	SAFETY DATA SHEET	Page : 1 / 16
	Vaeliquid	Revision nr : 4.0
		Issue date : 31/03/2022
		Supersedes : 05/02/2019

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

1.1. Product identifier

Product form : Mixture
Trade name : Vaeliquid
Product group : Trade product

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

1.2.1. Relevant identified uses

Main use category : Industrial use
Use of the substance/mixture : Industrial use
Further information: see technical data sheet. TDS Vaeliquid

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Imperbel N.V./S.A
Guido Gezellestraat 123
1654 Beersel (Huizingen), Belgium
Tel.+32 2 334 87 00
Fax:+32 2 378 14 69
info@derbigum.com
www.derbigum.be

1.4. Emergency telephone number

Emergency number : + 32 3 575 55 55 (24h/24h)

Country	Official advisory body	Address	Emergency number
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)


SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flam. Liq. 2 H225
Acute Tox. 4 (Oral) H302
Eye Irrit. 2 H319
Carc. 2 H351
STOT SE 3 H336
STOT SE 3 H335

Full text of H- and EUH-statements: see section 16

	SAFETY DATA SHEET	Page : 2 / 16
		Revision nr : 4.0
	Vaeliquid	Issue date : 31/03/2022
		Supersedes : 05/02/2019

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



Signal word :

Danger

Contains :

Tetrahydrofuran

Hazard statements (CLP) :

H225 - Highly flammable liquid and vapour.
H302 - Harmful if swallowed.
H319 - Causes serious eye irritation.
H335 - May cause respiratory irritation.
H336 - May cause drowsiness or dizziness.
H351 - Suspected of causing cancer.

Precautionary statements (CLP) :

P201 - Obtain special instructions before use.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 - Avoid breathing fume, vapours, spray, mist.
P280 - Wear eye protection, face protection, protective clothing, protective gloves.
P308+P313 - IF exposed or concerned: Get medical advice/attention.
P312 - Call a POISON CENTER, doctor if you feel unwell.
P403+P235 - Store in a well-ventilated place. Keep cool.

Extra phrases :

EUH019 - May form explosive peroxides.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII


The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

	SAFETY DATA SHEET	Page : 3 / 16
		Revision nr : 4.0
	Vaeliquid	Issue date : 31/03/2022
		Supersedes : 05/02/2019

Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Tetrahydrofuran	(CAS-No.) 109-99-9 (EC-No.) 203-726-8 (EC Index) 603-025-00-0	65 – 70	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H336 STOT SE 3, H335

Specific concentration limits:

Substance name	Product identifier	Specific concentration limits
Tetrahydrofuran	(CAS-No.) 109-99-9 (EC-No.) 203-726-8 (EC Index) 603-025-00-0	(25 ≤C < 100) Eye Irrit. 2, H319 (25 ≤C < 100) STOT SE 3, H335

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- Additional advice : First aider: Pay attention to self-protection!. See also section 8 . Never give anything by mouth to an unconscious person. Show this safety data sheet to the doctor in attendance. Treat symptomatically.
- Inhalation : Keep at rest. Provide fresh air. Give oxygen or artificial respiration if necessary. Immediately consult a doctor/medical service .
- Skin contact : Take off immediately all contaminated clothing. Wash with plenty of water/. Rinse with plenty of water. In case of doubt or persistent symptoms, consult always a physician.
- Eyes contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
- Ingestion : Call a physician immediately. Do NOT induce vomiting. Rinse mouth, ingest activated charcoal. Rinse mouth immediately and drink plenty of water.

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

- Inhalation : May cause respiratory irritation. Most important symptoms : Headache. Drowsiness. May cause drowsiness or dizziness. Narcosis ...
- Skin contact : May be irritating.
- Eyes contact : Causes serious eye irritation. redness, itching, tears.
- Ingestion : May cause gastrointestinal irritation, nausea, vomiting and diarrhoea.
- Chronic symptoms : Suspected of causing cancer.


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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Water spray, Alcohol resistant foam, Carbon dioxide, Dry extinguishing powder.
- Unsuitable extinguishing media : Strong water jet .

	SAFETY DATA SHEET	Page : 4 / 16
		Revision nr : 4.0
	Vaeliquid	Issue date : 31/03/2022
		Supersedes : 05/02/2019

5.2. Special hazards arising from the substance or mixture

- Specific hazards : May form explosive peroxides. Vapours are heavier than air and may spread along floors. Burning produces noxious and toxic fumes. Hazardous decomposition products COx. Do not allow run-off from fire-fighting to enter drains or water courses. Dispose of waste in accordance with environmental legislation.
- Explosion hazard : Vapours may form explosive mixture with air. Vapours are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapours.
- Hazardous decomposition products in case of fire : Carbon oxides (CO, CO2).

5.3. Advice for firefighters

- Firefighting instructions : Evacuate personnel to a safe area. Special protective equipment for firefighters. : In case of fire: Wear self-contained breathing apparatus. Cool containers / tanks with water spray. Temperature class : T3.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- For non-emergency personnel : Evacuate personnel to a safe area. Use personal protective equipment as required. Reference to other sections 8. Avoid contact with skin, eyes and clothing. Do not breathe vapour/aerosol. Provide adequate ventilation. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Take precautionary measures against static discharge.

6.1.2. For emergency responders

- For emergency responders : Ensure procedures and training for emergency decontamination and disposal are in place. Reference to other sections 8.

6.2. Environmental precautions


Do not allow to enter into surface water or drains. Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Remove all sources of ignition. Use only explosion-proof equipment. Stop leak if safe to do so. Dam up. Take up liquid spill into absorbent material, e.g.: sand, earth, vermiculite or powdered limestone. Collect in closed and suitable containers for disposal. Dispose of contaminated materials in accordance with current regulations. After cleaning, flush traces away with water.

6.4. Reference to other sections

Reference to other sections 8. Concerning disposal elimination after cleaning, see section 13.

	SAFETY DATA SHEET	Page : 5 / 16
		Revision nr : 4.0
	Vaeliquid	Issue date : 31/03/2022
		Supersedes : 05/02/2019

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Provide adequate ventilation. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8 . Avoid contact with skin, eyes and clothing. Do not breathe vapour/aerosol. Ensure equipment is adequately earthed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not smoke. After use replace the closing cap immediately. Reacts with air to form peroxides. Before use: check for peroxides and eliminate them . Protect against light. Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time). Do not allow to enter into surface water or drains. Take any precaution to avoid mixing with combustibles... Reference to other sections 10.

Hygiene measures : Use only in area provided with appropriate exhaust ventilation. Emergency safety showers should be available in the immediate vicinity of any potential exposure. Wash hands and face before breaks and immediately after handling of the product. When using do not eat, drink or smoke. Keep away from food, drink and animal feedingstuffs. Separate working clothes from town clothes. Remove contaminated clothing and shoes. Keep good industrial hygiene.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Storage of flammable liquids . Keep container tightly closed in a cool, well-ventilated place. Keep under a nitrogen blanket. Refer to the detailed list of incompatible materials in section 10 Stability/Reactivity.

Heat and ignition sources : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep out of direct sunlight.

Packaging materials : Keep only in the original container. Do not burn, or use a cutting torch on the empty drum. Do not pierce or burn, even after use.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Tetrahydrofuran (109-99-9)		
Australia	OES TWA [1]	295 mg/m ³
Australia	OES TWA [2]	100 ppm
Canada (Quebec)	VEMP (OEL TWA)	300 mg/m ³
Canada (Quebec)	VEMP (OEL TWA) [ppm]	100 ppm
USA - IDLH	IDLH [ppm]	2000 ppm (10% LEL)
USA - NIOSH	NIOSH REL TWA	590 mg/m ³
USA - NIOSH	NIOSH REL TWA [ppm]	200 ppm
USA - NIOSH	NIOSH REL STEL	735 mg/m ³
USA - NIOSH	NIOSH REL STEL [ppm]	250 ppm
USA - OSHA	OSHA PEL TWA [1]	590 mg/m ³
USA - OSHA	OSHA PEL TWA [2]	200 ppm

	SAFETY DATA SHEET	Page : 6 / 16
		Revision nr : 4.0
	Vaeliquid	Issue date : 31/03/2022
		Supersedes : 05/02/2019


8.2. Exposure controls

Engineering measure(s)	: Provide adequate ventilation. Use only in area provided with appropriate exhaust ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Take precautionary measures against static discharge. Organisational measures to prevent /limit releases, dispersion and exposure : Reference to other sections 7.
Personal protective equipment	: Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Hand protection	: Wear chemically resistant gloves (tested to EN374) . Breakthrough time : >8h : Barrier® (PE/PA/PE) /. Silver shield ® / 4H® (PE/EVAL/PE) . The selection of specific gloves for a specific application and time of use in a working area, should also take into account other factors on the working space, such as (but not limited to): other chemicals that are possibly used, physical requirements (protection against cutting/drilling, skill, thermal protection), and the instructions/specification of the supplier of gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Not recommended. : NR (natural rubber, natural latex) /. NBR (Nitrile rubber) /. Neoprene, PVA, PVC, PE. Butyl caoutchouc (butyl rubber)
Eye protection	: tightly fitting safety goggles /. Wear eye protection .
Body protection	: Wear suitable protective clothing. Impervious clothing .
Respiratory protection	: Provide adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Half-face mask (DIN EN 140) (EN140). full face mask (DIN EN 136) (EN136). Filter type: A / A-P2 (EN141). High concentrations can remove oxygen and cause dizziness or suffocation. Use compressed air or fresh air breathing apparatus in closed compartments. EN 138/269 / EN139/137.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: liquid /. thixotropic.
Molecular weight	: ~ 72,11 g/mol
Colour	: White. Grey. Black.
Odour	: ether-like.
Odour threshold	: No data available
pH	: 7 (@20°C)
Relative evaporation rate (butylacetate=1)	: No data available
Melting / freezing point	: -108,5 °C
Freezing point	: No data available
Initial boiling point and boiling range	: 65,5 °C
Flash point	: -20 °C
Auto-ignition temperature	: 212 °C Ignition temperature in °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: 217 mbar (20°C)
Vapour density	: No data available

	SAFETY DATA SHEET	Page : 7 / 16
		Revision nr : 4.0
	Vaeliquid	Issue date : 31/03/2022
		Supersedes : 05/02/2019

Relative density	: No data available
Density	: 0,8892 g/cm ³ (@ 20°C)
Solubility	: No data available
Partition coefficient n-octanol/water	: No data available
Kinematic viscosity	: No data available
Dynamic viscosity	: No data available
Explosive properties	: Not applicable. Vapours may form explosive mixture with air. May form explosive peroxides. (Exposure to light + O ₂).
Oxidising properties	: Not applicable. The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with oxidising properties.
Explosive limits	: LEL: 1,5 vol %
Particle size	: Not applicable
Particle size distribution	: Not applicable
Particle shape	: Not applicable
Particle aspect ratio	: Not applicable
Particle aggregation state	: Not applicable
Particle agglomeration state	: Not applicable
Particle specific surface area	: Not applicable
Particle dustiness	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

VOC content : 100 %

SECTION 10: Stability and reactivity

10.1. Reactivity

Highly flammable liquid and vapour. Reference to other sections 10.5.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

May form explosive peroxides. This reaction is accelerated on exposure to light & O₂. Reference to other sections 7.

10.4. Conditions to avoid


Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Exposure to air. Exposure to light. Reference to other sections 7.

10.5. Incompatible materials

Strong oxidizing agents. , Oxygen . Reference to other sections 7.

10.6. Hazardous decomposition products

Burning produces noxious and toxic fumes. Hazardous decomposition products. Carbon oxides . Reference to other sections 10.3.

	SAFETY DATA SHEET	Page : 8 / 16
		Revision nr : 4.0
	Vaeliquid	Issue date : 31/03/2022
		Supersedes : 05/02/2019

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity : Harmful if swallowed. (Based on available data, the classification criteria are not met)

ATE CLP (oral)	714,286 mg/kg bodyweight
----------------	--------------------------

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)
pH: 7 (@20°C)

Serious eye damage/irritation : Causes serious eye irritation.
pH: 7 (@20°C)

Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity : Suspected of causing cancer.

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)

STOT-single exposure : May cause drowsiness or dizziness. May cause respiratory irritation.

STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

Vaeliquid	
Kinematic viscosity	No data available

Other information : Symptoms related to the physical, chemical and toxicological characteristics :
Reference to other sections 4.2.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

11.2.2 Other information

Other information : Symptoms related to the physical, chemical and toxicological characteristics :
:Reference to other sections 4.2


SECTION 12: Ecological information

12.1. Toxicity

Environmental properties : Information given is based on data on the components and the ecotoxicology of similar products.

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

	SAFETY DATA SHEET	Page : 9 / 16
		Revision nr : 4.0
		Issue date : 31/03/2022
	Vaeliquid	Supersedes : 05/02/2019

12.2. Persistence and degradability

Vaeliquid	
Persistence and degradability	Readily biodegradable.
Tetrahydrofuran (109-99-9)	
Persistence and degradability	Readily biodegradable.

12.3. Bioaccumulative potential

Vaeliquid	
Partition coefficient n-octanol/water	No data available

12.4. Mobility in soil

Vaeliquid	
Surface tension	No data available
Ecology - soil	No data available.

12.5. Results of PBT and vPvB assessment

Vaeliquid	
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII	
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

12.7. Other adverse effects


Additional information : No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Handle with care. Reference to other sections 7. Handling and storage. Do not allow to enter into surface water or drains. Dispose of contaminated materials in accordance with current regulations. Refer to manufacturer/supplier for information on recovery/recycling. Collect and dispose of waste product at an authorised disposal facility.






Additional information : Do not burn, or use a cutting torch on, the empty drum. Do not puncture or incinerate. Delivery to an approved waste disposal company.

	SAFETY DATA SHEET		Page : 10 / 16
			Revision nr : 4.0
	Vaeliquid		Issue date : 31/03/2022
			Supersedes : 05/02/2019

European waste catalogue (2001/573/EC, 75/442/EEC, 91/689/EEC) : Classified as hazardous waste according to European Union regulations.
The following Waste Codes are only suggestions:
150110 - packaging containing residues of or contaminated by dangerous substances .
Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities

SECTION 14: Transport information


In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
2056	2056	2056	2056	2056
14.2. UN proper shipping name				
TETRAHYDROFURAN	TETRAHYDROFURAN	Tetrahydrofuran	TETRAHYDROFURAN	TETRAHYDROFURAN
Transport document description				
UN 2056 TETRAHYDROFURAN, 3, II, (D/E)	UN 2056 TETRAHYDROFURAN, 3, II (< -18°C c.c.)	UN 2056 Tetrahydrofuran, 3, II	UN 2056 TETRAHYDROFURAN, 3, II	UN 2056 TETRAHYDROFURAN, 3, II
14.3. Transport hazard class(es)				
3	3	3	3	3
				
14.4. Packing group				
II	II	II	II	II
14.5. Environmental hazards				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary information available				

14.6. Special precautions for user

- Overland transport

Classification code (ADR) : F1
Limited quantities (ADR) : 1I
Excepted quantities (ADR) : E2
Packing instructions (ADR) : P001, IBC02, R001
Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions (ADR) : T4
Portable tank and bulk container special provisions (ADR) : TP1
Tank code (ADR) : LGBF
Vehicle for tank carriage : FL
Transport category (ADR) : 2
Special provisions for carriage - Operation (ADR) : S2, S20

	SAFETY DATA SHEET	Page : 11 / 16
		Revision nr : 4.0
	Vaeliquid	Issue date : 31/03/2022
		Supersedes : 05/02/2019

Hazard identification number (Kemler No.) : 33

Orange plates :



Tunnel restriction code : D/E

EAC code : •2YE

- Transport by sea

Limited quantities (IMDG) : 1 L

Excepted quantities (IMDG) : E2

Packing instructions (IMDG) : P001

IBC packing instructions (IMDG) : IBC02

Tank instructions (IMDG) : T4

Tank special provisions (IMDG) : TP1

EmS-No. (Fire) : F-E

EmS-No. (Spillage) : S-D

Stowage category (IMDG) : B

Flash point (IMDG) : below -18°C c.c.

Properties and observations (IMDG) : Colourless liquid with an ethereal odour. Flashpoint: below -18°C c.c.
Explosive limits: 1.5% to 12% Miscible with water.

- Air transport

PCA Excepted quantities (IATA) : E2

PCA Limited quantities (IATA) : Y341

PCA limited quantity max net quantity (IATA) : 1L

PCA packing instructions (IATA) : 353

PCA max net quantity (IATA) : 5L

CAO packing instructions (IATA) : 364

CAO max net quantity (IATA) : 60L

ERG code (IATA) : 3H

- Inland waterway transport

Classification code (ADN) : F1

Limited quantities (ADN) : 1 L

Excepted quantities (ADN) : E2

Carriage permitted (ADN) : T

Equipment required (ADN) : PP, EX, A

Ventilation (ADN) : VE01

Number of blue cones/lights (ADN) : 1

- Rail transport


Classification code (RID) : F1

Limited quantities (RID) : 1L

Excepted quantities (RID) : E2

Packing instructions (RID) : P001, IBC02, R001

Mixed packing provisions (RID) : MP19

	SAFETY DATA SHEET	Page : 12 / 16
		Revision nr : 4.0
	Vaeliquid	Issue date : 31/03/2022
		Supersedes : 05/02/2019

Portable tank and bulk container instructions (RID) : T4
 Portable tank and bulk container special provisions (RID) : TP1
 Tank codes for RID tanks (RID) : LGBF
 Transport category (RID) : 2
 Colis express (express parcels) (RID) : CE7
 Hazard identification number (RID) : 33

14.7. Maritime transport in bulk according to IMO instruments

Code: IBC : Ship type 3. Pollution category Z.

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3(a) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F	Vaeliquid ; Tetrahydrofuran
3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	Vaeliquid ; Tetrahydrofuran
40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.	Vaeliquid ; Tetrahydrofuran

Contains no substance on the REACH candidate list


Contains no REACH Annex XIV substances

VOC content : 100 %


15.1.2. National regulations

France

No ICPE	Installations classées Désignation de la rubrique	Code Régime	Rayon
1434.text	Liquides inflammables, liquides de point éclair compris entre 60° C et 93° C (1), fiouls lourds et pétroles bruts, à l'exception des liquides mentionnés à la rubrique 4755 et des autres boissons alcoolisées (installation de remplissage ou de distribution, à l'exception des stations-service visées à la rubrique 1435). (1) A l'exception de ceux ayant donné des résultats négatifs à une épreuve de combustion entretenue reconnue par le ministre chargé des installations classées.		

	SAFETY DATA SHEET	Page : 13 / 16
		Revision nr : 4.0
	Vaeliquid	Issue date : 31/03/2022
		Supersedes : 05/02/2019

1434.1a	1. Installations de chargement de véhicules citernes, de remplissage de récipients mobiles, le débit maximum de l'installation étant : a) Supérieur ou égal à 100 m ³ /h	A	1
1434.1b	1. Installations de chargement de véhicules citernes, de remplissage de récipients mobiles, le débit maximum de l'installation étant : b) Supérieur ou égal à 5 m ³ /h, mais inférieur à 100 m ³ /h	DC	
1434.2	2. Installations de chargement ou de déchargement desservant un stockage de ces liquides soumis à autorisation	A	1
1435.text	Stations-service : installations, ouvertes ou non au public, où les carburants sont transférés de réservoirs de stockage fixes dans les réservoirs à carburant de véhicules. Le volume annuel de carburant liquide distribué étant :		
1435.1	1. Supérieur à 20 000 m ³ Nota.-Les débits sont exprimés pour une température de gaz de 273,15 K à une pression de 101,325 kPa.	A	1
1435.2	2. Supérieur à 100 m ³ d'essence ou 500 m ³ au total, mais inférieur ou égal à 20 000 m ³ Nota.-Les débits sont exprimés pour une température de gaz de 273,15 K à une pression de 101,325 kPa.	E	
1435.3	3. Supérieur à 100 m ³ d'essence ou 500 m ³ au total, mais inférieur ou égal à 20 000 m ³ Nota.-Les débits sont exprimés pour une température de gaz de 273,15 K à une pression de 101,325 kPa.	DC	
4330.text	Liquides inflammables de catégorie 1, liquides inflammables maintenus à une température supérieure à leur point d'ébullition, autres liquides de point éclair inférieur ou égal à 60° C maintenus à une température supérieure à leur température d'ébullition ou dans des conditions particulières de traitement, telles qu'une pression ou une température élevée (1).		
4330.1	La quantité totale susceptible d'être présente dans les installations y compris dans les cavités souterraines étant : 1. Supérieure ou égale à 10 t (1) Conformément à la section 2.6.4.5 de l'annexe I du règlement (CE) n° 1272/2008, il n'est pas nécessaire de classer les liquides ayant un point d'éclair supérieur à 35° C dans la catégorie 3 si l'épreuve de combustion entretenue du point L 2, partie III, section 32, du Manuel d'épreuves et de critères des Nations unies a donné des résultats négatifs. Toutefois, cette remarque n'est pas valable en cas de température ou de pression élevée, et ces liquides doivent alors être classés dans cette catégorie. Quantité seuil bas au sens de l'article R. 511-10 : 10 t. Quantité seuil haut au sens de l'article R. 511-10 : 50 t.	A	2
4330.2	La quantité totale susceptible d'être présente dans les installations y compris dans les cavités souterraines étant : 2. Supérieure ou égale à 1 t mais inférieure à 10 t (1) Conformément à la section 2.6.4.5 de l'annexe I du règlement (CE) n° 1272/2008, il n'est pas nécessaire de classer les liquides ayant un point d'éclair supérieur à 35° C dans la catégorie 3 si l'épreuve de combustion entretenue du point L 2, partie III, section 32, du Manuel d'épreuves et de critères des Nations unies a donné des résultats négatifs. Toutefois, cette remarque n'est pas valable en cas de température ou de pression élevée, et ces liquides doivent alors être classés dans cette catégorie. Quantité seuil bas au sens de l'article R. 511-10 : 10 t. Quantité seuil haut au sens de l'article R. 511-10 : 50 t.	DC	

	SAFETY DATA SHEET	Page : 14 / 16
		Revision nr : 4.0
	Vaeliquid	Issue date : 31/03/2022
		Supersedes : 05/02/2019

4331.text	Liquides inflammables de catégorie 2 ou catégorie 3 à l'exclusion de la rubrique 4330. La quantité totale susceptible d'être présente dans les installations y compris dans les cavités souterraines étant :		
4331.1	1. Supérieure ou égale à 1000 t Quantité seuil bas au sens de l'article R. 511-10 : 5 000 t. Quantité seuil haut au sens de l'article R. 511-10 : 50 000 t.	A	2
4331.2	2. Supérieure ou égale à 100 t mais inférieure à 1000 t Quantité seuil bas au sens de l'article R. 511-10 : 5 000 t. Quantité seuil haut au sens de l'article R. 511-10 : 50 000 t.	E	
4331.3	3. Supérieure ou égale à 50 t mais inférieure à 100 t Quantité seuil bas au sens de l'article R. 511-10 : 5 000 t. Quantité seuil haut au sens de l'article R. 511-10 : 50 000 t.	DC	

Germany

Regulatory reference	: WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1)
Risk classification according to VbF	: B - Liquids with a flashpoint below 21°C, but soluble in water at 15°C or flammable ingredients that are soluble in water at 15°C
Hazardous Incident Ordinance (12. BImSchV)	: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)
TA Luft	: Organic Substances

Netherlands

Waterbezwaarlijkheid	: B (5) - Weinig schadelijk voor in het water levende organismen
Saneringsinspanningen	: B - Lozing minimaliseren; toepassen van best uitvoerbare technieken
SZW-lijst van kankerverwekkende stoffen	: None of the components are listed
SZW-lijst van mutagene stoffen	: None of the components are listed
SZW-lijst van reprotoxische stoffen – Borstvoeding	: None of the components are listed
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid	: None of the components are listed
SZW-lijst van reprotoxische stoffen – Ontwikkeling	: None of the components are listed


Denmark

Classification remarks	: Emergency management guidelines for the storage of flammable liquids must be followed
Recommendations Danish Regulation	: Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out

For the following substances of this mixture a chemical safety assessment has been carried out
Tetrahydrofuran

	SAFETY DATA SHEET	Page : 15 / 16
		Revision nr : 4.0
		Issue date : 31/03/2022
	Vaeliquid	Supersedes : 05/02/2019


SECTION 16: Other information

Indication of changes:

	Mixtures		
1.1	REACH registration No		
1.2	Use of the substance/mixture		
2.2	Precautionary statements (CLP)		
2.3	ED	Added	
3.1	Composition	Modified	
4.3	Indication of any immediate medical attention and special treatment needed	Added	
9.1	Colour	Modified	
9.1	Oxidising properties	Modified	
9.2	Information with regard to physical hazard classes	Modified	
9.2	Other safety characteristics	Added	
11.2	Adverse health effects caused by endocrine disrupting properties	Modified	
12.6	Adverse effects on the environment caused by endocrine disrupting properties	Modified	
12.7	Other adverse effects	Added	
14.1	UN-No. (ADN)	Added	
14.7	Maritime transport in bulk according to IMO instruments		
15.1	Saneringsinspanning en	Modified	
16	Training advice		
16	Other information		

Abbreviations and acronyms:

ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin
ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC
IATA = International Air Transport Association
IMDG = International Maritime Dangerous Goods Code
LEL = Lower Explosive Limit/Lower Explosion Limit
UEL = Upper Explosion Limit/Upper Explosive Limit
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
EC50 = Median Effective Concentration
LC50 = Median lethal concentration
LD50 = Median lethal dose
TLV = Threshold limits
TWA = time weighted average
STEL = Short term exposure limit
persistent, bioaccumulating and toxic (PBT).
vPvB = very persistent and very bioaccumulating
WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)

	SAFETY DATA SHEET	Page : 16 / 16
		Revision nr : 4.0
	Vaeliquid	Issue date : 31/03/2022
		Supersedes : 05/02/2019

Sources of key data used to compile the datasheet : ECHA (European Chemicals Agency). LOLI. Supplier SDS.

Training advice : Training staff on good practice. Manipulations are to be done only by qualified and authorised persons.

Other information : CLP, Article 9. Calculation method. Physicochemical hazard assessment: Information given is based on tests on the mixture itself.

Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Carc. 2	Carcinogenicity, Category 2
EUH019	May form explosive peroxides.
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878
Classification according to Regulation (EC) No. 1272/2008 [CLP]
Labelling according to Regulation (EC) No. 1272/2008 [CLP]

DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.