



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 12.11.2019

Version: 5

Revision: 12.11.2019

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

1.1 Product identifier

Trade name: **Para-DiethylBenzene**

Synonyms:

p-Diethylbenzene, Para Diethylbenzene, ParaDiEthylBenzene, 1,4-Diethylbenzol, 1,4-diethylbenzene, PDEB, P-DEB

CAS Number:

105-05-5

EC number:

203-265-2 (EC name: 1,4-diethylbenzene)

Registration number 01-2119969516-24-0000

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

Refer to Exposure Scenarios for covered SU, PROC, PC, AC and ERC.

Application of the substance / the mixture Chemicals for synthesis

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Taiwan SM Corp., Kaohsiung plant
NO.7, Industrial 1st Rd, Lin-Yuan
Kaohsiung County 83203
Taiwan, R.O.C.

Only Representative

TÜV SÜD Iberia, S.A.U.
Ronda Can Fatjó 13
08290 Cerdanyola del Vallès (Barcelona)
Spain
e-mail: reach.es@tuv-sud.es

Further information obtainable from: reach.es@tuv-sud.es

1.4 Emergency telephone number:

Manufacturer:
Phone: 886-7-641451 Ext.221 (on duty); 886-7-6414517 (off duty)
Fax: 886-7-6423828

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS08 health hazard

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

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 substance is classified and labelled according to the CLP regulation.

· Hazard pictograms



GHS02 GHS07 GHS08 GHS09

· Signal word Danger

· Hazard statements

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H304 May be fatal if swallowed and enters airways.

H411 Toxic to aquatic life with long lasting effects.

· Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof [electrical/ventilating/lighting] equipment.

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

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.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

· **PBT:** The substance does not meet the PBT criteria (not PBT) according to (EC) 1907/2006, Annex XIII

· **vPvB:** The substance does not meet the vPvB criteria (not vPvB) according to (EC) 1907/2006, Annex XIII

SECTION 3: Composition/information on ingredients

· 3.1 Chemical characterisation: Substances

· CAS No.

105-05-5

· **CAS Description:** Benzene, 1,4-diethylbenzene-

· **Identification number(s)**

· **EC number:** 203-265-2 (EC name: 1,4-diethylbenzene)

· **Additional information:** 1,4-diethylbenzene, wt% by weight: ≥ 99.0%

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· General information:

Take affected persons out into the fresh air.

Immediately remove any clothing soiled by the product.

Do not leave affected persons unattended.

Involve doctor immediately.

Show this Safety Data Sheet to the doctor in attendance.

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- **After inhalation:**
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
In case of unconsciousness place patient stably in side position for transportation.
In the event of cardiac arrest (no pulse), apply cardiopulmonary resuscitation.
- **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
If symptoms develop, seek medical attention.
- **After eye contact:**
Immediately flush eyes with copious amounts of water for at least 15 minutes.
Seek medical treatment.
If eye irritation, pain, swelling, lachrimation or photophobia persists, patient should be referred to a specialist health care facility.
- **After swallowing:**
Do not induce vomiting; call for medical help immediately.
Rinse out mouth and then drink plenty of water.
Do not give anything by mouth to an unconscious person.
- **4.2 Most important symptoms and effects, both acute and delayed**
Irritation of the respiratory tract.
Skin: irritation, reddening.
Causes eye irritation. This irritation can result in redness and swelling of the eyes.
Central nervous system depression.
- **4.3 Indication of any immediate medical attention and special treatment needed**
In case of ingestion, induced enema is not recommended.
If determined necessary (and under qualified medical supervision), the stomach should be emptied by gastric lavage with the airway protected by endotracheal intubation.
If swallowed or in case of vomiting, danger of entering the lungs.
Medical supervision for at least 48 hours.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
Foam
Carbon dioxide
Extinguishing powder. Do not use water.
Water spray or fog only for large fires.
- **For safety reasons unsuitable extinguishing agents:**
Water with full jet
Simultaneous use of foam and water on the same surface (water destroys foam).
- **5.2 Special hazards arising from the substance or mixture**
The vapour is heavier than air, spreads along the ground and distant ignition is possible.
Emits toxic fumes under fire conditions.
Can form explosive gas-air mixtures.
Carbon monoxide (CO)
- **5.3 Advice for firefighters**
- **Protective equipment:**
Wear protective clothing and safety glasses.
Wear self-contained breathing apparatus with facepiece.
- **Additional information**
Cool fire-exposed containers with water spray from a protected location.
Cool endangered receptacles with water spray.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Avoid runoff to sewers, waterway or drain.

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Possibility of re-ignition.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Keep people at a distance and stay on the windward side.

Avoid contact with skin, eyes and clothes.

Keep away from ignition sources.

· 6.2 Environmental precautions:

Prevent further leakage or spillage if safe to do so.

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

Do not let product enter drains

Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

· 6.3 Methods and material for containment and cleaning up:

Ensure adequate ventilation.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Keep in suitable, closed containers for disposal.

Use non-sparking tools.

* Large spillage:

Stop leak if you can do it without risk.

For large amounts pump off the product.

Large spillages may be cautiously covered with foam, if available, to limit fire risk. Do not use direct jets.

Transfer the recovered product and other contaminated materials to suitable tanks or containers for recycling, recovery or disposal of materials safely.

Clean the affected area carefully; suitable cleaners are:

Warm water

· 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

Keep away from heat and direct sunlight.

Ensure good ventilation/exhaustion at the workplace.

Avoid free-fall and splashing.

Do not use compressed air for filling, discharging or handling.

Avoid handling that can create static electrical discharges.

· Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Prevent electrostatic charge.

The vapour is heavier than air. Beware of accumulation in pits and confined spaces.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by storerooms and receptacles:

Suitable material for receptacles and pipes: Iron-containing alloys.

Suitable material for receptacles and pipes: steel or stainless steel.

Suitable material for receptacles and pipes: Iron.

Openings in the system should terminate outdoors and protected by a screen.

Keep container tightly closed and properly labelled.

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in a cool place.

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Store outdoors.

Indoor storage: Provide good natural ventilation or mechanical exhaustion ventilation.

- **Information about storage in common storage facility:**

Store away from oxidising agents.

Do not store together with acids.

Do not store together with alkalis (caustic solutions).

- **Further information about storage conditions:**

Keep container tightly sealed.

Open receptacle only under localised extractor facilities.

Avoid container damage while handling and storing.

Keep containers properly labelled.

Cleaning, inspection and maintenance of the internal structure of storage tanks must be done only by qualified personnel.

- **Maximum storage temperature:** Ambient

- **7.3 Specific end use(s)** Refer to Exposure Scenarios.

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:**

Check relevant TLV at each EU country.

Generally considered maximum allowable concentration: 200 ppm / 8 hour working exposure.

Para-DiethylBenzene

AGW (Germany)	Long-term value: 11 mg/m ³ , 2 ppm 2(II);AGS, H, Y
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- **DNELs**

Oral	DNEL systemic effects, long-term	0.25 mg/kg bw/day (population)
Dermal	DNEL systemic effects, long-term	2.25 mg/kg bw/day (population)
		3.75 mg/kg bw/day (worker)
Inhalative	DNEL systemic effects, short-term	2.25 mg/kg bw/day (population)
	DNEL systemic effects, long-term	2.61 mg/m ³ (population)
		8.82 mg/m ³ (worker)
	DNEL systemic effects, short-term	2.61 mg/m ³ (population)
		8.82 mg/m ³ (worker)

- **PNECs**

PNEC water (freshwater)	0.0018 mg/l (general)
PNEC water (marine water)	0.0002 mg/l (general)
PNEC sediment (freshwater)	0.127 mg/kg sed dw (general)
PNEC sediment (marine water)	0.0127 mg/kg sed dw (general)
PNEC soil	0.0145 mg/kg soil dw (general)
PNEC STP	2.5 mg/l (general)
PNEC water (int releases)	0.018 mg/l (general)

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Avoid contact with the eyes and skin.

- **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Use multi-purpose combination (US) or type ABEK (EN 14387) respiratory cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

- **Material of gloves**

Neoprene 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

EN 166 or equivalent

- **Body protection:**

Use protective suit.

Boots

Apron

- **Apron** made out of rubber.

- **Protective suit** made out of rubber.

- **Limitation and supervision of exposure into the environment**

Do not apply industrial sludge to natural soils.

- **Risk management measures** Refer to exposure scenarios.

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form:	Liquid
Colour:	Colourless
Smell:	Aromatic
Olfactory threshold:	Not determined.

- **pH-value:** Not determined

- **Change in condition**

Melting point/freezing point:	-42.8 °C (literature)
Initial boiling point and boiling range:	183.3 °C (literature)

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· Flash point:	55 - 57 °C (closed cup method) Flammable liquids and vapours.
· Ignition temperature:	430 °C (literature)
· Decomposition temperature:	Not determined
· Auto-ignition temperature:	Not determined
· Explosive properties:	Based on its structure, the product does not present an explosion hazard.
· Explosion limits: Lower: Upper:	0.7 Vol % 6 Vol %
· Oxidising properties	The substance is not capable of reacting exothermically with combustible materials on the basis of the chemical structure.
· Vapour pressure at 20 °C:	1.3 hPa (literature)
· Density at 20 °C: · Vapour density · Evaporation rate · Solubility in / Miscibility with: water at 25 °C:	0.866/20°C g/cm ³ (ASTM D3505) Not determined Not applicable 17-31 mg/L (literature)
· Partition coefficient: n-octanol/water at 25 °C	4.06 log POW (OECD Guideline 107)
· Viscosity: Dynamic at 20 °C: Kinematic at 20 °C: · 9.2 Other information · Surface tension · Dissociation constant	3.6 mPas (literature) 4.1 mm ² /s (calculated) - Data from literature. 3.6 mN/m (20 °C) Based on structure, not expected to dissociate.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability** The product is stable under ordinary conditions.
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
Vapor is explosive when exposed to strong oxidising agent.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid**
Contact with incompatible materials
Keep away from heat, sparks and open flames.
- **10.5 Incompatible materials:** Oxidizing agents, acids.
- **10.6 Hazardous decomposition products:**
Carbon monoxide
Carbon dioxide

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on the available data, the classification criteria are not met.

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· LD/LC50 values relevant for classification:

Oral	LD50	>2000 mg/kg bw (rat) (OECD Guideline 401)
Inhalative	LC50/4h	>5000 mg/m ³ (rat) (OECD Guideline 403)

· Primary irritant effect:
· Skin corrosion/irritation

EU method B.46 (In vitro skin irritation: reconstructed human epidermis model test)
Causes skin irritation.

· Serious eye damage/irritation

ICCVAM-Recommended Test Method Protocol: Hen's Egg Test - Chorioallantoic Membrane (HET-CAM)
Test method, published 2010.
Causes serious eye irritation.

· **respiratory tract** Inhalation of the substance may cause irritation of the respiratory tract.

· Respiratory or skin sensitisation

OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay).
Not a skin sensitizer.
Respiratory sensitization: no data available.

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

· **Toxicokinetics, metabolism and distribution** Bioaccumulation potential: no bioaccumulation potential.

· Repeated dose toxicity

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

Oral	NOAEL Rep. Dose	30 mg/kg bw/d (rat) (OECD Guideline 422)
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· Germ cell mutagenicity

Negative results in tests:

Equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay)

Equivalent or similar to OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)

Equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)

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

· **Carcinogenicity** Information not available.

· Reproductive toxicity

Based on the available studies a non-classification is justified for reproductive toxicity.

Oral	NOAEL (teratogenicity)	750 mg/kg (rat) (OECD Guideline 422)
	NOAEL (maternal tox)	750 mg/kg (rat) (OECD Guideline 422)

· **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

May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

· 12.1 Toxicity
· Aquatic toxicity:

EC50/24h (static)	32 mg/l (daphnia) (OECD Guideline 202)
EC50/72h	29 mg/l (Algae) (OECD Guideline 201)
EC50/96h (static)	1.8 mg/l (Fish) (OECD Guideline 203)
NOEC	0.419 mg/l (Fish) (QSAR (2010), Fish early-life stage toxicity)
	250 mg/l (Micro-organisms) (OECD Guideline 209)
NOEC/21d	0.93 mg/l (daphnia) (OECD Guideline 211)

· 12.2 Persistence and degradability

No hydrolysis observed at pH 4, 7 and 9 (OECD 111). As a consequence the substance is not expected to undergo hydrolysis in the environment.

Half-life in air: 15.835 h (Degradation rate constant with OH radicals: 0.00000000008 cm³ /molecule / day, AOPWIN)

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Half-life in water (photolysis): 9 yr (estimated by calculation)

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Half-life in water: 38 d (QSAR model for persistence: biotic degradation in water)

Half-life in sediment: 228 d (QSAR model for Persistence: Biotic degradation in sediment)

Half-life in soil: 70 d (QSAR model for Persistence: Biotic degradation in soil)

Persistence in relevant media (water, sediment and soil) has been estimated with validated (Q)SAR methods. The predictions show that the substance could be considered very persistent in sediment, but not persistent in water and soil.

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Not readily biodegradable.

OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test), activated sludge: -1.6 %

Degradation of test substance after 28 d (O₂ consumption)

· 12.3 Bioaccumulative potential

Due to the distribution coefficient n-octanol/water an accumulation in organisms is possible.

log Kow: 4.06

BCF: 629 L/kg ww or dimensionless (OECD Guideline 305)

· 12.4 Mobility in soil

Adsorption to solid phase is possible.

Koc has been calculated using the computer program KOCWIN (v.2.00). It is predicted that the substance has a Koc of 670 L/kg at 20 °C.

log Koc: 2.83

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The substance is miscible in water and is expected to be mobile within the environment. If accidentally released to soil or water, some volatilisation to the atmosphere can be anticipated.

Henry's law constant (H): 0,00755 (in Pa m³/mol)

· Additional ecological information:

· General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

· 12.5 Results of PBT and vPvB assessment

· **PBT:** The substance does not fulfill the PBT criteria (not PBT)

· **vPvB:** The substance does not fulfill the vPvB criteria (not vPvB)

· **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Soak up with sand, earth, or other noncombustible absorbent and transfer to a covered metal container for disposal.

Contain and dispose of waste according to local regulations.

Waste is hazardous. It must be disposed as if it was the product.

· Uncleaned packaging:

· **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

· 14.1 UN-Number

· **ADR, IMDG, IATA**

UN2049

· 14.2 UN proper shipping name

· **ADR**

2049 DIETHYLBENZENE, ENVIRONMENTALLY HAZARDOUS

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· IMDG · IATA	DIETHYLBENZENE, MARINE POLLUTANT DIETHYLBENZENE
· 14.3 Transport hazard class(es) · ADR, IMDG	
 	
· Class · Label	3 Flammable liquids. 3
· IATA	
	
· Class · Label	3 Flammable liquids. 3
· 14.4 Packing group · ADR, IMDG, IATA	III
· 14.5 Environmental hazards: · Marine pollutant: · Special marking (ADR):	Environmentally hazardous substance, liquid; Marine Pollutant Symbol (fish and tree) Symbol (fish and tree)
· 14.6 Special precautions for user · Danger code (Kemler): · EMS Number: · Stowage Category	Warning: Flammable liquids. 30 F-E,S-D A
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR · Excepted quantities (EQ): · Limited quantities (LQ) · Excepted quantities (EQ)	E1 5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· Transport category · Tunnel restriction code	3 D/E
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 2049 DIETHYLBENZENE, 3, III, ENVIRONMENTALLY HAZARDOUS

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SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Inventory - United States - Toxic Substances Control Act (TSCA) ACTIVE**
- **OECD - List of High Production Volume Chemicals** Substance is not listed.
- **Canada - Selected Substances Identified as Priority for Action** No information
- **Inventory - Canada - Domestic Substances List (DSL)** Substance is not listed
- **Philippines Inventory of Chemicals and Chemical Substances** Substance is listed.
- **Australian Inventory of Chemical Substances** Substance is not listed.
- **Inventory - Korea - Existing and Evaluated Chemical Substances KE-10437**
- **New Zealand Inventory of Chemicals** Substance is listed.
- **TCSI - Taiwan Chemical Substance Inventory** Substance is listed.
- **Japan Existing and New Chemical Substances (ENCS) 3-13, 3-60**
- **Labelling according to Regulation (EC) No 1272/2008**
The substance is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS02 GHS07 GHS08 GHS09

- **Signal word** Danger
- **Hazard statements**
H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H304 May be fatal if swallowed and enters airways.
H411 Toxic to aquatic life with long lasting effects.
- **Precautionary statements**
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof [electrical/ventilating/lighting] equipment.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
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.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Seveso category**
E2 Hazardous to the Aquatic Environment
P5c FLAMMABLE LIQUIDS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 40
- **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.

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- **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
 NOAEL: Non Observed Adverse Effect Level
 LOAEL: Lowest Observed Adverse Effect Level
 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)
 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. 3: Flammable liquids – Category 3
 Skin Irrit. 2: Skin corrosion/irritation – Category 2
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
 Asp. Tox. 1: Aspiration hazard – Category 1
 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

- **Sources**

REACH Registration data.
 Data sheet based on the information provided by Manufacturer.

- *** Data compared to the previous version altered.**

Version 1: 31 / 08 / 2012
 Original version
 Version 2: 21 / 06 / 2013
 First issue according to Regulation 1907/2006 (EC), Article 31.
 Update including data from REACH Registration.
 Version 3: 06 / 08 / 2015
 Change of Only Representative.
 Version 4: 10 / 04 / 2017
 Update of Only Representative data.
 Version 5: 12 / 11 / 2019
 General review as EU version.
 Update of the address of the Only Representative.
 Additional information in Section 8 regarding limits of exposure at the workplace.

EU

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Safety data sheet
according to 1907/2006/EC, Article 31

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