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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 : VINYL CHLORIDE MONOMER
Chemical name : vinyl chloride; chloroethylene
EC Index : 602-023-00-7
EC-No. : 200-831-0
CAS-No. : 75-01-4

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

1.2.1. Relevant identified uses

Main use category : Industrial uses, 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 gases, Category 1 H220
Gases under pressure : Liquefied gas H280
Carcinogenicity, Category 1A H350

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

Adverse physicochemical, human health and environmental effects

No additional information available

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2.2. Label elements

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

Hazard pictograms (CLP) :



GHS02

GHS04

GHS08

Signal word :

Danger

Hazard statements (CLP) :

H220 - Extremely flammable gas.
H280 - Contains gas under pressure; may explode if heated.
H350 - May cause cancer.

Precautionary statements (CLP) :

P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P308+P313 - IF exposed or concerned: Get medical advice/attention.
P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
P381 - In case of leakage, eliminate all ignition sources.
P403 - Store in a well-ventilated place.
P405 - Store locked up.
P410+P403 - Protect from sunlight. Store in a well-ventilated place.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Listed on CLP Annex VI :

EC Index-No.: 602-023-00-7

2.3. Other hazards

Other hazards :

Results of PBT and vPvB assessment : Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH 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

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance name :

VINYL CHLORIDE MONOMER

CAS-No. :


75-01-4

EC-No. :

200-831-0

EC Index :

602-023-00-7

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Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
vinyl chloride; chloroethylene	CAS-No.: 75-01-4 EC-No.: 200-831-0 EC Index: 602-023-00-7	> 99,9	Flam. Gas 1, H220 Press. Gas Carc. 1A, H350

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. Give oxygen or artificial respiration if necessary. 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. In case of doubt or persistent symptoms, consult always a physician.
Ingestion	: Get medical advice/attention.

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

Inhalation	: The following symptoms may occur: Depression of the central nervous system, headaches, dizziness, drowsiness, loss of coordination.
Skin contact	: The following symptoms may occur: Contact with liquid or refrigerated gas can cause cold burns and frostbite.
Eyes contact	: The following symptoms may occur: Contact with liquid or refrigerated gas can cause cold burns and frostbite.
Ingestion	: The following symptoms may occur: Ingestion unlikely.

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	: Foam. Dry powder. Carbon dioxide (CO ₂).
Unsuitable extinguishing media	: Strong water jet.

5.2. Special hazards arising from the substance or mixture

Specific hazards	: Extremely flammable. Heating will cause a rise in pressure with a risk of bursting.
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Explosion hazard : Can form explosive mixtures with air.

Hazardous decomposition products in case of fire : Hydrogen chloride. Carbon monoxide. 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 gas. Avoid contact with skin, eyes and clothing.

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.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Stop leak if safe to do so. Leave evaporate and disperse. This material and its container must be disposed of in a safe way, and as per local legislation.


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 product only in closed system. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Do not breathe gas. 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.

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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

Technical measures : Use spark-/explosionproof appliances and lighting system.
Storage conditions : Store in a dry, cool and well-ventilated place. Do not store near or with any of the incompatible materials listed in section 10.
Incompatible materials : Do not store near oxidizing agents.
Storage temperature : -16 – -14 °C
Heat and ignition sources : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Packaging materials : Keep only in the original container. Suitable material: Stainless steel, Ordinary steel. Unsuitable material: Aluminium, copper, Copper alloys.

Switzerland

Storage class (LK) : LK 2 - Liquefied or pressurized gases

7.3. Specific end use(s)


No data available.

SECTION 8: Exposure controls/personal protection


8.1. Control parameters

8.1.1 National occupational exposure and biological limit values


vinyl chloride; chloroethylene (75-01-4)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	2,6 mg/m ³ 1 ppm
EU - Binding Occupational Exposure Limit (BOEL)	
Local name	Vinyl chloride monomer
BOEL TWA	2,6 mg/m ³ 1 ppm
Regulatory reference	DIRECTIVE (EU) 2019/130 (amending Directive 2004/37/EC)
Albania - Occupational Exposure Limits	
Local name	Monomeri i klorurit të vinilit
OEL TWA	7,77 mg/m ³ 3 ppm
Regulatory reference	VENDIM Nr. 520, datë 6.8.2014 PËR MIRATIMIN E RREGULLORES "PËR MBROJTJEN E SIGURISË DHE SHËNDETIT TË PUNËMARRËSVE NGA RISQET E LIDHURA ME KANCEROGJENËT DHE MUTAGJENËT NË PUNË"

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vinyl chloride; chloroethylene (75-01-4)	
Austria - Occupational Exposure Limits	
Local name	Vinylchlorid (R 1140)
TRK (OEL TWA)	2,6 mg/m ³
	1 ppm
TRK (OEL STEL)	20 mg/m ³ (4x 15(Miw) min)
	8 ppm (4x 15(Miw) min)
Remark	Krebserzeugend: III A1
OEL chemical category	Group A1 Carcinogen
Regulatory reference	BGBl. II Nr. 156/2021
Belgium - Occupational Exposure Limits	
Local name	Chlorure de vinyle (monomère) # Vinylchloride (monomeer van)
OEL TWA	2,6 mg/m ³
	1 ppm
Remark	C: la mention "C" signifie que l'agent en question relève du champ d'application du titre 2 relatif aux agents cancérogènes, mutagènes et reprotoïques du livre VI du code de bien-être au travail. # 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.
OEL chemical category	Carcinogen
Regulatory reference	Koninklijk besluit/Arrêté royal 16/11/2023
Bulgaria - Occupational Exposure Limits	
Local name	Винилхлориден мономер
OEL TWA	2,6 mg/m ³
	1 ppm
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.)
Bulgaria - Biological limit values	
Local name	Винилхлорид
BLV	Parameter: Thiodiglicolic acid - Medium: urine - Sampling time: after several work shifts
Regulatory reference	Наредба № 13 от 30.12.2003 г. за защита на работещите от рискове, свързани с експозиция на химични агенти при работа (изм. и доп. ДВ. бр. 47 от 2021 г., в сила от 04.06.2021 г.)
Croatia - Occupational Exposure Limits	
Local name	Vinil-klorid monomer; kloroetilen
GVI (OEL TWA)	2,6 mg/m ³
	1 ppm

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vinyl chloride; chloroethylene (75-01-4)	
Remark	Direktiva: 2017/2398. Napomena: Karc 1A
OEL chemical category	Carcinogen Category 1A
Regulatory reference	Pravilnik o zaštitu radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 148/2023)
Cyprus - Occupational Exposure Limits	
Local name	Μονομερές βινυλοχλωρίδιο
OEL TWA	2,6 mg/m ³
	1 ppm
Remark	Καρκινογόνοι και Μεταλλαξιογόνοι Παράγοντες
Regulatory reference	Κανονισμοί του 2020 (Κ.Δ.Π. 282/2020)
Czech Republic - Occupational Exposure Limits	
Local name	Vinylchlorid (Chlorethen) monomer
PEL (OEL TWA)	2,6 mg/m ³ (524)
	1 ppm
NPK-P (OEL C)	5 mg/m ³
	1,92 ppm
Remark	K - karcinogen kategorie 1A a 1B (s větou H350, H350i).
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 330/2023 Sb.)
Denmark - Occupational Exposure Limits	
Local name	Vinylchlorid (Chlorethen)
OEL TWA	2,6 mg/m ³
	1 ppm
OEL STEL	5,2 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	Kloroeteen (vinüülkloriid)
OEL TWA	2,5 mg/m ³
	1 ppm
OEL STEL	13 mg/m ³
	5 ppm
Remark	A (Naha kaudu kergesti imenduv aine), C (Kantserogeenne aine)

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vinyl chloride; chloroethylene (75-01-4)	
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	Vinylikloridi
HTP (OEL TWA)	2,6 mg/m ³
	1 ppm
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveystministeriö)
France - Occupational Exposure Limits	
Local name	Chlorure de vinyle monomère (Chloroéthylène)
VME (OEL TWA)	2,59 mg/m ³ (restrictive limit)
	1 ppm (restrictive limit)
Remark	Valeurs réglementaires contraignantes. Cancérogène de catégorie 1A
OEL chemical category	Carcinogen category 1A
Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 6443, 2022; Outil65; Décret n° 2019-1487; Décret n° 2020-1546; Décret n° 2021-434; Décret n° 2021-1849)
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	Chlorethylen (Vinylchlorid)
Occupational exposure limit value (mg/m ³) (TRGS900)	2,6 mg/m ³ (carcinogenic substance Cat. 1A/1B)
Occupational exposure limit value (ppm) (TRGS900)	1 ppm (carcinogenic substance Cat. 1A/1B)
Peak exposure limitation factor	8(II)
Remark	AGS - Ausschuss für Gefahrstoffe; EU - Europäische Union (Von der EU wurde ein Luftgrenzwert festgelegt: Abweichungen bei Wert und Spitzenbegrenzung sind möglich); X - Krebserzeugender Stoff der Kat. 1A oder 1B oder krebserzeugende Tätigkeit oder Verfahren nach § 2 Absatz 3 Nr. 4 der Gefahrstoffverordnung – es ist zusätzlich § 10 GefStoffV zu beachten
Regulatory reference	TRGS900
Gibraltar - Occupational Exposure Limits	
Local name	Vinyl chloride monomer
OEL TWA	2,6 mg/m ³
	1 ppm
Regulatory reference	Factories (Control of Carcinogens and mutagens at Work) Regulations 2003 (LN. 2020/47)
Greece - Occupational Exposure Limits	
Local name	Μονομερές βινυλοχλωρίδιο
OEL TWA	2,6 mg/m ³

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vinyl chloride; chloroethylene (75-01-4)	
	1 ppm
Regulatory reference	Π.Δ. 26/2020 - Σχετικά με την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με την έκθεση σε καρκινογόνους ή μεταλλαξιγόνους παράγοντες κατά την εργασία
Hungary - Occupational Exposure Limits	
Local name	VINIL-KLORID
AK (OEL TWA)	2,6 mg/m ³
Remark	k(1A) (rákkeltő); EU6 (2019/130 EU irányelvben közölt érték); T (Azok az anyagok, amelyek egészségkárosító hatása TARTÓS expozíciót követően jelentkezik)
OEL chemical category	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	Vinyl chloride monomer (VCM) [Chloroethylene]
OEL TWA	2,6 mg/m ³
	1 ppm
OEL STEL	7,8 mg/m ³ (calculated)
	3 ppm (calculated)
Remark	BOELV (Binding Occupational Exposure Limit Values), Carc.1A (Substances known to have carcinogenic potential for humans)
OEL chemical category	Carc1A
Regulatory reference	Chemical Agents Code of Practice 2024
Italy - Occupational Exposure Limits	
Local name	Cloruro di vinile monomero
OEL TWA	2,6 mg/m ³
	1 ppm
Regulatory reference	Allegato XLIII del D.Lgs. 9 aprile 2008, n. 81 e s.m.i.
Latvia - Occupational Exposure Limits	
Local name	Vinilhlōrīda monomērs (vinilhlōrīds)
OEL TWA	2,6 mg/m ³
	1 ppm
Remark	Carc. 1A
Regulatory reference	Ministru kabineta 2008. gada 29. septembra noteikumi Nr. 803 (Grozījumi Ministru kabineta 2020. gada 7. janvārī noteikumiem Nr. 10).
Lithuania - Occupational Exposure Limits	
Local name	Vinilchlorido monomeras
IPRV (OEL TWA)	2,6 mg/m ³

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vinyl chloride; chloroethylene (75-01-4)	
	1 ppm
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)
Malta - Occupational Exposure Limits	
Local name	Vinyl chloride monomer # Monomeru tal-vinil klorur
OEL TWA	2,6 mg/m ³ 1 ppm
Regulatory reference	S.L.424.22 - Exposure to carcinogens or mutagens at work (L.N.51 of 2021)
Netherlands - Occupational Exposure Limits	
Local name	Vinylchloridemonomeer
TGG-8u (OEL TWA)	2,6 mg/m ³ 1 ppm
Remark	Kankerverwekkende stof
Regulatory reference	Arbeidsomstandighedenregeling 2024
Poland - Occupational Exposure Limits	
Local name	Chloroeten (chlorek winylu)
NDS (OEL TWA)	2,6 mg/m ³
Regulatory reference	Dz. U. 2018 poz. 1286 wraz z późn. zm.
Portugal - Occupational Exposure Limits	
Local name	Cloreto de vinilo
OEL TWA	2,6 mg/m ³ (indicative limit value) 1 ppm (indicative limit value)
OEL chemical category	A1 - Confirmed Human Carcinogen
Remark	A1 (Agente carcinogénico confirmado no Homem)
Regulatory reference	Norma Portuguesa NP 1796:2014
Romania - Occupational Exposure Limits	
Local name	Clorură de vinil (monomer)
OEL TWA	2,6 mg/m ³ (monomer) 1 ppm (monomer)
OEL chemical category	C1A
Remark	C1A - poate provoca apariția cancerului
Regulatory reference	Hotărârea Guvernului nr. 1.218/2006 (Hotărârea nr. 53/2021)
Serbia - Occupational Exposure Limits	
Local name	винил-хлорид мономер; хлороетилен

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vinyl chloride; chloroethylene (75-01-4)

OEL TWA	3 mg/m ³ 1 ppm
Remark	EY0 – напомена да се ради о хемијским материјама за које су утврђене обавезујуће граничне вредности изложености према Директиви 1999/38/ЕЗ и Директиви 98/24/ЕЗ
Regulatory reference	ПРАВИЛНИК о превентивним мерама за безбедан и здрав рад при излагању хемијским материјама („Службени гласник РС”, бр. 106/09, 117/17 и 107/21)

Slovakia - Occupational Exposure Limits


Local name	Monomér vinylchloridu (chlóretén)
NPHV (OEL TWA)	2,6 mg/m ³ (TSH) 1 ppm (TSH)
Remark	Kategória karcinogénov 1A – Dokázaný karcinogén pre ľudí
Regulatory reference	Nariadenie vlády č. 356/2006 Z. z. (235/2020 Z. z.)

Slovenia - Occupational Exposure Limits


Local name	vinilklorid - monomer (kloroetilen)
OEL TWA	2,6 mg/m ³ 1 ppm
Remark	EU, EKA (Zveza med koncentracijo rakotvornih snovi v zraku na delovnem mestu in količino snovi in/ali njenih metabolitov v organizmu)
OEL chemical category	Category 1A
Regulatory reference	Uradni list RS, št. 79/2019 z dne 24.12.2019

Spain - Occupational Exposure Limits

Local name	Cloruro de vinilo (Cloroetileno)
VLA-ED (OEL TWA)	2,6 mg/m ³ (manufacturing, commercialization and use restrictions according to REACH) 1 ppm (manufacturing, commercialization and use restrictions according to REACH)
Remark	C1A (Carcinógeno para el hombre), v (Agente cancerígeno con valor límite vinculante recogido en el anexo III del Real Decreto 665/1997 y en sus modificaciones posteriores), r (Esta sustancia tiene establecidas restricciones a la fabricación, la comercialización o el uso en los términos especificados en el “Reglamento (CE) n° 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).
OEL chemical category	C1A
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2024. INSHT

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vinyl chloride; chloroethylene (75-01-4)	
Sweden - Occupational Exposure Limits	
Local name	Vinylklorid
NGV (OEL TWA)	2,5 mg/m ³
	1 ppm
KGV (OEL STEL)	13 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)
OEL chemical category	Skin notation, Carcinogen
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
United Kingdom - Occupational Exposure Limits	
Local name	Vinyl chloride
WEL TWA (OEL TWA)	2,6 mg/m ³
	1 ppm
WEL STEL (OEL STEL)	7,8 mg/m ³ (calculated)
	3 ppm (calculated)
Remark	Carc (Capable of causing cancer and/or heritable genetic damage)
WEL chemical category	Capable of causing cancer and/or heritable genetic damage
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
Iceland - Occupational Exposure Limits	
Local name	Vínýklóríð (klóreten)
OEL STEL	2,5 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	Vinylklorid, monomer (Klõreten)
Grenseverdi (OEL TWA)	2,6 mg/m ³
	1 ppm
Korttidsverdi (OEL STEL)	5,2 mg/m ³ (value calculated)
	3 ppm (value calculated)
Remark	K: Kjemikalier som skal betraktes som kreftfremkallende; G: EU har fastsatt en bindende grenseverdi og/eller anmerkning for stoffet.

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vinyl chloride; chloroethylene (75-01-4)

OEL chemical category	Carcinogen
Regulatory reference	FOR-2023-12-18-2278

North Macedonia - Occupational Exposure Limits

Local name	винилхлорид (хлоретилен)
OEL TWA	7,77 mg/m ³
	3 ppm
Remark	(TDK) техничко достигнување на концентрацијата – е дадено за канцерогените супстанции и значи концентрација на супстанции во воздухот на работното место, кои можат да се достигнат со достапните техники; (EKA) поврзаноста помеѓу концентрацијата на канцерогени супстанции во воздухот на работното место и износ на количината на канцерогените супстанции и/или нивните метаболити во организмот – дадена за канцерогени супстанции (канцерогени); (EU) European Union – гранична вредност, определена на ниво на Европската унија
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) и Правилник за минималните барања за безбедност и здравје при работа на вработени од ризици поврзани со изложување на канцерогени, мутагени или супстанции („Службен весник на Република Македонија“ бр.110/10)

Switzerland - Occupational Exposure Limits


Local name	Chlorure de vinyle (monomère) / Vinylchlorid (Monomer)
MAK (OEL TWA)	2,6 mg/m ³
	1 ppm
Notation	C1A / C1A
Remark	HSE, NIOSH, DFG, OSHA, BG
OEL chemical category	Category C1A carcinogen
Regulatory reference	www.suva.ch, 01.01.2024

USA - ACGIH - Occupational Exposure Limits

Local name	Vinyl chloride
ACGIH OEL TWA	1 ppm
Remark (ACGIH)	TLV® Basis: Lung cancer; liver dam. Notations: A1 (Confirmed Human Carcinogen)
ACGIH chemical category	Confirmed Human Carcinogen
Regulatory reference	ACGIH 2024

8.1.2. Recommended monitoring procedures

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

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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)	: Provide adequate ventilation. Organisational measures to prevent/limit releases, dispersion and exposure. See Section 7 for information on safe handling.
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.
Hand protection	: Wear chemically resistant gloves (tested to EN374) . Suitable material: VITON gloves, PVC or other plastic material gloves, Fluorinated rubber. 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	: Safety glasses. face shield
Body protection	: Wear suitable protective clothing
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment. full face mask (DIN EN 136). 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	: Gas
Colour	: Colourless.
Appearance	: Liquefied gas. Liquid. Gas.
Odour	: ether-like.
Odour threshold	: 3000 ppm No data available
Melting / freezing point	: -153,7 °C
Freezing point	: Not applicable
Initial boiling point and boiling range	: -14 °C
Flammability	: Not available
Lower explosion limit	: 3,6 vol %
Upper explosion limit	: 33 vol %
Flash point	: -78 °C (closed cup)

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Auto-ignition temperature	: 472 °C
Decomposition temperature	: No data available
pH	: No data available
Kinematic viscosity	: No data available
Dynamic viscosity	: 0,001 mPa·s
Solubility	: soluble in most organic solvents. Water: 9,15 g/l (20.5°C)
Partition coefficient n-octanol/water (Log Kow)	: 1,58 (22°C)
Partition coefficient n-octanol/water	: No data available
Vapour pressure	: 1750 hPa (0°C); 3400 hPa (20°C); 7600 hPa (48°C)
Vapour pressure at 50°C	: Not available
Critical pressure	: 55900 hPa
Density	: 910 kg/m ³ (20°C); 970 kg/m ³ (-14°C) (liquid)
Relative density	: No data available
Vapour density	: 8 kg/m ³ (15°C; 2900 hPa)
Particle characteristics	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Critical temperature : 156 °C

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reference to other sections: 10.4 & 10.5.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

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.

10.5. Incompatible materials

Oxidizing agent. See Section 7 for information on safe handling.

10.6. Hazardous decomposition products

Hydrogen chloride.

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SECTION 11: Toxicological information

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

Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)

vinyl chloride; chloroethylene (75-01-4)	
LD50/oral/rat	500 mg/kg (Source: NLM_CIP)
LC50/inhalation/4h/rat	390 mg/l (Exposure time: 2 h Source: ECHA_API)

Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: No data available
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: No data available
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.

vinyl chloride; chloroethylene (75-01-4)	
IARC group	1 - Carcinogenic to humans


Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not applicable

VINYL CHLORIDE MONOMER (75-01-4)	
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 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 %
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11.2.2. Other information

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

vinyl chloride; chloroethylene (75-01-4)

LC50 - Fish [1]	210 mg/l (Exposure time: 96 h - Species: Brachydanio rerio Source: IUCLID)
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12.2. Persistence and degradability

VINYL CHLORIDE MONOMER (75-01-4)

Persistence and degradability	No additional information available.
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12.3. Bioaccumulative potential

VINYL CHLORIDE MONOMER (75-01-4)

Partition coefficient n-octanol/water	No data available
Partition coefficient n-octanol/water (Log Kow)	1,58 (22°C)
Bioaccumulative potential	No additional information available.

vinyl chloride; chloroethylene (75-01-4)

BCF - Fish [1]	(no significant bioaccumulation)
Partition coefficient n-octanol/water	1,38 – 1,58 (at 20 °C (at pH >5-<9)

12.4. Mobility in soil


VINYL CHLORIDE MONOMER (75-01-4)

Mobility in soil	No data available
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12.5. Results of PBT and vPvB assessment

VINYL CHLORIDE MONOMER (75-01-4)

Results of PBT assessment	Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII
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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.


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				
1086	1086	1086	1086	1086
14.2. UN proper shipping name				
VINYL CHLORIDE, STABILIZED	VINYL CHLORIDE, STABILIZED	Vinyl chloride, stabilized	VINYL CHLORIDE, STABILIZED	VINYL CHLORIDE, STABILIZED
Transport document description				
UN 1086 VINYL CHLORIDE, STABILIZED, 2.1, (B/D)	UN 1086 VINYL CHLORIDE, STABILIZED, 2.1	UN 1086 Vinyl chloride, stabilized, 2.1	UN 1086 VINYL CHLORIDE, STABILIZED, 2.1	UN 1086 VINYL CHLORIDE, STABILIZED, 2.1
14.3. Transport hazard class(es)				
2.1	2.1	2.1	2.1	2.1
				
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
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

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14.6. Special precautions for user

Special precautions for user : No data available

- Overland transport

Classification code (ADR) : 2F
Special provisions : 386, 662, 676
Limited quantities (ADR) : 0
Excepted quantities (ADR) : E0
Packing instructions (ADR) : P200
Mixed packing provisions (ADR) : MP9
Portable tank and bulk container instructions (ADR) : (M), T50
Tank code (ADR) : PxBN(M)
Tank special provisions (ADR) : TA4, TT9
Vehicle for tank carriage : FL
Transport category (ADR) : 2
Special provisions for carriage - Packages (ADR) : V8
Special provisions for carriage - Loading, unloading and handling (ADR) : CV9, CV10, CV36
Special provisions for carriage - Operation (ADR) : S2, S4, S20
Hazard identification number (Kemler No.) : 239
Orange plates :

239
1086


Tunnel restriction code : B/D
EAC code : 2YE

- Transport by sea

Special provisions (IMDG) : 386
Limited quantities (IMDG) : 0
Excepted quantities (IMDG) : E0
Packing instructions (IMDG) : P200
Tank instructions (IMDG) : T50
EmS-No. (Fire) : F-D
EmS-No. (Spillage) : S-U
Stowage category (IMDG) : B
Stowage and handling (IMDG) : SW1, SW2
Properties and observations (IMDG) : Liquefied, flammable gas. Explosive limits: 4% to 31%. Much heavier than air (2.2).

- Air transport

PCA Excepted quantities (IATA) : E0
PCA Limited quantities (IATA) : Forbidden

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PCA limited quantity max net quantity (IATA) : Forbidden
 PCA packing instructions (IATA) : Forbidden
 PCA max net quantity (IATA) : Forbidden
 CAO packing instructions (IATA) : 200
 CAO max net quantity (IATA) : 150kg
 Special provisions (IATA) : A1, A209
 ERG code (IATA) : 10L

- Inland waterway transport


Classification code (ADN) : 2F
 Special provisions (ADN) : 386, 662, 676
 Limited quantities (ADN) : 0
 Excepted quantities (ADN) : E0
 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) : 2F
 Special provisions (RID) : 386, 662, 676
 Limited quantities (RID) : 0
 Excepted quantities (RID) : E0
 Packing instructions (RID) : P200
 Mixed packing provisions (RID) : MP9
 Portable tank and bulk container instructions (RID) : T50(M)
 Tank codes for RID tanks (RID) : PxBN(M)
 Special provisions for RID tanks (RID) : TU38, TE22, TA4, TT9, TM6
 Transport category (RID) : 2
 Special provisions for carriage - Loading, unloading and handling (RID) : CW9, CW10, CW36
 Colis express (express parcels) (RID) : CE3
 Hazard identification number (RID) : 239

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
2.	VINYL CHLORIDE MONOMER ; vinyl chloride; chloroethylene	Chloroethene (vinyl chloride)
28.	VINYL CHLORIDE MONOMER ; vinyl chloride; chloroethylene	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.
40.	VINYL CHLORIDE MONOMER ; vinyl chloride; chloroethylene	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)

Not listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Not listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Not listed on the PIC list (Regulation EU 649/2012)

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.

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)

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


15.1.2. National regulations

France

Occupational diseases			
Code	Description		
RG 52	Diseases caused by vinyl chloride monomer		
RG 52 BIS	Hepatocellular carcinoma caused by exposure to vinyl chloride monomer		
RG 66	Occupational rhinitis and asthma		
Installations classées			
No ICPE	Désignation de la rubrique	Code Régime	Rayon
4310.text	Gaz inflammables catégorie 1 et 2. La quantité totale susceptible d'être présente dans les installations y compris dans les cavités souterraines (strates naturelles, aquifères, cavités salines et mines désaffectées) étant :		
4310.1	1. Supérieure ou égale à 10 t 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
4310.2	2. Supérieure ou égale à 1 t et inférieure à 10 t 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	2
4718.text	Gaz inflammables liquéfiés de catégorie 1 et 2 (y compris GPL) et gaz naturel (y compris biogaz affiné, lorsqu'il a été traité conformément aux normes applicables en matière de biogaz purifié et affiné, en assurant une qualité équivalente à celle du gaz naturel, y compris pour ce qui est de la teneur en méthane, et qu'il a une teneur maximale de 1 % en oxygène). La quantité totale susceptible d'être présente dans les installations y compris dans les cavités souterraines (strates naturelles, aquifères, cavités salines et mines désaffectées) étant :		
4718.1	1. Supérieure ou égale à 50 t Quantité seuil bas au sens de l'article R. 511-10 : 50 t. Quantité seuil haut au sens de l'article R. 511-10 : 200 t.	A	1
4718.2	2. Supérieure ou égale à 6 t mais inférieure à 50 t Quantité seuil bas au sens de l'article R. 511-10 : 50 t. Quantité seuil haut au sens de l'article R. 511-10 : 200 t.	DC	1

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 2, Significantly hazardous to water (Classification according to AwSV; ID No. 462).

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Hazardous Incident Ordinance (12. BlmSchV) : Listed in the 12. BlmSchV (Annex I) under: 1.2.2
 - Quantity threshold for operational area under § 1 para. 1
 - Sentence 1 :10000 kg
 - Sentence 2 :50000 kg

Netherlands

Waterbezwaarlijkheid : B (5) - Weinig schadelijk voor in het water levende organismen
 SZW-lijst van kankerverwekkende stoffen : VINYL CHLORIDE MONOMER 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. Gas 1; Press. Gas (Liq.)>; 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.

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

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	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. Manipulations are to be done only by qualified and authorised persons.

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

Full text of H- and EUH-statements:

Carc. 1A	Carcinogenicity, Category 1A
Flam. Gas 1	Flammable gases, Category 1
H220	Extremely flammable gas.
H280	Contains gas under pressure; may explode if heated.
H350	May cause cancer.
Press. Gas	Gases under pressure
Press. Gas (Liq.)	Gases under pressure : Liquefied gas

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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