according to 1907/2006/EC, Article 31

Printing date 01.08.2022

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Version number 10.0

Revision: 01.08.2022

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

- · 1.1 Product identifier
- Trade name: Diethyl ether, 99,5%, anhydrous (max. 0,005% H2O), with molecular sieves, stabilized with approx. 7 ppm of 2,6-Di-tert-butyl-4-methylphenol (BHT)
- · Article number: ET0074
- · CAS Number: 60-29-7
- · EC number: 200-467-2
- · Index number: 603-022-00-4
- Registration number 01-2119535785-29-XXXX
- 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:

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. Lig. 1 H224 Extremely flammable liquid and vapour.

GHS07

Acute Tox. 4 H302 Harmful if swallowed. STOT SE 3 H336 May cause drowsiness or dizziness.

· 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

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(Contd. of page 1)

· Hazard pictograms GHS02 GHS07 Signal word Danger · Hazard statements H224 Extremely flammable liquid and vapour. H302 Harmful if swallowed. H336 May cause drowsiness or dizziness. Precautionary statements P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof [electrical/ventilating/lighting] equipment. P241 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P370+P378 In case of fire: Use for extinction: CO2, powder or water spray. P405 Store locked up. Dispose of contents/container in accordance with local/regional/national/ P501 international regulations. Additional information: EUH019 May form explosive peroxides. EUH066 Repeated exposure may cause skin dryness or cracking. · 2.3 Other hazards · Results of PBT and vPvB assessment

- · PBT: Not applicable.
- · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- · 3.1 Chemical characterisation: Substances
- CAS No. Description 60-29-7 diethyl ether
- Identification number(s)
- · EC number: 200-467-2
- · Index number: 603-022-00-4

SECTION 4: First aid measures

- 4.1 Description of first aid measures
- General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- · After inhalation:
- Supply fresh air; consult doctor in case of complaints.
- In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact:
- Generally the product does not irritate the skin.

Immediately remove contaminated clothing.

Immediately wash with water and soap and rinse thoroughly.

After eye contact:

Rinse opened eye for several minutes under running water.

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Call a doctor immediately.

- · After swallowing: Call for a doctor immediately.
- **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** Treat symptomatically.
- **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.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- · 5.2 Special hazards arising from the substance or mixture Highly flammable liquid and vapor.
- 5.3 Advice for firefighters
- Protective equipment:
- Wear fully protective suit.

Wear self-contained respiratory protective device. Cool exposed containers with water spray or mist.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
- Eliminate all sources of ignition.

Ensure adequate ventilation

Use respiratory protective device against the effects of fumes/dust/aerosol. Wear protective equipment. Keep unprotected persons away.

- 6.2 Environmental precautions:
 Do not allow product to reach sewage system or any water course.
 Inform respective authorities in case of seepage into water course or sewage system.
 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). Dispose contaminated material as waste according to item 13. 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
 Open and handle receptacle with care.
 Do not eat, drink or smoke during use.
 Wash hands after any manipulation.
 Ensure good ventilation/exhaustion at the workplace.
- Information about fire and explosion protection: Keep ignition sources away - Do not smoke. Use explosion-proof apparatus / fittings and spark-proof tools. Protect against electrostatic charges.

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(Contd. of page 3)

- 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Store in a cool, dry, well-ventilated place. Store only in unopened original receptacles. Store at temperatures not exceeding 25°C
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed. Do not seal receptacle gas tight.
 - Protect from heat and direct sunlight.

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:

60-29-7 diethyl ether

WEL Short-term value: 620 mg/m³, 200 ppm Long-term value: 310 mg/m³, 100 ppm

DNELs

DNEL worker, acute. Systematic effects: Inhalative - 616 mg/m3 DNEL worker, cronic. Systematic effects: Dermic - 44 mg/kg body weight DNEL worker, cronic. Systematic effects: Inhalative - 308 mg/m3 DNEL consumer, prolonged. Systematic effects:

- Inhalative: 54.5 mg/m3

- Dermic: 15.6 mg/kg body weight
- Oral: 15.6 mg/kg body weight

PNECs

- PNEC (Fresh water): 2 mg/L
- PNEC (Sea water): 0.2 mg/L
- PNEC (Freshwater sediments): 9.14 mg/kg
- PNEC (Seawater sediments): 0.914 mg/kg
- PNEC (Soil): 0.66 mg/kg
- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work.

Respiratory protection: Not required.

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.

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· Penetration time of glove material

(Contd. of page 4)

- 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: -116.3 °C Initial boiling point and boiling range: 35 °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
- Solubility in / Miscibility with water at 20 °C:
- · Partition coefficient: n-octanol/water:

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- Viscosity: Dynamic at 20 °C: Kinematic:
- · 9.2 Other information

Fluid Colourless Sweetish Not determined. Not determined.

-40 °C Not applicable. 170 °C Not determined. Not determined.

May form explosive peroxides.

1.7 Vol % 48 Vol %

587 hPa

0.71 g/cm³ Not determined. Not determined. Not determined.

64.9 g/l 0.0211893

> 0.235 mPas Not determined. No further relevant information available.

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SECTION 10: Stability and reactivity

• 10.1 Reactivity Highly flammable liquid and vapor.

Vapours may produce an explosive mixture with the air.

- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used and stored according to specifications.
- 10.3 Possibility of hazardous reactions
 Danger of forming explosive hydrogen-air mixture when stored in enclosed spaces.
 Possible formation of peroxide.
- **10.4 Conditions to avoid** Heat, open flames and sparks Exposure to light Radiation Exposure to air. Dust generation and accumulation.
- 10.5 Incompatible materials: Strong acids
 Strong oxidizing agents.
 O2
 H2O2
- Air
- **10.6 Hazardous decomposition products:** Hydrogen Methane Carbon monoxide

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
- Acute toxicity Harmful if swallowed.
- LD/LC50 values relevant for classification: Oral LD50 1215 mg/kg (rat) Inhalative LC50/4 h >20 mg/l (rat)
- Primary irritant effect:
 Skin correction //mitication
- *Skin corrosion/irritation* Skin - Rabbit Result: No irritation. May cause dermatitis.
- Serious eye damage/irritation Eyes - Rabbit Beauty Ne and irritation
- Result: No eye irritation Respiratory or skin sensitisation
- Sensibilizing test Mouse Result: negative Human experience
- Result: negative
- Additional toxicological information:
- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

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Germ cell mutagenicity DNA inhibition

Mutagenicity (mammal cell test): chromosome aberration.

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(Contd. of page 6)

Human lymphocytes Result: negative Mouse - Lymphoma cells Result: negative Ames test Salmonella typhimurium Result: negative

· Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by (IARC) International Agency of Research of Carcinogens.

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

· STOT-single exposure

Acute oral toxicity - Stomach/intestial disorders, risk of aspiration upon vomiting, pulmonary failure possible after aspiration of vomit.

May cause drowsiness or dizziness.

· 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:

Toxicity to fish

LC50 static test - Leuciscus idus (Golden orfe) - 2840 mg/L - 48 h

Toxicity to daphnia and other aquatic invertebrates

EC50 static test - Ceriodaphnia (Water flea) - 1380 mg/L - 48 h

Toxicity to algae

ErC50 static test - Desmodesmus subspicatus (green algae) - 100 mg/L - 72 h Toxicity to bacteria

EC50 static test - Activated sludge - 21000 mg/L - 3 min

NOEC static test - Activated sludge - 42 mg/L - 3 h

- · 12.2 Persistence and degradability Easily biodegradable
- 12.3 Bioaccumulative potential

Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected. log Pow ≤ 4

- · 12.4 Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water 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 be specially treated adhering to official regulations.

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(Contd. of page 7) Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging:

· Recommendation:

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

UN1155

3

No

3-07

Not applicable.

E

1155 DIETHYL ETHER (ETHYL ETHER)

DIETHYL ETHER (ETHYL ETHER)

3 Flammable liquids.

Warning: Flammable liquids.

SW2 Clear of living quarters.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

- **SECTION 14: Transport information**
- · 14.1 UN-Number
- · ADR, IMDG, IATA
- 14.2 UN proper shipping name
- · ADR
- · IMDG, IATA
- 14.3 Transport hazard class(es)
- · ADR, IMDG, IATA



Class

- · Label
- 14.4 Packing group
- · ADR, IMDG, IATA
- 14.5 Environmental hazards:
- Marine pollutant:
 14.6 Special precautions for user
- · Hazard identification number (Kemler code): 33
- · EMS Number:
- Stowage Category
- Stowage Code
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code
- Transport/Additional information:

· ADR

- · Limited quantities (LQ)
- Transport category
- Tunnel restriction code
 UN "Model Regulation":

- 0 1 D/E UN 1155 DIETHYL ETHER (ETHYL ETHER), 3, I
- **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 -
- Seveso category P5a FLAMMABLE LIQUIDS
- · Qualifying quantity (tonnes) for the application of lower-tier requirements 10 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 50 t

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- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 40
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment Annex II
- Substance is not listed.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has been carried out.

SECTION 16: Other information

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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.

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: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation 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 GHS: Globally Harmonised System of Classification and Labelling of Chemicals wisecho EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 1: Flammable liquids - Category 1 Acute Tox. 4: Acute toxicity - Category 4 STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 (Contd. on page 10)

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Annex: Exposure scenario 1

- · 1 Short title of the exposure scenario Industrial use
- · Sector of Use
 - SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
- SU8 Manufacture of bulk, large scale chemicals (including petroleum products)
- SU9 Manufacture of fine chemicals
- 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

PROC8aTransfer of substance or mixture (charging and discharging) at non-dedicated facilitiesPROC8bTransfer of substance or mixture (charging and discharging) at dedicated facilitiesPROC15Use as laboratory reagent

· Environmental release category

ERC1 Manufacture of the substance

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

- See section 1 of the annex to the Safety Data Sheet.
- 2 Conditions of use
- **Duration and frequency** Emission days (days/year): 300 8hrs (full working shift).
- · Physical parameters
- · Physical state Fluid
- Concentration of the substance in the mixture Raw material.
- It covers a percentage of substance in the product up to 100 %
- Other operational conditions
- · Other operational conditions affecting environmental exposure No special measures required.
- Other operational conditions affecting worker exposure Take precautionary measures against static discharge.
- Keep away from sources of ignition No smoking.
- Other operational conditions affecting consumer exposure during the use of the product Not applicable.
- Risk management measures
- · Worker protection
- · Organisational protective measures
- Handle the substance within a closed system.
- Provide a good standard of controlled ventilation (10 to 15 air changes per hour) Ensure that the working area is organised, well lit and ventilated, with enough space to handle
- spilled product. • **Technical protective measures**
- Provide explosion-proof electrical equipment.
- Ensure that suitable extractors are available on processing machines
- Only handle and refill product in closed systems.
- Store in cool, dry place in tightly closed receptacles.
- Use product only in enclosed systems.

Drain the system before performing running operations or maintenance of equipment.

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(Contd. of page 10) · Personal protective measures Do not inhale gases / fumes / aerosols. 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 · Measures for consumer protection Ensure adequate labelling. Environmental protection measures · Water In case of discharge to a domestic wastewater treatment plant, it is not necessary to treat the wastewater in situ. Avoid spilling the substance without dissolving residual water in situ or recovering it from it. Soil No significant emissions to the terrestrial environment are expected. Disposal measures Disposal must be made according to official regulations. Ensure that waste is collected and contained. Disposal procedures Must not be disposed together with household garbage. Do not allow product to reach sewage system. Waste type Partially emptied and uncleaned packaging 3 - Exposure estimation To estimate exposures in the workplace has been used ECETOC TRA tool unless otherwise indicated. Worker (dermal) Detailed information on the exposure estimation can be found at http://www.ecetoc.org/tra. PROC1: 0.34 mg/kg/day, RCR 0.01 PROC1: 1.37 mg/kg/day, RCR 0.03 PROC2: 1.37 mg/kg/day, RCR 0.03 PROC3: 0.34 mg/kg/day, RCR 0.01 PROC4: 6.86 mg/kg/day, RCR 0.16 PROC8a: 13.71 mg/kg/day, RCR 0.31 PROC8b: 6.86 mg/kg/day, RCR 0.16 PROC8b: 0.69 mg/kg/day, RCR 0.02 PROC15: 0.34 mg/kg/day, RCR 0.01 Worker (inhalation) Detailed information on the exposure estimation can be found at http://www.ecetoc.org/tra. PROC1: 0.01 ppm, RCR 0.00 PROC1: 10 ppm, RCR 0.10 PROC2: 50 ppm, RCR 0.49 PROC2: 10 ppm, RCR 0.10 PROC3: 100 ppm, RCR 0.98 PROC4: 30 ppm, RCR 0.30 PROC8a: 50 ppm, RCR 0.49 PROC8b: 45 ppm, RCR 0.44 PROC8b: 15 ppm, RCR 0.15 PROC15: 50 ppm, RCR 0.49 Environment ERC1: Fresh water 0.0028 mg/L, RCR 0.001381 ECR1: Freshwater sediment 0.0126 mg/kg dwt, RCR 0.001383 ERC1: Sea water 0.0002 g/L, RCR 0.001194 ERC1: Sea sediment 0.0010 mg/kg dwt, RCR 0.001201 ERC1: Soil 0.0021 mg/kg dwt, RCR 0.003136 ERC4: Fresh water 0.0028 mg/L, RCR 0.001381 ERC4: Freshwater sediment 0.0126 mg/kg dwt, RCR 0.001383 (Contd. on page 12)



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ERC4: Sea water 0.0002 mg/L, RCR 0.001194 ERC4: Sea sediment 0.0010 mg/kg dwt, RCR 0.001201 ERC4: Soil 0.0021 mg/kg dwt, RCR 0.003136

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· Consumer The exposure estimation was carried out in accordance with ECETOC TRA.

• **4 - Guidance for downstream users** Environment and Health: Used the model ECETOC TRA. If other measures for risk management / operating conditions are adopted, then users should ensure that these risks are at least at equivalent levels.

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(Contd. of page 12)

Annex: Exposure scenario 2

- · 1 Short title of the exposure scenario Laboratory use
- · Sector of Use
- SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites Process category
- PROC10 Roller application or brushing PROC15 Use as laboratory reagent
- · Environmental release category
- ERC2 Formulation into mixture
- 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
- See section 1 of the annex to the Safety Data Sheet.
- · 2 Conditions of use
- Duration and frequency Emission days (days/year): 20 8hrs (full working shift).
- Physical parameters
- Physical state Fluid
- Concentration of the substance in the mixture Raw material.

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

- Other operational conditions
- Other operational conditions affecting environmental exposure No special measures required.

Other operational conditions affecting worker exposure Take precautionary measures against static discharge.

Keep away from sources of ignition - No smoking.

- · Other operational conditions affecting consumer exposure during the use of the product Not applicable.
- · Risk management measures

Worker protection

· Organisational protective measures

Provide a good standard of controlled ventilation (10 to 15 air changes per hour)

Ensure that the working area is organised, well lit and ventilated, with enough space to handle spilled product.

Ensure that activities are executed by specialists or authorised personnel only.

Technical protective measures Provide explosion-proof electrical equipment.

Ensure that suitable extractors are available on processing machines

- · Personal protective measures Wear suitable gloves (tested to EN374)
- · Measures for consumer protection Ensure adequate labelling.
- · Environmental protection measures
- Air Volatile components subject to emission controls in the atmosphere.

Water

In case of discharge to a domestic wastewater treatment plant, it is not necessary to treat the wastewater in situ.

Avoid spilling the substance without dissolving residual water in situ or recovering it from it.

· Soil No significant emissions to the terrestrial environment are expected.

· Disposal measures

Disposal must be made according to official regulations.

Ensure that waste is collected and contained.

- **Disposal procedures**
- Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- · Waste type Partially emptied and uncleaned packaging

(Contd. on page 14)

according to 1907/2006/EC, Article 31

Printing date 01.08.2022

Scharlau

Version number 10.0

Revision: 01.08.2022

Trade name: Diethyl ether, 99,5%, anhydrous (max. 0,005% H2O), with molecular sieves, stabilized with approx. 7 ppm of 2,6-Di-tert-butyl-4-methylphenol (BHT)

(Contd. of page 13)

• 3 - Exposure estimation
 To estimate exposures in the workplace has been used ECETOC TRA tool unless otherwise
 indicated.

 • Worker (dermal)

Detailed information on the exposure estimation can be found at http://www.ecetoc.org/tra. PROC10: 5.49 mg/kg/day, RCR 0.12

PROC15: 0.34 mg/kg/day, RCR 0.01 • Worker (inhalation)

Detailed information on the exposure estimation can be found at http://www.ecetoc.org/tra. PROC10: 75 ppm, RCR 0.74 PROC15: 50 ppm, RCR 0.49

Environment

- ERC2: Fresh water 0.604 mg/L, RCR 0.030202
- ECR2: Freshwater sediment 0.2765 mg/kg dwt, RCR 0.30250
- ERC2: Sea water 0.0060 g/L, RCR 0.030015

ERC2: Sea sediment 0.0275 mg/kg dwt, RCR 0.030195

ERC2: Soil 0.0042 mg/kg dwt, RCR 0.006297

ERC4: Fresh water 0.0604 mg/L, RCR 0.030202

ERC4: Freshwater sediment 0.2765 mg/kg dwt, RCR 0.030250

ERC4: Sea water 0.0060 mg/L, RCR 0.030015

- ERC4: Sea sediment 0.0275 mg/kg dwt, RCR 0.030195
- ERC4: Soil 0.0042 mg/kg dwt, RCR 0.006297

· Consumer The exposure estimation was carried out in accordance with ECETOC TRA.

4 - Guidance for downstream users

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Environment and Health: Used the model ECETOC TRA. If other measures for risk management / operating conditions are adopted, then users should ensure that these risks are at least at equivalent levels.

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.

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