3 Tunnel category: (D/E)

Hazardous identification number: 33

Limited quantity (LQ): 1 L Excepted quantity: E2

ERICard: 3-09

Emergency measures in the event of accident (IMO/IMDG)

In the case of fire: In the case of spillage: -

Carriage by Inland Waterways - ADN

14.1 UN No: 1170

14.2 UN proper shipping name: Ethanol (Ethyl alcohol)

14.3 Transport hazard class: 3 14.4 Packaging group: II 14.5 Environmental hazards

Marine pollutant: -

Hazards for tank vessels: 3

Dangerous good label: 3

14.6

Tunnel category: - Hazardous identification number: -

Limited quantity (LQ): 1 L Excepted quantity: E2

ERICard: -

Emergency measures in the event of accident (IMO/IMDG)

In the case of fire: -In the case of spillage: -

Marine Transport - IMO/IMDG

14.1 UN No: 1170

14.2 UN proper shipping name: Ethanol (Ethyl alcohol)

14.3 Transport hazard class: 314.4 Packaging group: II14.5 Environmental hazards:

Marine pollutant: No

14.6

Dangerous good label: 3

Tunnel category: -

Hazardous identification number: -

Limited quantity (LQ): 1 L Excepted quantity: E2

ERICard: -

Emergency measures in the event of accident (IMO/IMDG)

In the case of fire: Echo (F-E)
In the case of spillage: Delta (S-D)
Transport by Air - IATA/ICAO

14.1 UN No: 1170

14.2 UN proper shipping name: Ethanol (Ethyl alcohol)

14.3 Transport hazard class: 3

14.4 Packaging group: II14.5 Environmental hazards

Marine pollutant: -

14.6

Dangerous good label: 3 Tunnel category: -

Hazardous identification number: -

Limited quantity (LQ): 1 L Excepted quantity: E2

ERICard: -

Emergency measures in the event of accident (IMO/IMDG)

In the case of fire: -In the case of spillage: -

14.7 Special precaution for user

Individual transport

In the case of conveyance in cars: Observe national regulations or guidelines.

Conveyance either within or outside the premises

No additional measures necessary.

14.8 Transport in bulk

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

Not within the scope of MARPOL

Required ship type

Not applicable.

Pollution category

Ζ

14.9 Other information

Sample shipment

In the case of sample shipment, specific transport conditions of the service provider have to be observed (when required).

SECTION 15: Regulatory information

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

Ozone layer depleting substances/mixture

Not subject to Regulation (EC) No 1005/2009.

Persistent organic pollutants (POPs)

Not subject to Regulation (EC) No 850/2004.

Export and import of dangerous chemicals

Not subject to Regulation (EC) No 649/2012.

Detergents Regulation

Not subject to Regulation (EC) No 648/2004.

Authorisations (REACH)

Not subject to Title VII of Regulation (EC) No 1907/2006

Restrictions (REACH), SVHC

No restrictions according to Title VIII of Regulation (EC) No 1907/2006.

SVHC status (Substance of Very High Concern): negative

Control of major-accident hazards (COMAH, Seveso II)

Subject to Directive 2012/18/EU: P5c Flammable Liquids

Quantity threshold value column 1: 5 000 000 kg Quantity threshold value column 2: 50 000 000 kg

Other regulations

Additional national regulations have to be observed.

15.2 Chemical safety assessment

For this product a chemical safety assessment was carried out.

Commission Regulation (EU) No. 453/2010 amending Regulation (EC) No. 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

SECTION 16: Other information

16.1 Information on revision

Reason for changes

Update after ILT inspection

ILT = Inspection Environment and Transport of the Netherlands, department : Dangerous Goods.

Flag of the changes

Due to the new layout and the variety of changes, revised sections have been left unlabelled.

16.2 Abbreviations and acronyms

CAS Chemical Abstracts Service (Division der American Chemical Society)

CLP Classification, Labelling and Packaging

CSA Chemical Safety Assessment

CSR Chemical Safety Report

DNEL Derived No Effect Level

DMEL Derived Minimal Effect Level

EC50 Effect Concentration, 50 percent

EC-Number EINECS-, ELINCS- or CLP-Number

EINECS European Inventory of Existing Commercial Chemical Substances

ELINCS European List of Notified Chemical Substances

ERICard Emergency Response Intervention Card

GHS / CLP Globally Harmonised System / Classification, Labelling and Packaging

IC50 Inhibitory Concentration, 50 percent

LC50 Lethal Concentration, 50 percent

LD50 Lethal Dose, 50 percent

NOAEC No observed adverse effect concentration

NOAEL No observed adverse effect level

NOEL No observed effect level

PBT Persistent, Bioaccumulative and Toxic

PNEC Predicted No Effect Concentration

ppm Parts per million

TLV Threshold Limit Value

TWA Time Weighted Average

vPvB very persistent and very bioaccumulative

16.3 Literature references and sources for data

Chemical Safety Report, CSR1, Royal Nedalco, Nederland, Sas van Gent, Nov. 2010.

IUCLID, International Uniform Chemical Database (European Commission)

GESTIS Stoffdatenbank des berufsgenossenschaftlichen Instituts für Arbeitssicherheit - BIA. Merkblätter BG RCI

"Alkohol" Ethanol, Peter Bützer, August 2002

16.5 Other information relating to Regulation 1272/2008

Specific concentration limits: According to the available data, a specific concentration limit of 50% can be applied to the classification of mixtures containing this substance for the eye irritancy classification end point. Date of first issue 07-04-2016. Supersedes date 21-09-2017

Revision information

Appendix 1

Full text of the sectors of use (ECHA-2010-G-05-EN 26/03/2010)

Full text of the sectors of use

SU1 Agriculture, forestry, fishery

SU2a Mining (without offshore industries)

SU2b Offshore industries

SU4 Manufacture of food products

SU5 Manufacture of textiles, leather, fur

SU6a Manufacture of wood and wood products

SU6b Manufacture of pulp, paper and paper products

SU7 Printing and reproduction of recorded media

SU8 Manufacture of bulk, large scale chemicals (including petroleum products)

SU9 Manufacture of fine chemicals

SU11 Manufacture of rubber products

SU12 Manufacture of plastics products, including compounding and conversion

SU13 Manufacture of other non-metallic mineral products, e.g. plasters, cement

SU14 Manufacture of basic metals, including alloys.

SU15 Manufacture of fabricated metal products, except machinery and equipment

SU16 Manufacture of computer, electronic and optical products, electrical equipment

SU17 General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment

SU18 Manufacture of furniture

SU19 Building and construction work

SU20 Health services

SU23 Electricity, steam, gas water supply and sewage treatment

SU24 Scientific Research and Development

SU0 Other

Full text of the process categories

PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions

PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions. PROC3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment conditions.

PROC4 Chemical production where opportunity for exposure arises

PROC5 Mixing or blending in batch processes

PROC6 Calendering operations

PROC7 Industrial spraying

PROC8a Transfer of substance or mixture (charging/discharging) at non dedicated facilities

PROC8b Transfer of substance or mixture (charging/discharging) at dedicated facilities

PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

PROC10 Roller or brushing application

PROC11 Non industrial spraying

PROC12 Use of blow agents in manufacture of foam

PROC13 Treatment of articles by dipping and pouring

PROC14 Tabletting, compression, extrusion, pelletisation, granulation

PROC15 Use a laboratory reagent

PROC16 Use of fuels

PROC17 Lubrication at high energy conditions in metal working operations

PROC18 General greasing/lubrication at high kinetic energy conditions

PROC19 Manual activities involving hand contacts

PROC20 Use of functional fluids in small devices

PROC21 Low energy manipulation and handling of substances bound in/on materials or articles

PROC22 Manufacturing and processing of minerals and/or metals at substantially elevated temperature

PROC23 Open processing and transfer operations at elevated substantially elevated temperature

PROC24 High (mechanical) energy work-up of substances bound in/on materials and/or articles

PROC25 Other hot work operations with metals

PROC26 Handling of solid inorganic substances at ambient temperature

PROC27a Production of metal powders (hot processes)

PROC27b Production of metal powders (wet processes)

PROC28 Manual maintenance (cleaning and repair) of machinery

PROC0 Other

Full text of the product categories

PC1 Adhesives, sealants

PC2 Adsorbents

PC3 Air care producst

PC4 Anti-Freeze and de-icing products

PC7 Base metals or alloy

PC8 Biocidal products

PC9a Coating or paints, thinners, paint removers

PC9b Fillers, putties, plasters, modelling clay

PC9c Finger paints

PC11 Explosives

PC12 Fertilizers

PC13 Fuels

PC14 Metal surface treatment products

PC15 Non-metal-surface treatment products

PC16 Heat transfer fluids

PC17 Hydraulic fluids

PC18 Ink and toners

PC20 Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents

PC21 Laboratory chemicals

PC23 Leather treatment products

PC24 Lubricants, greases, release products

PC25 Metal working fluids

PC26 Paper and board treatment products

PC27 Plant protection products

PC28 Perfumes, fragrance

PC29 Pharmaceuticals

PC30 Photo-chemicals

PC31 Polishes and wax blends

PC32 Polymer preparations and compounds

PC33 Semiconductors

PC34 Textile dyes, and impregnating products

PC35 Washing and cleaning products

PC36 Water softeners

PC37 Water treatment chemicals

PC38 Welding and soldering products, flux products

PC39 Cosmetics, personal care products

PC40 Extraction agents

PC41 Oil and gas exploration or production products

PC42 Electrolytes for batteries

PC0 Other

Full text of the environmental release categories

ERC1 Manufacture of the substance

ERC2 Formulation into mixture

ERC3 Formulation into solid matrix

ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)

ERC5 Use at industrial site leading to inclusion into/onto article

ERC6a Use of intermediate

ERC6b Use of reactive processing aids at industrial site (no inclusion into or onto article)

ERC6c Use of monomer in polymerisation processes at industrial site (inclusion or not into/onto article)

ERC6d Use of reactive process regulators in polymerisation processes at industrial site (inclusion or not into/onto article)

ERC7 Use of functional fluid at industrial site

ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)

ERC8b Widespread use of reactive processing aid (no inclusion into or onto article, indoor)

ERC8c Widespread use leading to inclusion into or onto article (indoor)

ERC8d Widespread use of non -reactive processing aid (no inclusion into or onto article, outdoor)

ERC8e Widespread use of reactive processing aid (no inclusion into or onto article, outdoor)

ERC8f Widespread use leading to inclusion into or onto article (outdoor)

ERC9a Widespread use of functional fluid (indoor)

ERC9b Widespread use of functional fluid (outdoor)

ERC10a Widespread use of articles with low release (outdoor)

ERC10b Widespread use of articles with high release or intended release (outdoor)

ERC11a Widespread use of articles with low release (indoor)

ERC11b Widespread use of articles with high release or intended release (indoor)



ERC12a Processing of articles at industrial sites with low release

ERC12b Processing of articles at industrial sites with high release

ERC12c Use of articles at industrial sites with low release

Appendix 2 Emergency numbers

Medical information - Poisons Centres

Austria +43 (0) 1 406 43 43 - Vergiftungsinformationszentrale (Poisons Information Centre)

Belgium +32 (0) 70 245 245 - Centre Antipoisons-Antigifcentrum

Denmark +45 82 12 12 12 - Poison Information Center

Finland +358 9 471977 - Finnish Poison Information Centre

France +33 1 45 42 59 59 - ORFILA (INRS)

Germany +49 228 192 40 - Poison Center Bonn

Ireland +353 1 837 9964 - Poisons Information Centre of Ireland for medical professionals +353 1 809 2166 - (public)

Luxembourg see Belgium

Netherlands +31 30 274 88 88 - National Poisons Information Centre

Norway +47 22 59 13 00 - Norwegian Poisons Information Centre

Poland +48 71 343 30 08 - Lower Silesian Poisons and Toxicilogical Information Centre, Wroclaw

+48 22 619 66 54 - Warsaw Poison Information and Control Centre

Sweden +46 8 33 12 31 / 112 - Giftinformationscentralen (Swedish Poisons Information Centre)

Switzerland +41 44 251 51 51 - Swiss Toxicological Information Centre (in Switzerland dial 145)

United Kingdom England - 844 892 0111 - National Poisons Information Service (Birmingham)

Wales - 844 892 0111 - National Poisons Information Service (Cardiff)

Scotland - 844 892 0111 - National Poisons Information Service (Edinburgh)

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FINE IRISH FRUIT WINE