Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 07.06.2021

Scharlau

Version number 2.0

Revision: 02.06.2021

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

- 1.1 Product identifier
- · Trade name: Ethanol 96% v/v, for analysis, ExpertQ®, ACS, Reag. Ph Eur
- · Article number: ET0004
- · Registration number

A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

- 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- · Application of the substance / the preparation: Laboratory reagent

• 1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier: Scharlab, S.L. C/Gato Pérez, 33. Pol.Ind. Mas d'en Cisa 08181 Sentmenat (Barcelona) SPAIN Tel: (+34) 93 745 64 00 - FAX: (+34) 93 715 27 65 email: scharlab@scharlab.com Internet Web Site: www.scharlab.com

- Regional representation: Scharlab, S.L. C/Gato Pérez, 33. Pol.Ind. Mas d'en Cisa 08181 Sentmenat (Barcelona) SPAIN Tel: (+34) 93 745 64 00 - FAX: (+34) 93 715 27 65 email: scharlab@scharlab.com Internet Web Site: www.scharlab.com
- · Further information obtainable from: technical department

· 1.4 Emergency telephone number: Toxicological Information National Institute of Toxicology and Forensic Sciences: + 34 91 562 04 20. The information will be provided (24h/365 days) Please contact the regional Scharlab distributor/dealer in your country During normal opening times: Scharlab, S.L. (+34) 93 715 18 11

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



Eye Irrit. 2 H319 Causes serious eye irritation.

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- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation.

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Trade name: Ethanol 96% v/v, for analysis, ExpertQ®, ACS, Reag. Ph Eur

(Contd. of page 1) · Hazard pictograms GHS07 GHS02 · Signal word Danger Hazard statements H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation. Precautionary statements P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P241 Use explosion-proof [electrical/ventilating/lighting] equipment. P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P501 Dispose of contents/container in accordance with local/regional/national/ international regulations. 2.3 Other hazards Results of PBT and vPvB assessment PBT: Not applicable.

· vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

- · Description: Mixture of substances listed below with nonhazardous additions.
- · Dangerous components:

CAS: 64-17-5 EINECS: 200-578-6 Reg.nr.: 01-2119457610-43-XXXX

 50-100%

· Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

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• After inhalation: Supply fresh air; consult doctor in case of complaints.

- After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

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SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- Suitable extinguishing agents:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. 5.2 Special hazards arising from the substance or mixture
- No further relevant information available.
- 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions: Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

- 6.3 Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.
- 6.4 Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling No special precautions are necessary if used correctly.
- Information about fire and explosion protection:
- Keep ignition sources away Do not smoke.

Protect against electrostatic charges.

- 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: Store in a cool location.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed receptacles.
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- 8.1 Control parameters
- Additional information about design of technical facilities: No further data; see item 7.
- Ingredients with limit values that require monitoring at the workplace:

64-17-5 ethanol

- WEL Long-term value: 1920 mg/m³, 1000 ppm
- · Additional information: The lists valid during the making were used as basis.
- 8.2 Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures: Wash hands before breaks and at the end of work.
- · Respiratory protection: Not required.

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- · Protection of hands:
- The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
- Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
- Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

SECTION 9: Physical and chemical properties

- · 9.1 Information on basic physical and chemical properties
- General Information
- · Appearance:
- Form: Colour:
- · Odour:
- · Odour threshold:
- · pH-value:
- Change in condition Melting point/freezing point: -114 °C Initial boiling point and boiling range: 78 °C
- · Flash point:
- · Flammability (solid, gas):
- · Ignition temperature:
- · Decomposition temperature:
- · Auto-ignition temperature:
- Explosive properties:
- Explosion limits: Lower: Upper:
- Vapour pressure at 20 °C:
- · Density at 20 °C:
- · Relative density
- · Vapour density
- Evaporation rate

Fluid Colourless Like alcohol Not determined.

Not determined.

9°C

Not applicable. 423 °C

Not determined.

Product is not selfigniting.

Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

3.5 Vol % 15 Vol %

60.928 hPa

0.81 g/cm³ Not determined. Not determined. Not determined.

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Trade name: Ethanol 96% v/v, for analysis, ExpertQ®, ACS, Reag. Ph Eur

- Solubility in / Miscibility with water at 20 °C:
- · Partition coefficient: n-octanol/water:

1,000 g/l Not determined.

- · Viscosity: **Dynamic:** Kinematic:
- · Solvent content: Organic solvents: Water:

Not determined. Not determined.

96.0 %

4.0 %

· 9.2 Other information

No further relevant information available.

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
- · Acute toxicity Based on available data, the classification criteria are not met.
- · Primary irritant effect:
- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation
- Causes serious eye irritation.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Additional toxicological information:
- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- 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.

SECTION 12: Ecological information

- 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- Additional ecological information:
- General notes:
- Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

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(Contd. of page 5) Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

12.5 Results of PBT and vPvB assessment

- · PBT: Not applicable.
- · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- **Recommendation** Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

14.1 UN-Number
ADR, IMDG, IATA
14.2 UN proper shipping name
ADR

UN1170

1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION) ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION) ETHANOL SOLUTION

·IMDG

- · IATA
- · 14.3 Transport hazard class(es)
- · ADR, IMDG, IATA



• Class 3 Flammable liquids.	
· Label 3	
• 14.4 Packing group	
· ADR, IMDG, IATA	
14.5 Environmental hazards:	•
• Marine pollutant: No	
• 14.6 Special precautions for user Warning: Flammable liquids.	
Hazard identification number (Kemler code): 33	
• EMS Number: F-E,S-D	
Stowage Category	
14.7 Transport in bulk according to Annex II	
of Marpol and the IBC Code Not applicable.	
Transport/Additional information:	0
· ADR	
· Limited guantities (LQ) 1L	<u>`0`</u>
Transport category 2	C,
Tunnel restriction code	. L
	(Contd. on p

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· UN "Model Regulation":

(Contd. of page 6) UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, II

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- Seveso category P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 5000 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 50000 t
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- <u>DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in</u> electrical and electronic equipment – Annex II

None of the ingredients is listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation.

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· Classification according to Regulation (EC) No 1272/2008

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

· Department issuing SDS: product safety department

Contact: msds@scharlab.com
 Abbreviations and acronyms:
 ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 Globally Harmonised System of Classification and Labelling of Chemicals
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative
 Flam. Liq. 2: Flammable liquids – Category 2
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
 Eye Irrit.
 Context Abstract Service (Context Abstractor Service)
 PBT: Persistent and very Bioaccumulative
 Flam. Liq. 2: Flammable liquids – Category 2
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
 Eye Irrit.
 Eye Irrit.

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Annex: Exposure scenario 1

· 1 - Short title of the exposure scenario Exposure scenario: Ethanol absolute Industrial use

Sector of Use

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

Process category

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 condition

PROC4 Chemical production where opportunity for exposure arises

PROC5 Mixing or blending in batch processes

PROC7 Industrial spraying

PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities PROC10 Roller application or brushing

- PROC13 Treatment of articles by dipping and pouring
- PROC15 Use as laboratory reagent

· Environmental release category

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

Description of the activities / processes covered in the Exposure Scenario Process assistant

Cleaning agent

Solvent or component of a coating

Application methods included:

- Application with brush or roller.
- Bath treatment
- Spray
- Immersion
- Soaking
- Manual or automatic spraying
- · 2 Conditions of use

Duration and frequency

Continuous process Emission days (days/year): 300 8hrs (full working shift).

Environment

Local dissolution factor in fresh water: 10

Local dissolution factor in seawater: 100

Wastewater is to be treated by a municipal STP. Municipal STP discharge rate <2E3 m3/d.

Estimated substance removal from wastewater via domestic sewage treatment (%): 87

Physical parameters

The substance is a unique structure

Not hydrophobic

Liquid, vapor pressure 0.5 - 10 kPa at standardized temperature and pressure

Miscible in water

Practically non-toxic to aquatic organisms

Readily biodegradable

Low bioaccumulation potential

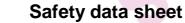
Physical state Fluid

Concentration of the substance in the mixture

It covers a percentage of substance in the product up to 100 % Raw material.

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Trade name: Ethanol 96% v/v, for analysis, ExpertQ®, ACS, Reag. Ph Eur (Contd. of page 8) · Used amount per time or activity 3000 tons per year 1000 kg per day Other operational conditions Other operational conditions affecting environmental exposure Source: ESVOC SpERC 4.3a.v1 Fraction released to air from process (initial release previous to MGR): 0.98 Fraction released to residual water from process (initial release previous to MGR): 0.01 Fraction released to ground from process (initial release previous to MGR): 0 Other operational conditions affecting worker exposure Assumes use at not more than 20 °C above ambient temperature, unless stated differently. Take precautionary measures against static discharge. Keep away from sources of ignition - No smoking. May be rolled or sprayed. Ensure adequate ventilation, especially in closed rooms. **Risk management measures** Worker protection Organisational protective measures Provide a good standard of controlled ventilation (10 to 15 air changes per hour) Surround with a dyke storage facilities to prevent contamination of soil and water in case of spillage Avoid the discharge to the environment, in line with the regulatory requirements Keep good industrial hygiene. Make sure that the workplace is well-lit and organised. Do not exceed normal working hours per worker. Technical protective measures Use product only in enclosed systems. Keep receptacles tightly sealed. Provide explosion-proof electrical equipment. Personal protective measures Tightly sealed goggles Avoid contact with the eyes and skin. Do not inhale gases / fumes / aerosols. Detailed measures on hand protection according to Safety Data Sheet, section 8. Measures for consumer protection Ensure adequate labelling. Environmental protection measures • Air Treat the emissions to the atmosphere to provide a removal efficiency typical of (%): 90 Water The product should not be released into water without pretreatment. An on-site wastewater treatment is recommended. The typical site treatment technology of wastewater achieves removal efficiency (%): (≥87) Size of sewage treatment plant (m3/d): 2000 In case of discharge to a domestic wastewater treatment plant, it is not necessary to treat the wastewater in situ. Soil No significant emissions to the terrestrial environment are expected. No special measures required. Notes In case of unintended release of the product: See section 6 of the Safety Data Sheet. **Disposal measures** Estimated amount has gone to waste, no more than: 5 % Type of treatment suitable for waste: incineration. Elimination efficiency (%): 99.98 Type of treatment suitable for waste: fuel for cement kilns. Elimination efficiency (%): 99.98 Treat as hazardous waste. Forward for special waste incineration in compliance with local legal provisions. Disposal must be made according to official regulations. Ensure that waste is collected and contained. (Contd. on page 10)

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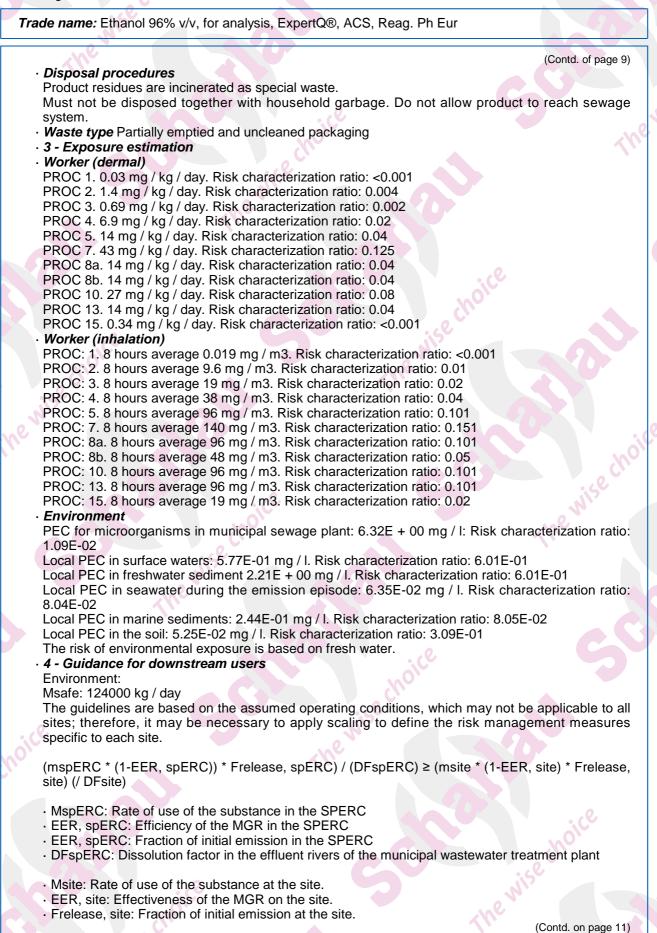
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• DFsite: Dissolution factor in the effluent rivers of the municipal wastewater treatment plant. If the escalation reveals the possibility of unsafe use (eg, CCR> 1), additional MGR or site-specific chemical safety assessment will be required. More information on scaling and control technologies in the SPERC data sheet (http://cefic.org/en/reach-for-industries-libraries.html)

Whether the downstream user acts within the scope of the Exposure Scenario can be verified based on the information in sections 1 to 8.

Whether the downstream user uses the substance / the mixture within the scope of the Exposure Scenario can be determined by means of a technical assessment.

For the risk assessment, the tools recommended by ECHA can be used.

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Health:

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Inhalation (vapor). No correction is required since an 8-hour exposure is assumed in all cases (evaluation in the worst case). No correction is required as it is assumed that all exposures correspond to substance concentrations of up to 100%.

Cutaneous: No correction is required as it is assumed that all exposures correspond to substance concentrations of up to 100%. No correction is required since an 8-hour exposure is assumed in all cases (evaluation in the worst case).

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Annex: Exposure scenario 2

• 1 - Short title of the exposure scenario Exposure scenario: Ethanol absolute Laboratory use

• Sector of Use

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

• Process category

PROC10 Roller application or brushing

PROC15 Use as laboratory reagent

- Environmental release category
- ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
 Description of the activities / processes covered in the Exposure Scenario
 Use of small quantities in laboratory environments, including material transfers and equipment

cleaning. • 2 - Conditions of use

Duration and frequency
 Continuous process
 Emission days (days/year): 365
 8hrs (full working shift).

Physical parameters

The substance is a unique structure Not hydrophobic

Liquid, vapor pressure 0.5 - 10 kPa at standardized temperature and pressure Miscible in water

Practically non-toxic to aquatic organisms

Readily biodegradable

Low bioaccumulation potential

- · Physical state Fluid
- Concentration of the substance in the mixture
- It covers a percentage of substance in the product up to 100 % Raw material.
- Used amount per time or activity 0.01 tons per year
- 0.0274 kg per day 🔨
- · Other operational conditions
- Other operational conditions affecting environmental exposure Source: ESVOC SpERC 8.17.v1

Fraction released to air from process (initial release previous to MGR): 0.5 Fraction released to residual water from process (initial release previous to MGR): 0.5 Fraction released to ground from process (initial release previous to MGR): 0

· Other operational conditions affecting worker exposure

Assumes use at not more than 20 °C above ambient temperature, unless stated differently.

Take precautionary measures against static discharge.

Keep away from sources of ignition - No smoking. May be rolled or sprayed.

Ensure adequate ventilation, especially in closed rooms.

· Risk management measures

· Worker protection

Organisational protective measures Avoid the discharge to the environment, in line with the regulatory requirements Keep good industrial hygiene. Make sure that the workplace is well-lit and organised.

Do not exceed normal working hours per worker.

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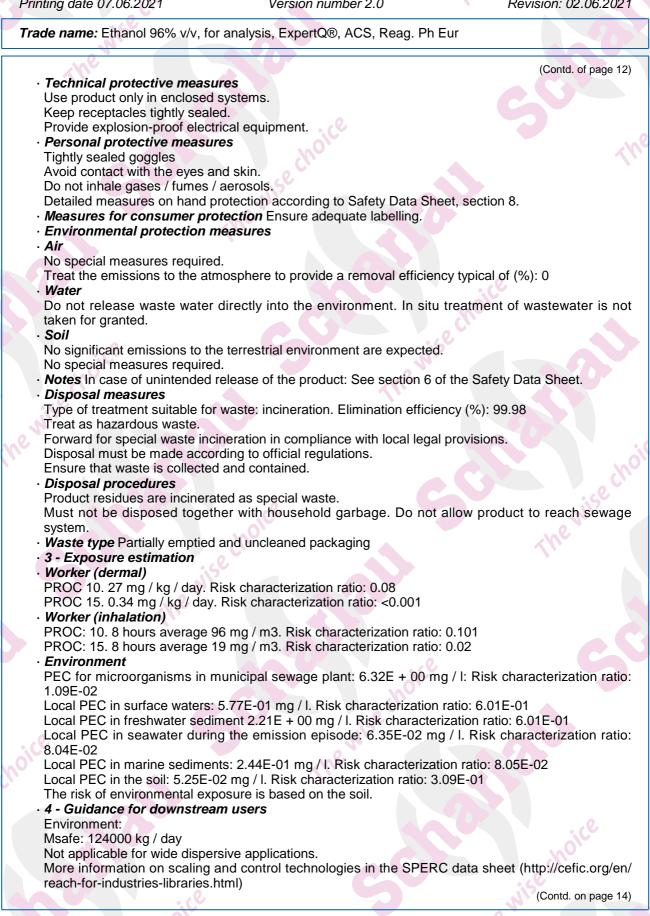
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Whether the downstream user acts within the scope of the Exposure Scenario can be verified based on the information in sections 1 to 8.

Whether the downstream user uses the substance / the mixture within the scope of the Exposure Scenario can be determined by means of a technical assessment.

For the risk assessment, the tools recommended by ECHA can be used. Health:

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Inhalation (vapor). No correction is required since an 8-hour exposure is assumed in all cases (evaluation in the worst case). No correction is required as it is assumed that all exposures correspond to substance concentrations of up to 100%.

Cutaneous: No correction is required as it is assumed that all exposures correspond to substance concentrations of up to 100%. No correction is required since an 8-hour exposure is assumed in all cases (evaluation in the worst case).

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