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

1.1. Product identifier

Product form : Substance
Trade name : 1,2-dichloroethane (EDC)
Chemical name : 1,2-dichloroethane; ethylene dichloride
EC Index : 602-012-00-7
EC-No. : 203-458-1
CAS-No. : 107-06-2

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, Professional use

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Qatar Vinyl Company Ltd. (QVC)
P.O. Box 24440
Doha
State of Qatar

1.4. Emergency telephone number


Country/Area	Organisation/Company	Address	Emergency number	Comment
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]

Flammable liquids, Category 2 H225
Acute toxicity (oral), Category 4 H302
Acute toxicity (inhalation:dust,mist) Category 4 H332
Skin corrosion/irritation, Category 2 H315
Serious eye damage/eye irritation, Category 2 H319
Carcinogenicity, Category 1B H350
Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation H335
Full text of H- and EUH-statements: see section 16

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Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP) :



Signal word :

Danger

Hazard statements (CLP) :

- H225 - Highly flammable liquid and vapour.
- H302+H332 - Harmful if swallowed or if inhaled.
- H315 - Causes skin irritation.
- H319 - Causes serious eye irritation.
- H335 - May cause respiratory irritation.
- H350 - May cause cancer.

Precautionary statements (CLP) :

- P403+P235 - Store in a well-ventilated place. Keep cool.
- P233 - Keep container tightly closed.
- P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P271 - Use only outdoors or in a well-ventilated area.
- P201 - Obtain special instructions before use.
- P308+P313 - IF exposed or concerned: Get medical advice, medical attention.

Listed on CLP Annex VI :

EC Index-No.: 602-012-00-7

2.3. Other hazards


Other hazards :

Vapours can form explosive mixtures with air. Results of PBT and vPvB assessment : Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII.

Component	
1,2-Dichloroethane (107-06-2)	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

The substance is not 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

Component	
1,2-Dichloroethane (107-06-2)	The substance is not 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

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SECTION 3: Composition/information on ingredients

3.1. Substances

Substance name	: 1,2-Dichloroethane
CAS-No.	: 107-06-2
EC-No.	: 203-458-1
EC Index	: 602-012-00-7

Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1,2-Dichloroethane substance listed as REACH Candidate substance listed in REACH Annex XIV (1,2-dichloroethane (EDC))	CAS-No.: 107-06-2 EC-No.: 203-458-1 EC Index: 602-012-00-7	> 98,5	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 (ATE=680 mg/kg bodyweight) Acute Tox. 4 (Inhalation:dust,mist), H332 (ATE=4 mg/l/4h) Skin Irrit. 2, H315 Eye Irrit. 2, H319 Carc. 1B, H350 STOT SE 3, H335

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

3.2. Mixtures

Not applicable


SECTION 4: First aid measures

4.1. Description of first aid measures

Additional advice	: First aider: Pay attention to self-protection!. Concerning personal protective equipment to use, see section 8. Never give anything by mouth to an unconscious person. In case of doubt or persistent symptoms, consult always a physician. Show this safety data sheet to the doctor in attendance.
Inhalation	: Remove casualty to fresh air and keep warm and at rest. In case of doubt or persistent symptoms, consult always a physician.
Skin contact	: Remove contaminated clothing and shoes. Gently wash with plenty of soap and water. In case of doubt or persistent symptoms, consult always a physician.
Eyes contact	: Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. In case of doubt or persistent symptoms, consult always a physician.
Ingestion	: Rinse mouth thoroughly with water. Get medical advice/attention.

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

Inhalation	: May cause respiratory irritation. Harmful if inhaled. The following symptoms may occur: Difficulty in breathing, Depression of the central nervous system, headaches, dizziness, drowsiness, loss of coordination. Cardiac arrhythmias.
Skin contact	: Causes skin irritation. The following symptoms may occur: Redness.
Eyes contact	: Causes serious eye irritation. The following symptoms may occur: Redness, pain.

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Ingestion : Harmful if swallowed. The following symptoms may occur: Depression of the central nervous system, headaches, dizziness, drowsiness, loss of coordination, May cause gastrointestinal irritation, nausea, vomiting and diarrhoea, Cardiac arrhythmias.

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

Treat symptomatically. Do not administer catecholamines.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : carbon dioxide (CO2), powder, alcohol-resistant foam, water spray.
 Unsuitable extinguishing media : Strong water jet.

5.2. Special hazards arising from the substance or mixture

Specific hazards : Highly flammable liquid and vapour. Heating will cause a rise in pressure with a risk of bursting. 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 : At high temperatures : Hydrogen chloride, Phosgene.

5.3. Advice for firefighters

Firefighting instructions : Evacuate area. Use water spray or fog for cooling exposed containers. Contain the extinguishing fluids by bunding. Prevent fire fighting water from entering the environment.
 Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus.
 Other information : Do not allow run-off from fire-fighting to enter drains or water courses. Dispose of waste in accordance with environmental legislation.

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 unnecessary personnel. Keep upwind. Provide adequate ventilation. Wear recommended personal protective equipment. Concerning personal protective equipment to use, see section 8. Do not breathe vapours. Avoid contact with skin, eyes and clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ensure equipment is adequately earthed. Use explosion-proof equipment. Use only non-sparking tools.

6.1.2. For emergency responders

For emergency responders : Ensure procedures and training for emergency decontamination and disposal are in place. Concerning personal protective equipment to use, see section 8.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Notify authorities if product enters sewers or public waters.

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6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Stop leak if safe to do so. Dam up the liquid spill. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Recover large spills by pumping (use an explosion proof or hand pump). Place in a suitable container for disposal in accordance with the waste regulations (see Section 13). This material and its container must be disposed of in a safe way, and as per local legislation. Cover the spilled liquid product with foam to slow down evaporation.

6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

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. Do not breathe vapours. Avoid contact with skin, eyes and clothing. Take any precaution to avoid mixing with Incompatible materials, Refer to Section 10 on Incompatible Materials. Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time). Avoid release to the environment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools.

Hygiene measures : Keep good industrial hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feedingstuffs. Remove contaminated clothes. Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Storage of flammable liquids. Store in a dry, cool and well-ventilated place. Do not store near or with any of the incompatible materials listed in section 10. Bund storage facilities to prevent soil and water pollution in the event of spillage. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Incompatible materials : Keep away from oxidizing agents and bases. acids and bases. Finely divided metals.


Packaging materials : Keep only in the original container. Suitable material: Steel. Unsuitable material: Light metals and alloys.

Switzerland

Storage class (LK) : LK 3 - Flammable liquids

7.3. Specific end use(s)

No data available.


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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

1,2-Dichloroethane (107-06-2)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	8,2 mg/m ³ 2 ppm
Remark	Present (Substantial contribution to the total body burden via dermal exposure possible)
EU - Binding Occupational Exposure Limit (BOEL)	
Local name	Ethylene dichloride
BOEL TWA	8,2 mg/m ³ 2 ppm
Notes	Skin (Substantial contribution to the total body burden via dermal exposure possible)
Regulatory reference	DIRECTIVE (EU) 2019/130 (amending Directive 2004/37/EC)
Austria - Occupational Exposure Limits	
Local name	1,2-Dichlorethan
TRK (OEL TWA)	8,2 mg/m ³ 2 ppm
TRK (OEL STEL)	80 mg/m ³ (4x 15(Miw) min) 20 ppm (4x 15(Miw) min)
Remark	Krebserzeugend: III A2
OEL chemical category	Skin notation, Group A2 Carcinogen
Regulatory reference	BGBl. II Nr. 156/2021
Belgium - Occupational Exposure Limits	
Local name	Chlorure d'éthylène (dichlorure d'éthylène) # 1,2-Dichloorethaan (ethyleendichloride)
OEL TWA	8,2 mg/m ³ 2 ppm

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1,2-Dichloroethane (107-06-2)

Remark	C: la mention "C" signifie que l'agent en question relève du champ d'application du titre 2 relatif aux agents cancérigènes, mutagènes et reprotoïques du livre VI du code de bien-être au travail, D: la mention "D" signifie que la résorption de l'agent, via la peau, les muqueuses ou les yeux, constitue une partie importante de l'exposition totale. Cette résorption peut se faire tant par contact direct que par présence de l'agent dans l'air. # C: de vermelding "C" betekent dat het betrokken agens valt onder het toepassingsgebied van titel 2 betreffende kankerverwekkende, mutagene en reprotoxische agentia van boek VI van de codex over het welzijn op het werk, D: de vermelding "D" betekent dat de opname van het agens via de huid, de slijmvliezen of de ogen een belangrijk deel van de totale blootstelling vormt. Deze opname kan het gevolg zijn van zowel direct contact als zijn aanwezigheid in de lucht.
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OEL chemical category	Skin, Carcinogen, Skin notation significant contribution to the total accumulation in the body through skin exposure is possible
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Regulatory reference	Koninklijk besluit/Arrêté royal 16/11/2023
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Bulgaria - Occupational Exposure Limits

Local name	1,2-Дихлоретан (Етиленов дихлорид)
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OEL TWA	8,2 mg/m ³
	2 ppm

Remark	Кожа (Възможен е значителен принос за общото натрупване в тялото чрез кожна експозиция)
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Regulatory reference	Наредба № 10 от 26.09.2003 г. за защита на работещите от рискове, свързани с експозиция на канцерогени и мутагени при работа (изм. и доп. ДВ. бр.5 от 17 Януари 2020 г.)
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Croatia - Occupational Exposure Limits

Local name	1,2-Dikloroetan; etilen diklorid
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GVI (OEL TWA)	8,2 mg/m ³
	2 ppm

Remark	Direktiva: 2019/130. Napomena: Koža (razvrstana kao tvar koja nadražuje kožu (H315)), Karc 1B
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OEL chemical category	Carcinogen Category 1B, Skin notation significant contribution to the total body load possible exposure through the skin
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Regulatory reference	Pravilnik o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 148/2023)
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Cyprus - Occupational Exposure Limits


OEL TWA	8,2 mg/m ³
	2 ppm

OEL chemical category	Skin-potential for cutaneous absorption
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Czech Republic - Occupational Exposure Limits

Local name	1,2-Dichlorethan (Ethylendichlorid)
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PEL (OEL TWA)	10 mg/m ³
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1,2-Dichloroethane (107-06-2)	
	2 ppm
NPK-P (OEL C)	16,4 mg/m ³
	4 ppm
Remark	D - při expozici se významně uplatňuje pronikání faktoru kůží, I - dráždí sliznice (oči, dýchací cesty) resp. kůži, K - karcinogen kategorie 1A a 1B (s větou H350, H350i).
OEL chemical category	Potential for cutaneous absorption
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 330/2023 Sb.)
Denmark - Occupational Exposure Limits	
Local name	1,2-Dichlorethan (Ethylenchlorid; Ethylendichlorid)
OEL TWA	4 mg/m ³
	1 ppm
OEL STEL	8 mg/m ³
	2 ppm
Remark	E (betyder, at stoffet har en EF-grænseværdi); H (betyder, at stoffet kan optages gennem huden); K (betyder, at stoffet anses for at kunne være kræftfremkaldende)
OEL chemical category	Potential for cutaneous absorption
Regulatory reference	BEK nr 291 af 19/03/2024
Estonia - Occupational Exposure Limits	
Local name	1,2-dikloroetaan (etüleendikloriid)
OEL TWA	4 mg/m ³
	1 ppm
OEL STEL	20 mg/m ³
	5 ppm
Remark	A (Naha kaudu kergesti imenduv aine), C (Kantserogeenne aine)
OEL chemical category	Skin notation, Carcinogenic substance
Regulatory reference	Vabariigi Valitsuse 20. märtsi 2001. a määruse nr 105 (RT I, 21.12.2022, 3)
Finland - Occupational Exposure Limits	
Local name	1,2-Dikloorietaani (Etyleenidikloridi)
HTP (OEL TWA)	4 mg/m ³
	8,2 mg/m ³
	1 ppm 2 ppm
HTP (OEL STEL)	20 mg/m ³
	5 ppm
Remark	lho
OEL chemical category	Potential for cutaneous absorption

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1,2-Dichloroethane (107-06-2)	
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveysministeriö)
France - Occupational Exposure Limits	
Local name	1,2-Dichloroéthane (Dichlorure d'éthylène)
VME (OEL TWA)	8,2 mg/m ³ (restrictive limit) 2 ppm (restrictive limit)
Remark	Valeurs réglementaires contraignantes. Cancérogène de catégorie 1B, Risque de pénétration percutanée
OEL chemical category	Carcinogen category 1B, Risk of cutaneous absorption
Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 6443, 2022; Outil65; Décret n° 2021-434; Décret n° 2021-1849)
Germany - Occupational Exposure Limits (TRGS 910)	
Local name	1,2-Dichlorethan
Acceptable concentration (Volume conc.)	0,2 ppm
Acceptable concentration (Weight conc.)	0,8 mg/m ³
Notes	b) Akzeptanzkonzentration assoziiert mit Risiko 4:10000
Tolerance concentration (Volume conc.)	1 ppm
Tolerance concentration (Weight conc.)	4 mg/m ³
Tolerance concentration excess factor	8
Remark	(2) Die Toleranzkonzentration wurde gemäß Nummer 3.2.1 aufgrund einer nicht krebs-erzeugenden Wirkung festgelegt. Bei Überschreitung gelten die gleichen Maßnahmen wie bei Überschreitung des AGW.; H - Hautresorptiv
Regulatory reference	TRGS 910
Greece - Occupational Exposure Limits	
Local name	Αιχλωροαιθυλένιο (1,2-διχλωροαιθάνιο, EDC) [Αιθυλενοδιχλωρίδιο]
OEL TWA	8,2 mg/m ³ 2 ppm
OEL chemical category	skin - potential for cutaneous absorption
Remark	Δέρμα (Είναι πιθανή η σημαντική αύξηση της συνολικής επιβάρυνσης του λόγω δερματικής έκθεσης)
Regulatory reference	Π.Δ. 26/2020 - Σχετικά με την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με την έκθεση σε καρκινογόνους ή μεταλλαξιογόνους παράγοντες κατά την εργασία
Hungary - Occupational Exposure Limits	
Local name	1,2-DIKLÓRETÁN (Etilén-diklorid)
AK (OEL TWA)	8,2 mg/m ³
Remark	k(1B) (rákkeltő), i (ingerlő anyag, amely izgatja a bőrt, nyálkahártyát, szemet vagy mindhármát), b (Bőrön át is felszívódik); EU6 (2019/130 EU irányelvben közölt érték); T (Azok az anyagok, amelyek egészségkárosító hatása TARTÓS expozíciót követően jelentkezik)

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1,2-Dichloroethane (107-06-2)	
OEL chemical category	Potential for cutaneous absorption, Carc. 1B - Presumed Carcinogen
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Ireland - Occupational Exposure Limits	
Local name	Ethylene dichloride [1,2-Dichloroethane]
OEL TWA	8,2 mg/m ³
	2 ppm
OEL STEL	24,6 mg/m ³
	6 ppm
Remark	BOELV (Binding Occupational Exposure Limit Values), Skin (Substances which have the capacity to penetrate intact skin when they come in contact with it and be absorbed into the body. A substantial contribution to the total body burden via dermal exposure is possible), Carc.1B (Substances presumed to have carcinogenic potential for humans)
OEL chemical category	Carc1B
Regulatory reference	Chemical Agents Code of Practice 2024
Italy - Occupational Exposure Limits	
Local name	Etilene dicloruro
OEL TWA	8,2 mg/m ³
	2 ppm
Remark	Cute
OEL chemical category	skin - potential for cutaneous absorption
Regulatory reference	Allegato XLIII del D.Lgs. 9 aprile 2008, n. 81 e s.m.i.
Latvia - Occupational Exposure Limits	
Local name	Etilēndihlorīds
OEL TWA	10 mg/m ³
	2 ppm
Remark	Āda (Būtisks kopējās koncentrācijas palielinājums organismā ir iespējams saskarē ar ādu). Carc. 1B
OEL chemical category	skin - potential for cutaneous exposure
Regulatory reference	Ministru kabineta 2008. gada 29. septembra noteikumi Nr. 803 (Grozījumi Ministru kabineta 2021. gada 18. februārī noteikumiem Nr. 109)
Lithuania - Occupational Exposure Limits	
Local name	1,2-dichlorešanas (etileno dichloridas)
IPRV (OEL TWA)	4 mg/m ³
	1 ppm
TPRV (OEL STEL)	20 mg/m ³
	5 ppm

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1,2-Dichloroethane (107-06-2)	
Remark	K (kancerogeninis poveikis); O (medžiaga į organizmą gali prasiskverbti pro nepažeistą odą)
OEL chemical category	Carcinogen, Skin notation
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12)
Luxembourg - Occupational Exposure Limits	
Local name	Dichlorure d'éthylène
OEL TWA	8,2 mg/m ³
	2 ppm
Remark	Peau
Regulatory reference	Mémorial A N° 223 de 2021 concernant la protection des salariés contre les risques liés à l'exposition à des agents cancérogènes ou mutagènes au travail
Netherlands - Occupational Exposure Limits	
Local name	1,2-Dichloor-ethaan
TGG-8u (OEL TWA)	7 mg/m ³
	1,7 ppm
Remark	Kankerverwekkende stof. H (Huidopname) Stoffen die relatief gemakkelijk door de huid kunnen worden opgenomen, hetgeen een substantiële bijdrage kan betekenen aan de totale inwendige blootstelling, hebben in de lijst een H-aanduiding. Bij deze stoffen moeten naast maatregelen tegen inademing ook adequate maatregelen ter voorkoming van huidcontact worden genomen.
MAC chemical category	Skin notation
Regulatory reference	Arbeidsomstandighedenregeling 2024
Poland - Occupational Exposure Limits	
Local name	1,2-Dichloroetan (dichlorek etylenu)
NDS (OEL TWA)	8,2 mg/m ³
Remark	Skóra (Oznakowanie substancji notacją „skóra” oznacza, że wchłanianie substancji przez skórę może być tak samo istotne jak przy narażeniu drogą oddechową).
Regulatory reference	Dz. U. 2018 poz. 1286 wraz z późn. zm.
Portugal - Occupational Exposure Limits	
Local name	Dicloreto de etileno (1,2-Dicloroetano)
OEL TWA	8,2 mg/m ³
	2 ppm
OEL chemical category	A4 - Not Classifiable as a Human Carcinogen, skin - potential for cutaneous exposure indicative limit value
Remark	A4 (Agente não classificável como carcinogénico no Homem)
Regulatory reference	Norma Portuguesa NP 1796:2014

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1,2-Dichloroethane (107-06-2)	
Romania - Occupational Exposure Limits	
Local name	1,2 Diclorețan/Diclorură de etilena
OEL TWA	8,2 mg/m ³
	2 ppm
OEL chemical category	C1B, Skin notation
Remark	P - posibilitatea unei penetrări cutanate importante; C1B - poate provoca apariția cancerului
Regulatory reference	Hotărârea Guvernului nr. 1.218/2006 (Hotărârea nr. 53/2021)
Slovakia - Occupational Exposure Limits	
Local name	Etyléndichlorid (1,2-dichlóretán) (EDC)
NPHV (OEL TWA)	(TSH)
	2 ppm (TSH)
Remark	Kategória karcinogénov 1B – Pravdepodobný karcinogén; K – prienik cez kožu: Niektoré látky môžu prenikať ľahko cez kožu a spôsobovať smrteľné otravy často bez varovných príznakov (napríklad anilín, nitrobenzén, nitroglykol, fenoly a podobne).
Regulatory reference	Nariadenie vlády č. 356/2006 Z. z. (235/2020 Z. z.)
Slovenia - Occupational Exposure Limits	
Local name	etilendiklorid (1,2-dikloroetan)
OEL TWA	8,2 mg/m ³
	2 ppm
Remark	EU, K (Lastnost lažjega prehajanja snovi v organizem skozi kožo)
OEL chemical category	Category 1B, Potential for cutaneous absorption
Regulatory reference	Uradni list RS, št. 79/2019 z dne 24.12.2019
Spain - Occupational Exposure Limits	
Local name	1,2-Dicloroetano (Dicloruro de etileno)
VLA-ED (OEL TWA)	8,2 mg/m ³ (manufacturing, commercialization and use restrictions according to REACH)
	2 ppm (manufacturing, commercialization and use restrictions according to REACH)

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1,2-Dichloroethane (107-06-2)

Remark	C1B (Supuesto carcinógeno para el hombre), r (Esta sustancia tiene establecidas restricciones a la fabricación, la comercialización o el uso en los términos especificados en el "Reglamento (CE) nº 1907/2006 sobre Registro, Evaluación, Autorización y Restricción de sustancias y preparados químicos" (REACH) de 18 de diciembre de 2006 (DOUE L 369 de 30 de diciembre de 2006). Las restricciones de una sustancia pueden aplicarse a todos los usos o sólo a usos concretos. El anexo XVII del Reglamento REACH contiene la lista de todas las sustancias restringidas y especifica los usos que se han restringido), Vía dérmica (Indica que, en las exposiciones a esta sustancia, la aportación por la vía cutánea puede resultar significativa para el contenido corporal total si no se adoptan medidas para prevenir la absorción. En estas situaciones, es aconsejable la utilización del control biológico para poder cuantificar la cantidad global absorbida del contaminante), v (Agente cancerígeno con valor límite vinculante recogido en el anexo III del Real Decreto 665/1997 y en sus modificaciones posteriores).
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OEL chemical category	C1B, skin - potential for cutaneous absorption
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Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2024. INSHT
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Sweden - Occupational Exposure Limits

Local name	1,2-Diklorethan
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NGV (OEL TWA)	4 mg/m ³
	1 ppm

KGV (OEL STEL)	20 mg/m ³
	5 ppm

Remark	C (Ämnet är cancerframkallande. Risk för cancer finns även vid annan exponering än via inandning. För vissa cancerframkallande ämnen som inte har gränsvärden gäller förbud eller tillståndskrav enligt föreskrifterna om kemiska arbetsmiljörisker); H (Ämnet kan lätt upptas genom huden. Det föreskrivna gränsvärdet bedöms ge tillräckligt skydd endast under förutsättning att huden är skyddad mot exponering för ämnet ifråga); 13 (Ämnen som har tagits upp på bilaga XIV (tillstånd) till REACH och kräver tillstånd för att få användas och släppas ut på marknaden (1 dec 2017))
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OEL chemical category	Skin notation, Carcinogen
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Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
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United Kingdom - Occupational Exposure Limits

Local name	1,2-Dichloroethane (Ethylene dichloride)
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WEL TWA (OEL TWA)	21 mg/m ³
	5 ppm

WEL STEL (OEL STEL)	63 mg/m ³ (calculated)
	15 ppm (calculated)

Remark	Carc (Capable of causing cancer and/or heritable genetic damage), Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
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1,2-Dichloroethane (107-06-2)	
WEL chemical category	Potential for cutaneous absorption, Capable of causing cancer and/or heritable genetic damage
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
Iceland - Occupational Exposure Limits	
Local name	Etýlendíklóríð (1,2-díklóretan, etýlenklóríð)
OEL TWA	4 mg/m ³
	1 ppm
Remark	H (efnið getur auðveldlega borist inn í líkamann gegnum húð), K (efnið er krabbameinsvaldandi)
Regulatory reference	Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 390/2009)
Norway - Occupational Exposure Limits	
Local name	1,2-diklorethan (Etylendiklorid)
Grenseverdi (OEL TWA)	1 mg/m ³
	0,25 ppm
Korttidsverdi (OEL STEL)	3 mg/m ³ (value calculated)
	0,75 ppm (value calculated)
Remark	H: Kjemikalier som kan tas opp gjennom huden; K: Kjemikalier som skal betraktes som kreftfremkallende; G: EU har fastsatt en bindende grenseverdi og/eller anmerkning for stoffet.
OEL chemical category	Skin notation, Carcinogen
Regulatory reference	FOR-2023-12-18-2278
North Macedonia - Occupational Exposure Limits	
Local name	1,2-дихлоретан (етилен хлорид)
OEL TWA	20 mg/m ³
	5 ppm
KTV	4
Short time value [mg/m ³]	80 mg/m ³
Short time value	20 ppm
Remark	(KTV) краткотрајна вредност (КТВ) значи концентрација на опасни хемиски супстанци во воздухот на работното место внатре во зона на дишење, на која работникот без опасност по здравјето може да е изложен на покусо време. Изложеноста на краткотрајни вредности може да трае највеќе 15 минути и не смее да се повтори повеќе од четирипати во работната смена, при што меѓу две изложености на оваа концентрација мора да измине најмалку 60 минути. Краткотрајната вредност е изразена во mg/m ³ или во ml/m ³ (ppm) а е дадена како многукратни дозволени пречекорувања на граничната вредност; (ТДК) техничко достигнување на концентрацијата – е дадено за канцерогените супстанци и значи концентрација на супстанци во воздухот на работното место, кои можат да се достигнат со достапните техники

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1,2-Dichloroethane (107-06-2)	
Regulatory reference	Правилник за минималните барања за безбедност и здравје при работа на вработени од ризици поврзани со изложување на хемиски супстанции („Службен весник на Република Македонија“ бр.46/10)
Switzerland - Occupational Exposure Limits	
Local name	1,2-Dichloréthane / 1,2-Dichlorethan [Ethylenchlorid]
MAK (OEL TWA)	8,2 mg/m ³
	2 ppm
Notation	R, C1 _B / H, C1 _B
Remark	INRS, NIOSH, DFG
OEL chemical category	Skin notation, Category C1B carcinogen
Regulatory reference	www.suva.ch, 01.01.2024
USA - ACGIH - Occupational Exposure Limits	
Local name	Ethylene dichloride
ACGIH OEL TWA	10 ppm
Remark (ACGIH)	TLV [®] Basis: Liver dam; nausea. Notations: A4 (Not classifiable as a Human Carcinogen)
ACGIH chemical category	Not Classifiable as a Human Carcinogen
Regulatory reference	ACGIH 2024

8.1.2. Recommended monitoring procedures

Monitoring methods	
Monitoring methods	Personal air monitoring. Room air monitoring.

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

Additional information : Recommended monitoring procedures :. Personal air monitoring. Room air monitoring


8.1.5. Control banding

No additional information available

8.2. Exposure controls

Engineering measure(s) : Organisational measures to prevent/limit releases, dispersion and exposure. See Section 7 for information on safe handling. Use only outdoors or in a well-ventilated area. Take precautionary measures against static discharges. Ensure equipment is adequately earthed. Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.

Personal protective equipment : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.


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Hand protection	: Wear chemically resistant gloves (tested to EN374) . Suitable material: The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.
Eye protection	: Use suitable eye protection (EN166): goggles
Body protection	: Wear suitable protective clothing
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment. Half-face mask (DIN EN 140). full face mask (DIN EN 136). Filter type: The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used. (EN 137)
Thermal hazard protection	: Not required for normal conditions of use. Use dedicated equipment.
Environmental exposure controls	: Avoid release to the environment. Comply with applicable Community environmental protection legislation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Colourless to yellow.
Molecular weight	: 98,96 g/mol
Odour	: Chloroform.
Odour threshold	: 10 – 400 mg/m ³
Melting / freezing point	: -36 °C
Freezing point	: Not available
Initial boiling point and boiling range	: 83,6 °C
Flammability	: Flammable liquid and vapour.
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: 13 °C (Closed cup; DIN 51755 part 1)
Auto-ignition temperature	: 440 °C
Decomposition temperature	: 300 °C
pH	: No data available
Kinematic viscosity	: No data available
Dynamic viscosity	: 0,829 mPa.s (20 °C); 0.775 mPa.s (25 °C)
Solubility	: Soluble in: alcohols, Acetone, Diethyl ether, Carbon tetrachloride, aromatic hydrocarbons. Water: 7,9 g/l (25 °C)
Partition coefficient n-octanol/water (Log Kow)	: 1,45 (20 °C) (OECD 117)
Partition coefficient n-octanol/water	: No data available
Vapour pressure	: 102,47 hPa (25 °C)
Vapour pressure at 50°C	: Not available
Density	: 1253 kg/m ³ (20 °C)
Relative density	: 1,2455 (20 °C)
Vapour density	: 4,1 kg/m ³ (20 °C)
Particle characteristics	: Not applicable

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9.2. Other information

9.2.1. Information with regard to physical hazard classes

Explosion limits : 6,2 – 15,9 vol %

9.2.2. Other safety characteristics

Other properties : Henry's constant : 97.7 Pa.m³/mol

SECTION 10: Stability and reactivity

10.1. Reactivity

Highly flammable liquid and vapour. Reference to other sections: 10.4 & 10.5.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Vapours may form explosive mixture with air. No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Protect from sunlight. See Section 7 for information on safe handling.

10.5. Incompatible materials

oxidising substances. acids and bases. Finely divided metals (Al, Mg, Zn). Titanium.

10.6. Hazardous decomposition products

Reference to other sections 5.2.


SECTION 11: Toxicological information

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

Acute toxicity (oral) : Harmful if swallowed.
 Acute toxicity (dermal) : Not classified
 Acute toxicity (inhalation) : Inhalation:dust,mist: Harmful if inhaled.

1,2-Dichloroethane (107-06-2)	
LD50/oral/rat	680 mg/kg (Source: JAPAN_GHS)
LD50/dermal/rabbit	4890 mg/kg (Source: JAPAN_GHS)
LC50/inhalation/4h/rat	4 mg/l (Exposure time: 6 h Source: JAPAN_GHS)

Skin corrosion/irritation : Causes skin irritation.
 pH: No data available
 Serious eye damage/irritation : Causes serious eye irritation.
 pH: No data available

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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 : May cause cancer.

1,2-Dichloroethane (107-06-2)	
IARC group	2B - Possibly carcinogenic to humans

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

STOT-single exposure : May cause respiratory irritation.

1,2-Dichloroethane (107-06-2)	
STOT-single exposure	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)

1,2-dichloroethane (EDC) (107-06-2)	
Kinematic viscosity	No data available

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : The substance is not 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

11.2.2. Other information

Other adverse effects : May cause cancer

Other information : Symptoms related to the physical, chemical and toxicological characteristics, For further information see section 4

SECTION 12: Ecological information


12.1. Toxicity

Environmental properties : According to the criteria of the European classification and labelling system, the substance/the product has not to be labelled as "dangerous for the environment".

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

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

1,2-Dichloroethane (107-06-2)	
LC50 - Fish [1]	225 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static] Source: EPA)

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1,2-Dichloroethane (107-06-2)	
LC50 - Fish [2]	230 – 710 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through] Source: EPA)
EC50 - Crustacea [1]	140 – 190 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
EC50 96h - Algae [1]	> 433 mg/l (Species: Pseudokirchneriella subcapitata)
EC50 96h - Algae [2]	166 mg/l (Species: Desmodesmus subspicatus [static])

12.2. Persistence and degradability

1,2-dichloroethane (EDC) (107-06-2)	
Persistence and degradability	No additional information available.

12.3. Bioaccumulative potential

1,2-dichloroethane (EDC) (107-06-2)	
Partition coefficient n-octanol/water	No data available
Partition coefficient n-octanol/water (Log Kow)	1,45 (20 °C) (OECD 117)
Bioaccumulative potential	No additional information available.

1,2-Dichloroethane (107-06-2)	
BCF - Fish [1]	(2 dimensionless)
Partition coefficient n-octanol/water	1,45 (at 20 °C (at pH 7.4)


12.4. Mobility in soil

1,2-dichloroethane (EDC) (107-06-2)	
Mobility in soil	No data available
Surface tension	32,45 mN/m (20 °C); 31.75 mN/m (25 °C)

12.5. Results of PBT and vPvB assessment

1,2-dichloroethane (EDC) (107-06-2)	
Results of PBT assessment	Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	1,2-Dichloroethane (107-06-2)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	1,2-Dichloroethane (107-06-2)

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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 substance(s) are 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

Other adverse effects : No data available.

SECTION 13: Disposal considerations






13.1. Waste treatment methods


Product/Packaging disposal recommendations : Avoid release to the environment. Dispose of empty containers and wastes safely. See Section 7 for information on safe handling. Refer to manufacturer/supplier for information on recovery/recycling. Recycling is preferred to disposal or incineration. If recycling is not possible, eliminate in accordance with local valid waste disposal regulations. Handle contaminated packages in the same way as the substance itself. Dispose of contaminated materials in accordance with current regulations. Do not pierce or burn, even after use. Never use pressure to empty container.

European waste catalogue (2001/573/EC, 75/442/EEC, 91/689/EEC) : This material and its container must be disposed of as hazardous waste 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 or ID number				
1184	1184	1184	1184	1184
14.2. UN proper shipping name				
ETHYLENE DICHLORIDE	ETHYLENE DICHLORIDE	Ethylene dichloride	ETHYLENE DICHLORIDE	ETHYLENE DICHLORIDE
Transport document description				
UN 1184 ETHYLENE DICHLORIDE, 3 (6.1), II, (D/E)	UN 1184 ETHYLENE DICHLORIDE, 3 (6.1), II (13°C c.c.)	UN 1184 Ethylene dichloride, 3 (6.1), II	UN 1184 ETHYLENE DICHLORIDE, 3 (6.1), II	UN 1184 ETHYLENE DICHLORIDE, 3 (6.1), II
14.3. Transport hazard class(es)				
3 (6.1)	3 (6.1)	3 (6.1)	3 (6.1)	3 (6.1)
				
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

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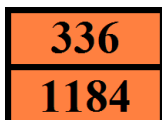
ADR	IMDG	IATA	ADN	RID
No supplementary information available				

14.6. Special precautions for user

Special precautions for user : No data available

- Overland transport


Classification code (ADR) : FT1
 Limited quantities (ADR) : 1I
 Excepted quantities (ADR) : E2
 Packing instructions (ADR) : P001, IBC02
 Mixed packing provisions (ADR) : MP19
 Portable tank and bulk container instructions (ADR) : T7
 Portable tank and bulk container special provisions (ADR) : TP1
 Tank code (ADR) : L4BH
 Tank special provisions (ADR) : TU15
 Vehicle for tank carriage : FL
 Transport category (ADR) : 2
 Special provisions for carriage - Loading, unloading and handling (ADR) : CV13, CV28
 Special provisions for carriage - Operation (ADR) : S2, S19
 Hazard identification number (Kemler No.) : 336
 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) : T7
 Tank special provisions (IMDG) : TP1
 EmS-No. (Fire) : F-E
 EmS-No. (Spillage) : S-D
 Stowage category (IMDG) : B
 Stowage and handling (IMDG) : SW2
 Segregation (IMDG) : SGG10
 Flash point (IMDG) : 13°C c.c.

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Properties and observations (IMDG) : Colourless liquid with a chloroform-like odour. Flashpoint: 13°C c.c. Explosive limits: 6.2% to 15.9%. Immiscible with water. Toxic by inhalation. Irritating to skin, eyes and mucous membranes.

- Air transport

PCA Excepted quantities (IATA) : E2
 PCA Limited quantities (IATA) : Y341
 PCA limited quantity max net quantity (IATA) : 1L
 PCA packing instructions (IATA) : 352
 PCA max net quantity (IATA) : 1L
 CAO packing instructions (IATA) : 364
 CAO max net quantity (IATA) : 60L
 ERG code (IATA) : 3P

- Inland waterway transport


Classification code (ADN) : FT1
 Special provisions (ADN) : 802
 Limited quantities (ADN) : 1 L
 Excepted quantities (ADN) : E2
 Carriage permitted (ADN) : T
 Equipment required (ADN) : PP, EP, EX, TOX, A
 Ventilation (ADN) : VE01, VE02
 Number of blue cones/lights (ADN) : 2

- Rail transport

Classification code (RID) : FT1
 Limited quantities (RID) : 1L
 Excepted quantities (RID) : E2
 Packing instructions (RID) : P001, IBC02
 Mixed packing provisions (RID) : MP19
 Portable tank and bulk container instructions (RID) : T7
 Portable tank and bulk container special provisions (RID) : TP1
 Tank codes for RID tanks (RID) : L4BH
 Special provisions for RID tanks (RID) : TU15
 Transport category (RID) : 2
 Special provisions for carriage - Loading, unloading and handling (RID) : CW13, CW28
 Colis express (express parcels) (RID) : CE7
 Hazard identification number (RID) : 336

14.7. Maritime transport in bulk according to IMO instruments

Code: IBC : No data available.

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SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
28.	1,2-dichloroethane (EDC) ; 1,2-Dichloroethane	Substances which are classified as carcinogen category 1A or 1B in Part 3 of Annex VI to Regulation (EC) No 1272/2008 and are listed in Appendix 1 or Appendix 2, respectively.
3(a)	1,2-dichloroethane (EDC) ; 1,2-Dichloroethane	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
3(b)	1,2-dichloroethane (EDC) ; 1,2-Dichloroethane	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
40.	1,2-dichloroethane (EDC) ; 1,2-Dichloroethane	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.

REACH Annex XIV (Authorisation List)

Listed on REACH Annex XIV (Authorisation List): 1,2-dichloroethane (EDC)

Contains substance(s) listed on REACH Annex XIV: 1,2-dichloroethane (EC 203-458-1, CAS 107-06-2)

REACH Candidate List (SVHC)

Listed on the REACH Candidate List: 1,2-dichloroethane

Contains substance(s) listed on the REACH Candidate List in concentrations $\geq 0.1\%$ or SCL: 1,2-dichloroethane (EC 203-458-1, CAS 107-06-2)

PIC Regulation (Prior Informed Consent)

Listed on the PIC list (Regulation EU 649/2012): Ethylene dichloride (1,2-dichloroethane)

POP Regulation (Persistent Organic Pollutants)


Not listed on the POP list (Regulation EU 2019/1021)

Ozone Regulation (EU 1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

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Explosives Precursors Regulation (2019/1148)


Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)


Detergent Regulation (648/2004/EC): Labelling of contents

15.1.2. National regulations

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France

Occupational diseases			
Code	Description		
RG 12	Occupational diseases caused by the halogenated aliphatic hydrocarbons listed below: dichloromethane; trichloromethane; tribromomethane; triiodomethane; tetrabromomethane; chloroethane; 1,1-dichloroethane; 1,2-dichloroethane; 1,2-dibromoethane; 1,1,1-trichloroethane; 2- bromopropane; 1,2-dichloropropane; trichlorethylene; tetrachlorethylene; dichloroacetylene; trichlorofluoromethane; 1,1,2,2-tetrachloro-1,2-difluoroethane; 1,1,1-trichloro-2,2,2-trifluoroethane; 1,1-dichloro-2,2,2-trifluoroethane; 1,2-dichloro-1,1-difluoroethane; 1,1-dichloro-1-fluoroethane		
Installations classées			
No ICPE	Désignation de la rubrique	Code Régime	Rayon
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	
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

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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

- Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG).
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).
- Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV; ID No. 102).
- Chemicals Prohibition Ordinance (ChemVerbotsV) : This product is subject to ChemVerbotsV Annex 2 Entry 1. The following requirements must be observed: authorization requirement (according to § 6 paragraph 1 sentence 1), basic requirements for carrying out the delivery (according to § 8 paragraph 1, 3 and 4), identification and documentation (according to § 9 paragraph 1 to 3) and exclusion of the shipping route (according to § 10).
- Hazardous Incident Ordinance (12. BlmSchV) : Listed in the 12. BlmSchV (Annex I) under: 1.1.2
- Quantity threshold for operational area under § 1 para. 1
- Sentence 1 :50000 kg
- Sentence 2 :200000 kg
Listed in the 12. BlmSchV (Annex I) under: 1.2.5.3
- Quantity threshold for operational area under § 1 para. 1
- Sentence 1 :5000000 kg
- Sentence 2 :50000000 kg

Netherlands

- Waterbezwaarlijkheid : B (4) - Weinig schadelijk voor in het water levende organismen
- SZW-lijst van kankerverwekkende stoffen : 1,2-Dichloroethane is listed
- SZW-lijst van mutagene stoffen : The substance is not listed
- SZW-lijst van reprotoxische stoffen – Borstvoeding : The substance is not listed
- SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : The substance is not listed
- SZW-lijst van reprotoxische stoffen – Ontwikkeling : The substance is not listed

Denmark


- Class for fire hazard : Class I-1
- Store unit : 1 liter
- Classification remarks : F <Flam. Liq. 2>; Emergency management guidelines for the storage of flammable liquids must be followed
- Danish National Regulations : 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
The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

Switzerland

- Chemicals Ordinance (ChemV, SR 813.11) : Group 1

15.2. Chemical safety assessment

Not applicable

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SECTION 16: Other information

Abbreviations and acronyms:

	ABM = Algemene beoordelingsmethodiek
	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
	BTT = Breakthrough time (maximum wearing time)
	DMEL = Derived Minimal Effect level
	DNEL = Derived No Effect Level
	EC50 = Median Effective Concentration
	EL50 = Median effective level
	ErC50 = EC50 in terms of reduction of growth rate
	ErL50 = EL50 in terms of reduction of growth rate
	EWC = European waste catalogue
	LC50 = Median lethal concentration
	LD50 = Median lethal dose
	LL50 = Median lethal level
	NA = Not applicable
	NOEC = No observed effect concentration
	NOEL: no-observed-effect level
	NOELR = No observed effect loading rate
	NOAEC = No observed adverse effect concentration
	NOAEL = No observed adverse effect level
	N.O.S. = Not Otherwise Specified
	OEL = Occupational Exposure Limits - Short Term Exposure Limits (STELs)
	PNEC = Predicted No Effect Concentration
	Quantitative structure-activity relationship (QSAR)
	STOT = Specific Target Organ Toxicity
	TWA = time weighted average
	VOC = Volatile organic compounds
	WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)


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

Training advice : Training staff on good practice.

Other information : For any further details or query please contact us at: stewardship@qapco.com.qa.

Full text of H- and EUH-statements:

Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Carc. 1B	Carcinogenicity, Category 1B
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
H225	Highly flammable liquid and vapour.

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H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H350	May cause cancer.
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation

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]

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