SAFETY DATA SHEET



Ethylene 99.8% Grade

Version 1.2

Revision Date 2023-06-16

According to Regulation (EC) No. 1907/2006, Regulation (EC) No. 2020/878

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

1.1 Product identifier **Product information** I Ν

Product Name	:	Ethylene 99.8% Grade
Material	:	1083870, 1085526, 1100705, 1015414

1.2	Relevant identified uses of the	e substance or mixture and uses advised against
		Feedstock
1.3	Details of the supplier of the s	afety data sheet
	Company :	Chevron Phillips Chemical Company LP 10001 Six Pines Drive The Woodlands, TX 77380
	Local :	Chevron Phillips Chemicals International N.V. Airport Plaza (Stockholm Building) Leonardo Da Vincilaan 19 1831 Diegem Belgium
		SDS Requests: (800) 852-5530 Responsible Party: Product Safety Group Email:sds@cpchem.com
1.4	Emergency telephone:	
	Mexico CHEMTREC 01-800- South America SOS-Cotec Ir Argentina: +(54)-1159839431	l) r 703.527.3887(int'l) 186 1132) China: 0532 8388 9090 681-9531 (24 hours) iside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600
SDS	S Number:100000067812	1/15

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	 Denmark: Danish Poison Center (Giftlinjen) Estonia: BIG +32.14.584545 (phone) or +32 Finland: 0800 147 111 09 471 977 (24 hour France: ORFILA number (INRS): + 33 (0) 1 Germany: BIG +32.14.584545 (phone) or + Greece: (0030) 2107793777 (24 hours/day Hungary: +36-80-201-199 (24 hours/day, 7 Iceland: 543 2222 (24 hours/day, 7 days/we Ireland: BIG +32.14.584545 (phone) or +32 Italy: BIG +32.14.584545 (phone) or +32.14 Latvia: State Fire and Rescue Service, pho Poisoning and Drug Information Center, H 67042473. (24 hours.) Liechtenstein: BIG +32.14.584545 (phone) Lithuania: +370 (85) 2362052 Luxembourg: (+352) 8002 5500 (24 hours/day Malta: +356 2395 2000 The Netherlands: NVIC: +31 (0)88 755 800 Norway: 22 59 13 00 (24 hours/day, 7 days Poland: BIG +32.14.584545 (phone) or +32 Portugal: CIAV phone number: +351 800 2 Romania: +40213183606 Slovakia: +421 2 5477 4166 Slovenia: Phone number: 112 	 7, 7 days/week) //, 7 days/week) //, 7 days/week) //, 7 days/week) //, 7 days/state //, 7 days/week) //, 7 days
	Responsible Department:Product SafeE-mail address:SDS@CPChWebsite:www.CPChe	
SEC	CTION 2: Hazards identification	
2.1		
	Classification of the substance or mixture REGULATION (EC) No 1272/2008	
	· · · · · · · · · · · · · · · · · · ·	1220:
	Gases under pressure, Liquefied gas	Extremely flammable gas. H280: Contains gas under pressure; may explode if neated.
	Specific target organ toxicity - single	H336: May cause drowsiness or dizziness.

2.2

Labeling (REGULATION (EC) No 1272/2008)

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thylene 99.8% Grade		
ersion 1.2		Revision Date 2023-06-1
Hazard pictograms		
Signal Word	: Danger	• •
Hazard Statements	: H220 H280	Extremely flammable gas. Contains gas under pressure; may explode if heated.
	H336	May cause drowsiness or dizziness.
Precautionary Statements	: Preven P210	t ion: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P261	Avoid breathing dust/ fume/ gas/ mist/
	Respor	
	P377	Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
	P381	In case of leakage, eliminate all ignition sources.
	Storage P403 +	e:
	P410 +	container tightly closed.
■ 74-85-1 Eth		ed on the label:
	iylene : This su be eithe	bstance/mixture contains no components considered to er persistent, bioaccumulative and toxic (PBT), or very ent and very bioaccumulative (vPvB) at levels of 0.1%
.3 Other hazards Results of PBT and vPvB	: This su be eithe persiste or highe : The su conside to REA (EU) 20	bstance/mixture contains no components considered to er persistent, bioaccumulative and toxic (PBT), or very ent and very bioaccumulative (vPvB) at levels of 0.1%
3 Other hazards Results of PBT and vPvB assessment Endocrine disrupting	: This su be eithe persiste or highe : The su conside to REA (EU) 20 levels o	bstance/mixture contains no components considered to er persistent, bioaccumulative and toxic (PBT), or very ent and very bioaccumulative (vPvB) at levels of 0.1% er. bstance/mixture does not contain components ered to have endocrine disrupting properties according CH Article 57(f) or Commission Delegated regulation 017/2100 or Commission Regulation (EU) 2018/605 at of 0.1% or higher.
3 Other hazards Results of PBT and vPvB assessment Endocrine disrupting properties ECTION 3: Composition/infor	: This su be eithe persiste or highe : The su conside to REA (EU) 20 levels o	bstance/mixture contains no components considered to er persistent, bioaccumulative and toxic (PBT), or very ent and very bioaccumulative (vPvB) at levels of 0.1% er. bstance/mixture does not contain components ered to have endocrine disrupting properties according CH Article 57(f) or Commission Delegated regulation 017/2100 or Commission Regulation (EU) 2018/605 at of 0.1% or higher.
3 Other hazards Results of PBT and vPvB assessment Endocrine disrupting properties	: This sul be eithe persiste or highe : The su conside to REA (EU) 20 levels of : Ethylene Ethene	bstance/mixture contains no components considered to er persistent, bioaccumulative and toxic (PBT), or very ent and very bioaccumulative (vPvB) at levels of 0.1% er. bstance/mixture does not contain components ered to have endocrine disrupting properties according CH Article 57(f) or Commission Delegated regulation 017/2100 or Commission Regulation (EU) 2018/605 at of 0.1% or higher.

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Molecular formula : C2H4

Hazardous ingredients

Chemical name	CAS-No. EC-No. Index No.	Classification (REGULATION (EC) No 1272/2008)	Concentration [wt%]	Specific Conc. Limits, M-factors and ATEs
Ethylene	74-85-1 200-815-3 601-010-00-3	Flam. Gas 1; H220 Press. Gas Compr. Gas; H280 Press. Gas Compr. Gas,; STOT SE 3; H336	99,8 - 100	

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1

4.1	Description of first-aid mea	su	res
	General advice	:	Move out of dangerous area. Show this material safety data sheet to the doctor in attendance.
	If inhaled	:	Consult a physician after significant exposure. If unconscious, place in recovery position and seek medical advice.
	In case of eye contact	:	Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
	If swallowed	:	Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.
4.2	Most important symptoms a Notes to physician	and	effects, both acute and delayed
	Symptoms	:	No data available.
4.3	Risks Indication of any immediate	: m	No data available. edical attention and special treatment needed
	Treatment	:	No data available.
SEC	CTION 5: Firefighting measur	res	
	Flash point	:	-136°C (-213°F) Method: closed cup
	Autoignition temperature	:	490°C (914°F)
5.1	Extinguishing media		
	Suitable extinguishing media	:	Alcohol-resistant foam. Carbon dioxide (CO2). Dry chemical.
	media		

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Version 1.2 Revision Date 2023-06-16 Unsuitable extinguishing media : High volume water jet. 5.2 Special hazards arising from the substance or mixture Specific hazards during fire in Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. 5.3 Advice for firefighters Special protective equipment for fire-fighters inclosed containments. Use a water spray to cool fully closed containments. Use a water spray to cool fully closed containers. Further information information in the substance or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition. Hazardous decomposition in the thane. Hydrogen. products Methane. Hydrogen. SECTION 6: Accidental release measures Environmental precautions 6.1 Personal precautions : Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors can accumulating to form explosive concentrations. Vapors can accumulate in low areas. 6.2 Environmental precautions : Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities. 6.4 Reference to other sections : For personal protection see section 8. For disposal considerations see section 13.	 Unsuitable extinguishing : High volume water jet. media 5.2 Special hazards arising from the substance or mixture Specific hazards during fire : Use extinguishing measures that are appropriate to local substance or mixture substance o	2023-06-16
Unsuitable extinguishing : High volume water jet. Special hazards arising from the substance or mixture Specific hazards during fire : Specific hazards during fire : Use extinguishing measures that are appropriate to local fighting fighting : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Social protective : Wear self-contained breathing apparatus for firefighting if necessary. Further information : For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers. Fire and explosion : Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ginotion of organic vapors). Use only explosion-proot equipment. Keep away from open flames, hot surfaces and sources of ginition. Hazardous decomposition : Methane. Hydrogen. Protocts : Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulating to form explosive concentrations. Vapors can accumulating to form explosive concentrations. Vapors can accumulate in low areas. SECTION 6: Accidental precautions : Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product cont	 Unsuitable extinguishing : High volume water jet. media 5.2 Special hazards arising from the substance or mixture Specific hazards during fire : Use extinguishing measures that are appropriate to local 	2020 00 10
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Fth	ylene 99.8% Grade	2			SAFE	TY DATA SHEET
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ver	50111.2		pressure. national re		water in accordance v	
	Advice on protection against fire and explosion	:	Take nece (which mig explosion-	ssary action to av	me or any incandesco oid static electricity d of organic vapors). L Keep away from ope tion.	ischarge Jse only
7.2	Conditions for safe storage	ge, in	cluding an	y incompatibilitie	es	
	Storage					
	Requirements for storage areas and containers	:	tightly clos	ed in a dry and we s. Electrical insta	s. No smoking. Kee ell-ventilated place. (llations / working ma al safety standards.	Observe label
SEC	TION 8: Exposure controls	s/per	sonal prote	ection		
		•	•			
8.1 SE	Control parameters Ingredients with workplac	e co	ntrol paran	neters		
Bes	tåndsdelar		ndval	Värde	Kontrollparametrar	Anmärkning
Ethy	ylene	SE A SE A		NGV KGV	250 ppm, 330 mg/m3 1.000 ppm, 1.200 mg/m3	V,
	V Vägledande korttidsgränsvä				a värde som inte bör överskri	
PT Con	nponentes	Bas	es	Valor	Parâmetros de controlo	Nota
Ethy	ylene A4 Agente não classificável cor	PT C		VLE-MP	200 ppm,	A4,
_V	A4 Agente nao classificavel col	no can		Jinem.		
	tāvdaļas	Bāz	е	Vērtība	Pārvaldības parametri	Piezīme
Ethy	ylene	LV O	EL	AER 8 st	100 mg/m3	
T	nponentai	Šalti	inio	Vertė	Kontrolės parametrai	Pastaba
	ylene	LT O	-	IPRD	100 mg/m3	Fasiaba
Е						
Con	nponents	Basi	s	Value	Control parameters	Note
Ethy	ylene Asphx Gaseous chemical substanc in high oncentrations will ac		ch may not prod		200 ppm, cal effects in the exposed emp	Asphx, bloyee, but when present
FI Aine	eosat	Peru	uste	Arvo	Valvontaa koskevat muuttujat	Huomautus
Ethy	ylene	FIO		HTP-arvot 8h	200 ppm,	Liite 4,
	Liite 4 Happea syrjäyttämällä tukel	nduttav	at kaasut			
ES	nnononton	Der	2	Valor	Dorámetros de control	Noto
	nponentes ylene	Bas ES V		Valor VLA-ED	Parámetros de control 200 ppm,	Nota
CH		•				
	altsstoffe	Gru	ndlage	Wert	Zu überwachende Parameter	Bemerkung
Ethy	ylene	СН 5	SUVA	MAK-Wert	10.000 ppm, 11.500 mg/m3	M2, NIOSH,
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Version 1.2

Revision Date 2023-06-16

M2 Stoffe, die für den Menschen bedenklich sind, weil sie möglicherweise vererbbare Mutationen in Keimzellen von Menschen auslösen können

NIOSH National Institute for Occupational Safety and Health

BE

Bestanddelen	Basis	Waarde	Controleparameters	Opmerking
Ethylene	BE OEL	TGG 8 hr	200 ppm, 233 mg/m3	Α,
A Deze stoffen geven gassen of dampen vrij die op zich geen fysiologische werking hebben, maar die het zuurstofgehalte in de lucht kunnen verlagen. Wanneer het zuurstofgehalte daalt onder de 17-18 % (vol/vol), veroorzaakt het zuurstoftekort verstikking, die zich manifesteert zonder dat er een waarschuwing aan voorafgaat.				5

Biological exposure indices

sκ

Názov látky	Č. CAS	Kontrolné parametre	Doba odberu vzorky	Aktualizácia
Ethylene	74-85-1	hydroxyetylvalín: 180 µg/l koniec vystavenia, resp. koniec pracovnej zmeny (červené krvinky)	žiadne obmedzenie	2011-11-23
		hydroxyetylvalín: 1.12 µmol.l-1 koniec vystavenia, resp. koniec pracovnej zmeny (červené krvinky)	žiadne obmedzenie	2011-11-23

8.2

Exposure controls Engineering measures

Adequate ventilation to control airborned concentrations below the exposure guidelines/limits. Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

Personal protective equipment

Respiratory protection	:	If ventilation or other engineering controls are not adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure, a supplied-air NIOSH approved respirator may be appropriate. If exposure to harmful levels of airborne material may occur, a NIOSH approved respirator that provides protection may be appropriate, such as:. Air-Purifying Respirator for Organic Vapors, Dusts and Mists. A positive pressure, air-supplying respirator may be appropriate if there is potential for uncontrolled release, aerosolization, exposure levels are not known, or other circumstances where air- purifying respirators may not provide adequate protection.
Hand protection	:	The suitability for a specific workplace should be discussed with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
Eye protection	:	Eye wash bottle with pure water. Safety glasses.
Skin and body protection	:	Choose body protection in relation to its type, to the
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	concentration and amount of dangerous substances, and to the specific work-place. Wear as appropriate:. Flame retardant antistatic protective clothing. Workers should wear antistatic footwear.
Hygiene measures	: Wash hands before breaks and at the end of workday.
CTION 9: Physical and cher	nical properties
Information on basic phys	sical and chemical properties
Appearance	
Form	: Liquefied gas
Physical state Color	: Gaseous : Colorless
Odor	: Sweet Olefinic
Odor Threshold	: 270 ppm
Safety data	
Flash point	: -136°C (-213°F) Method: closed cup
Lower explosion limit	: 2,7 %(V)
Upper explosion limit	: 36 %(V)
Autoignition temperature	: 490°C (914°F)
Molecular formula	: C2H4
Molecular weight	: 28,04 g/mol
рН	: Not applicable
Freezing point	: -169°C (-272°F)
Boiling point/boiling range	: -103,9°C (-155,0°F)
Vapor pressure	: 51,00 bar at 10°C (50°F)
Relative density	: 0,57 at -103,9 °C (-155,0 °F)
Water solubility	: 130 mg/l
Solubility in other solvents	: Soluble in hydrocarbons
Viscosity, kinematic	: Not applicable
Relative vapor density	: 0,98 (Air = 1.0)
Evaporation rate	: No data available
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Percent volatile	: > 99 %
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SECTION 10: Stability and reacti	Vity
10.1	
Reactivity	: Stable under recommended storage conditions.
10.2	
Chemical stability	: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
10.3	
Possibility of hazardous rea	ctions
Hazardous reactions	: Hazardous reactions: Hazardous polymerization does not occur.
	Hazardous reactions: Vapors may form explosive mixture with air.
10.4 Conditions to avoid	: Heat, flames and sparks.
10.5 Materials to avoid	: May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
10.6 Hazardous decomposition products	: Methane Hydrogen
Other data	: No decomposition if stored and applied as directed.
SECTION 11: Toxicological infor	mation
11.1 Information on toxicological	leffects
Ethylene 99.8% Grade Acute oral toxicity	: Negligible or unlikely exposure pathways
Acute inhalation toxicity	
Ethylene	: LC50: > 65,4 mg/l Exposure time: 4 h Species: Rat Sex: male Test atmosphere: gas
Ethylene 99.8% Grade	
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nylene 99.8% Grade	SAFETY DATA SHE	
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Acute dermal toxicity	: Negligible or unlikely exposure pathways	
Skin irritation		
Ethylene	: Contact with liquid or refrigerated gas can cause cold burns and frostbite.	
Eye irritation Ethylene	: Contact with liquid or refrigerated gas can cause cold burns and frostbite.	
Genotoxicity in vitro		
Ethylene	 Test Type: Ames test Test system: TA100 Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative Test Type: Chromosome aberration test in vitro Test system: Chinese hamster ovary cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: negative 	
Genotoxicity in vivo		
Ethylene	: Test Type: Micronucleus test Species: Rat Route of Application: inhalation (gas) Exposure time: 5 days and 13 weeks Dose: 10000 ppm Result: negative	
	Test Type: Micronucleus test Species: Rat Route of Application: inhalation (gas) Exposure time: 4 weeks Dose: 40, 1000, 3000 ppm Method: OECD Test Guideline 474 Result: negative	
Carcinogenicity		
Ethylene	: Species: Rat Dose: 0. 300, 1000, 3000 ppm Exposure time: 2 yrs Number of exposures: 6 h/d, 5 d/wk Remarks: no increase incidence of tumors	
Reproductive toxicity		
Ethylene	: Species: Rat Application Route: Inhalation Dose: 0. 200, 1000, 5000 ppm Number of exposures: 6 h/d NOAEL Parent: 5000 ppm NOAEL F1: 5000 ppm	
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Ethylene 99.8% Grad	SAFETY DATA SHEET
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	no abnormalities observed
Developmental Toxicity	
Ethylene	 Species: Rat Application Route: Inhalation Dose: 0. 200, 1000, 5000 ppm Number of exposures: 6 h/d NOAEL Teratogenicity: 5000 ppm NOAEL Maternal: 5000 ppm No toxicity to reproduction Animal testing did not show any effects on fertility.
Ethylene 99.8% Grade Aspiration toxicity	: No aspiration toxicity classification.
Specific Target Organ To Ethylene	exicity (Single Exposure) : Assessment: May cause drowsiness or dizziness.
1.2 Information on other haz	zards
Ethylene 99.8% Grade Further information	: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Concentrations substantially above the TLV value may cause narcotic effects. Solvents may degrease the skin.
Endocrine disrupting properties	 The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
ECTION 12: Ecological info	rmation
2.1 Toxicity Ecotoxicity effects	
Toxicity to fish	: This material is not expected to be harmful to aquatic organisms.
2.2 Persistence and degrada	ability
Biodegradability	
Ethylene	: This material is expected to be readily biodegradable.
2.3 Bioaccumulative potenti Elimination information (pe	al ersistence and degradability)
Bioaccumulation	

Ethylene 99.8% Grade	SAFETY DATA SHEE
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Ethylene	: Bioaccumulation is unlikely.
2.4	
Mobility in soil	
Mobility	: No data available
2.5	
Results of PBT and vPvB a Results of PBT assessment	 This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
2.6	
Endocrine disrupting prop	erties
Endocrine disrupting properties	: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
2.7 Other adverse effects	
Additional ecological information 2.8	: No data available
Additional Information	
Ecotoxicology Assessmen	t
Short-term (acute) aquatic hazard	: This material is not expected to be harmful to aquatic organisms.
Long-term (chronic) aquatic hazard	: This material is not expected to be harmful to aquatic organisms.
SECTION 13: Disposal conside	rations
3.1	
Waste treatment methods	pertains only to the product as shipped.
may meet the criteria of a ha other State and local regulati regulated components may b	purpose or recycle if possible. This material, if it must be discarded, zardous waste as defined by US EPA under RCRA (40 CFR 261) or ions. Measurement of certain physical properties and analysis for be necessary to make a correct determination. If this material is aste, federal law requires disposal at a licensed hazardous waste
Product	: Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.
Contaminated packaging	: Empty remaining contents. Dispose of as unused product.
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Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

SECTION 14: Transport information

14.1 - 14.7

Transport information The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments in non-bulk packages (see regulatory definition).

Consult the appropriate domestic or international mode-specific and quantity-specific Dangerous Goods Regulations for additional shipping description requirements (e.g., technical name or names, etc.) Therefore, the information shown here, may not always agree with the bill of lading shipping description for the material. Flashpoints for the material may vary slightly between the SDS and the bill of lading.

US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION) UN1962, ETHYLENE, 2.1

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS) UN1962, ETHYLENE, 2.1, (-136 °C c.c.)

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION) UN1962, ETHYLENE, 2.1

ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE)) UN1962, ETHYLENE, 2.1, (B/D)

RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))

23,UN1962,ETHYLENE, 2.1 ((13))

ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS) UN1962, ETHYLENE, 2.1

Maritime transport in bulk according to IMO instruments

SECTION 15: Regulatory information

15.1

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

Commission Regulation (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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 Major Accident Hazard : 96/82/EC Update: 2003. Extremely flammable & Guantity 1: 10 1 Guantity 2: 50 1 EZEU_SEVES3 Update: FLAMMABLE GASES Para Quantity 2: 50 1 Motification status Europe REACH Switzerland CH INV United States of America (USA) TSCA Major Accident Allow Components of this product are on the Canadian DSCA Australia AIIC : TSCA inventory, or in compliance with the inventory : On the inventory, or in compliance with the inventory : On or in compliance with the active portion of the TSCA inventory. Australia AIIC : TSCA inventory, or in compliance with the inventory : On or in compliance with the active portion of the TSCA inventory. Australia AIIC : On the inventory, or in compliance with the inventory : On the inventory, or in compliance with the inventory : On the inventory, or in compliance with the inventory : Australia AIIC : On the inventory, or in compliance with the inventory : On the inventory, or in compliance with the inventory : A substance(s) in this product are on the Canadian Dy CPChem according to K-REACH regulations. Importation or manufacture or the sported install permitted provided the Korean Importer of Record has themselves notified the substance or the exported amount does not exceed the minimum threshold quantity of the non-registered substance (s). PHillippines PICCS : On the inventory, or in compliance with the inventory : Taiwan TCSI : The Hazard: 4 Reactivity Hazard: 2 Pret Classification : Health Hazard: 2 Metter information Legacy SDS Number : 1852 Significant changes since the last version are highlighted in the margin. This version replaces all previous versions. The information in this SDS pertains only to the product as shipped. 	131011 1.2	
Legislation Extremely flammable 8 B Quanity 1: 10 1 Quanity 2: 50 1 :: ZEU_SEVES3 Update: FLAMMABLE GASES P2 Quanity 1: 10 1 Quanity 2: 50 1 : Strate Status :: Europe REACH :: Notification status :: Europe REACH :: Not in compliance with the inventory United Status of America (USA) :: On r in compliance with the active portion of the TSCA inventory Canada DSL :: Australia AIIC :: Japan ENCS :: Australia AIIC :: On the inventory, or in compliance with the inventory Korea KECI :: Publicptices : Pillippines : PILICS :: On the inventory, or in compliance with the inventory China IECSC ::	2	
FLAMMABLE GASES P2 Quantity 1: 10 1 Quantity 2: 50 1 Notification status Europe REACH :: Not in compliance with the inventory Switzerland CH INV :: On the inventory, or in compliance with the inventory United States of America (USA) :: On the inventory, or in compliance with the inventory TSCA :: All components of this product are on the Canadian Quantity 1: 0 1 : On the inventory, or in compliance with the inventory Japan ENCS :: On the inventory, or in compliance with the inventory Korea KECI :: On the inventory, or in compliance with the inventory With the optimized provided the Korean Importer of Record has themselves notified the substance or the exported amount does not exceed the minimum threshold quantity of the non-registered substance(s). Philippines PICCS :: On the inventory, or in compliance with the inventory Taiwan TCSI :: On the inventory, or in compliance with the inventory Taiwan TCSI :: On the inventory, or in compliance with the inventory Taiwan TCSI :: On the inventory, or in compliance with the inventory Taiwan TCSI :: On the inventory, or in compliance with the inventory Taiwan TCSI :: On the inventory, or in compliance with the inventory		Extremely flammable 8 Quantity 1: 10 t
Europe REACH :: Not in compliance with the inventory Switzerland CH INV :: On the inventory, or in compliance with the active portion of the TSCA inventory Canada DSL :: On the inventory, or in compliance with the inventory Japan ENCS :: On the inventory, or in compliance with the inventory Korea KECI :: On the inventory, or in compliance with the inventory Solution :: On the inventory, or in compliance with the inventory Japan ENCS :: On the inventory, or in compliance with the inventory Korea KECI :: On the inventory, or in compliance with the inventory Wite States of America (USA) :: On the inventory, or in compliance with the inventory Japan ENCS :: On the inventory, or in compliance with the inventory Korea KECI :: On the inventory, or in compliance with the inventory Wite States of America (USA) :: States of America (USA) Philippines PICCS :: On the inventory, or in compliance with the inventory Taiwan TCSI :: On the inventory, or in compliance with the inventory China IECSC :: On the inventory, or in compliance with the inventory Taiwan TCSI :: On the inventory, or in compliance with the inventory China IECSC :: On the inventory, or in compliance with the inventory		FLAMMABLE GASES P2 Quantity 1: 10 t
Taiwan TCSI : On the inventory, or in compliance with the inventory China IECSC : On the inventory, or in compliance with the inventory ECTION 16: Other information : Health Hazard: 2 Fire Hazard: 4 Reactivity Hazard: 2 Further information : Health Hazard: 2 Further information : Health Hazard: 2 Significant changes since the last version are highlighted in the margin. This version replaces all previous versions. The information in this SDS pertains only to the product as shipped.	Europe REACH Switzerland CH INV United States of America (USA TSCA Canada DSL Australia AIIC Japan ENCS	 On the inventory, or in compliance with the inventory On or in compliance with the active portion of the TSCA inventory All components of this product are on the Canadian DSL On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory A substance(s) in this product was not registered, notified to be registered, or exempted from registration by CPChem according to K-REACH regulations. Importation or manufacture of this product is still permitted provided the Korean Importer of Record has themselves notified the substance or the exported amount does not exceed the minimum threshold
NFPA Classification : Health Hazard: 2 Fire Hazard: 4 Reactivity Hazard: 2 Further information Legacy SDS Number : 1852 Significant changes since the last version are highlighted in the margin. This version replaces all previous versions. The information in this SDS pertains only to the product as shipped.	Taiwan TCSI	: On the inventory, or in compliance with the inventory
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Significant changes since the last version are highlighted in the margin. This version replaces all previous versions. The information in this SDS pertains only to the product as shipped.	Further information	
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	The information in this SDS pe	rtains only to the product as shipped.

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

k	Key or legend to abbreviations and a	cronyms use	d in the safety data sheet
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AIIC	Australian Inventory of Industrial Chemicals	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%	ATE	Acute toxicity estimate

Full text of H-Statements referred to under sections 2 and 3.

H220	Extremely flammable gas.
H280	Contains gas under pressure; may explode if heated.
H336	May cause drowsiness or dizziness.