

according to 1907/2006/EC, Article 31 (REACH)

Printing date 30.07.2018

Revision: 30.10.2017

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

- · 1.1 Product identifier
- **Trade name:** Diisopropyl ether, synthesis grade, stabilized with approx. 10 ppm of 2,6-Di-tert-butyl-4-methylphen
- · Article number: ET0085
- · CAS Number:
- 108-20-3 • EC number:
- 203-560-6
- Index number: 603-045-00-X
- **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



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



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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· Hazard pictog	rams	(Conta. of page 1
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	Contraction of the second seco	
GHS02 GHS	07	
· Signal word D	anger	
Hazard staten		
	mmable liquid and vapour.	
H336 May caus	e drowsiness or dizziness.	
· Precautionary		
P210	Keep away from heat, hot surfaces, sparks sources. No smoking.	, open flames and other ignition
P241	Use explosion-proof electrical/ventilating/lighti	ng equipment.
P261	Avoid breathing dust/fume/gas/mist/vapours/s	
P303+P361+P3	353 IF ON SKIN (or hair): Take off immediately all	contaminated clothing. Rinse skin
	with water/shower.	
P405	Store locked up.	
P501	Dispose of contents/container in accordant	nce with local/regional/national
Additional int	international regulations.	
Additional info		
	orm explosive peroxides. Ited exposure may cause skin dryness or cracking	
· 2.3 Other haza		J.
	and vPvB assessment	
• PBT: Not appli		
• vPvB: Not app		

SECTION 3: Composition/information on ingredients

- · 3.1 Chemical characterisation: Substances
- · CAS No. Description
- 108-20-3 diisopropyl ether
- Identification number(s)
- EC number: 203-560-6
- · Index number: 603-045-00-X

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- 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.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · 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: 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).
 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.

- 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

· Additional information about design of technical facilities: No further data; see item 7.

- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace:

108-20-3 diisopropyl ether

WEL Short-term value: 1310 mg/m³, 310 ppm Long-term value: 1060 mg/m³, 250 ppm

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Revision: 30.10.2017 Printing date 30.07.2018 Trade name: Diisopropyl ether, synthesis grade, stabilized with approx. 10 ppm of 2,6-Di-tert-butyl-4methylphen (Contd. of page 3) · 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. · 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. 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

Fluid

Colourless

Not determined.

Not determined.

Not applicable.

Not determined.

Not determined.

May form explosive peroxides.

Ether-like

-28 °C

405 °C

1 Vol %

21 Vol % 180 hPa

- · Appearance:
- Form:
- Colour:
- · Odour:
- · Odour threshold:
- · pH-value:
- Change in condition Melting point/freezing point: -86 °C Initial boiling point and boiling range: 68 °C
- · Flash point:
- Flammability (solid, gas):
- · Ignition temperature:
- · Decomposition temperature:
- · Auto-ignition temperature:
- · Explosive properties:
- Explosion limits: Lower: Upper:
- Vapour pressure at 20 °C:

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meinvionen	ade, stabilized with approx. 10 ppm of 2,6-Di-tert-butyl-
methylphen	
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· Density at 20 °C:	0.72 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
water at 20 °C:	12 g/l
Partition coefficient: n-octanol/water:	Not determined.
	Not determined.
· Viscosity:	0.270 mBoo
Dynamic at 20 °C: Kinematic:	0.379 mPas Not determined.
• 9.2 Other information	No further relevant information available.
	100.
SECTION 10: Stability and react	ivity getting the second secon
· 10.1 Reactivity No further relevant inform	nation available.
· 10.2 Chemical stability	
Thermal decomposition / conditions to	be avoided:
No decomposition if used according to sp	
 10.3 Possibility of hazardous reaction 	s No dangerous reactions known
	want information available
· 10.4 Conditions to avoid No further rele	
• 10.4 Conditions to avoid No further rele • 10.5 Incompatible materials: No further	relevant information available. cts: No dangerous decomposition products known.
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 10.4 Conditions to avoid No further releted 10.5 Incompatible materials: No further 10.6 Hazardous decomposition productions SECTION 11: Toxicological info 11.1 Information on toxicological effection Acute toxicity Based on available data, LD/LC50 values relevant for classification Oral LD50 8,470 mg/kg (rat) Dermal LD50 20,000 mg/kg (rabbit) Inhalative LC50/4 h 162 mg/l (rat) Primary irritant effect: Skin corrosion/irritation Based on available data Serious eye damage/irritation Based on Respiratory or skin sensitisation Based CMR effects (carcinogenity, mutagenii Germ cell mutagenicity Based on available data STOT-single exposure May cause drowsiness or dizziness. STOT-repeated exposure Based on available data Aspiration hazard Based on available data 	relevant information available. cts: No dangerous decomposition products known. rmation cts the classification criteria are not met. tion:) lable data, the classification criteria are not met. n available data, the classification criteria are not met. d on available data, the classification criteria are not met. d on available data, the classification criteria are not met. d on available data, the classification criteria are not met. d on available data, the classification criteria are not met. d ata, the classification criteria are not met. a, the classification criteria are not met. le data, the classification criteria are not met. ailable data, the classification criteria are not met. ata, the classification criteria are not met.
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- · 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) (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 not be disposed together with household garbage. Do not allow product to reach sewage system.

UN1159

1159 DIISOPROPYL ETHER

DIISOPROPYL ETHER

- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

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	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.
Danger code (Kemler):	33
· EMS Number:	3-02
Stowage Category	E
Stowage Code	SW2 Clear of living quarters.
14.7 Transport in bulk according to Annex	11
of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR	
Limited quantities (LQ)	1L 💦

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Trade name: Diisopropyl ether, synthesis grade, stabilized with approx. 10 ppm of 2,6-Di-tert-t	utyl-4-
methylphen	

2

- Transport category
- Tunnel restriction code
- · UN "Model Regulation":

D/E UN 1159 DIISOPROPYL ETHER, 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 Substance is not listed.
- Seveso category P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 40
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not 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.

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 européen sur le transport 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
- EINECS: European Inventory of Existing Commercial Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Flam. Liq. 2: Flammable liquids Category 2 STOT SE 3: Specific target organ toxicity (single exposure) Category 3