SAFETY DATA SHEET



Ethylene 99.8% Grade

Version 1.3

Revision Date 2022-09-06

Product information	
Product Name Material	 Ethylene 99.8% Grade 1083870, 1085526, 1100705, 1015414
Company	: Chevron Phillips Chemical Company LP 10001 Six Pines Drive The Woodlands, TX 77380
Emergency telephone	3:
Asia: CHEMWATCH Mexico CHEMTREC South America SOS Argentina: +(54)-11 EUROPE: BIG +32. Austria: VIZ +43 1 4 Belgium: 070 245 24 Bulgaria: +359 2 91 Croatia: +3851 2348 Cyprus: 1401 Czech Republic: To	 xernational) 24.9300 or 703.527.3887(int'l) H (+612 9186 1132) China: 0532 8388 9090 C 01-800-681-9531 (24 hours) S-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600 59839431 .14.584545 (phone) or +32.14583516 (telefax) 406 43 43 (24 hours/day, 7 days/week) 45 (24 hours/day, 7 days/week) 54 233 8 342 (24 hours/day, 7 days/week) wicological Information Center +420 224 919 293, +420 224 915 402 voison Center (Giftlinjen): +45 8212 1212

hylene 99.8% Grade	Revision Date 2022-09
Malta: +356 2395 2000 The Netherlands: NVIC: Norway: 22 59 13 00 (24 Poland: BIG +32.14.5845 Portugal: CIAV phone nu Romania: +40213183606 Slovakia: +421 2 5477 4 Slovenia: Phone number	hours/day, 7 days/week) 545 (phone) or +32.14583516 (telefax) imber: +351 800 250 250 5 166 : 112 icy Telephone Number of Spanish Poison Centre: +34 91 562 04 20 (
Responsible Department E-mail address Website	 Product Safety and Toxicology Group SDS@CPChem.com www.CPChem.com
CTION 2: Hazards identification	tion
Classification	 contain all the information as required by the standard. Flammable gases, Category 1 Gases under pressure, Liquefied gas Specific target organ toxicity - single exposure, Category 3, Central nervous system
Labeling	
Labeling Symbol(s)	
-	: Danger
Symbol(s)	: Danger : H220: Extremely flammable gas. H280: Contains gas under pressure; may explode if heated. H336: May cause drowsiness or dizziness.
Symbol(s) Signal Word	: H220: Extremely flammable gas. H280: Contains gas under pressure; may explode if heated.

hylene 99.8% Grade	6	SAFETY DATA SHE	
rsion 1.3	•	Revision Date 2022-09	
	place. Disposal:	m sunlight. Store in a well-ventilated	
Carcinogenicity:			
IARC		present at levels greater than or probable, possible or confirmed	
NTP	human carcinogen by IARC. No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.		
CTION 3: Composition/info	rmation on ingredients		
Synonyms	: Ethylene HP (UNODORIZE Ethene Ethylene HP (Unodorized)	ED) or ETHYLENE 99.8% GRADE	
Molecular formula	: C2H4		
Component	CAS-No.	Weight %	
Ethylene	74-85-1	99.8 - 100	
CTION 4: First aid measure	S		
General advice	: Move out of dangerous are sheet to the doctor in atten	ea. Show this material safety data dance.	
If inhaled	: Consult a physician after s place in recovery position a	ignificant exposure. If unconscious, and seek medical advice.	
In case of eye contact		precaution. Remove contact eye. Keep eye wide open while sists, consult a specialist.	
If swallowed		r. Do not give milk or alcoholic ything by mouth to an unconscious st, call a physician.	
CTION 5: Firefighting meas	sures		
Flash point	: -136°C (-213°F) Method: closed cup		
Autoignition temperature	: 490°C (914°F)		
Suitable extinguishing	: Alcohol-resistant foam. Ca	arbon dioxide (CO2). Dry chemical.	

Personal precautions : Ensure adequate ventilation. Remove all sources of ig Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors accumulate in low areas. Environmental precautions : Prevent product from entering drains. Prevent further I or spillage if safe to do so. If the product contaminates and lakes or drains inform respective authorities. ETION 7: Handling and storage Handling Advice on safe handling : Do not breathe vapors/dust. Avoid exposure - obtain s instructions before use. For personal protection see see Smoking, eating and drinking should be prohibited in the second sec	g if ed
Unsuitable extinguishing media High volume water jet. Special protective equipment for fire-fighters Wear self-contained breathing apparatus for firefighting necessary. Further information For safety reasons in case of fire, cans should be store separately in closed containments. Use a water spray fully closed containments. Use a water spray fully closed containers. Fire and explosion protection Do not spray on a naked flame or any incandescent matrake necessary action to avoid static electricity dischara (which might cause ignition of organic vapors). Use or explosion-proof equipment. Keep away from open flam surfaces and sources of ignition. Hazardous decomposition products Methane. Hydrogen. ETION 6: Accidental release measures Personal precautions Ensure adequate ventilation. Remove all sources of ignitors accumulating to form explosive concentrations. Vapors accumulate in low areas. Environmental precautions Prevent product from entering drains. Prevent further l or spillage if safe to do so. If the product contaminates and lakes or drains inform respective authorities. ETION 7: Handling and storage Do not breathe vapors/dust. Avoid exposure - obtain s instructions before use. For personal protection see se as moking, eating and drinking should be prohibited in th	ed
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application area. Take precautionary measures agains discharges. Provide sufficient air exchange and/or exh work rooms. Open drum carefully as content may be u pressure. Dispose of rinse water in accordance with lo national regulations.	ection 8 ne st static naust in under
Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent ma Take necessary action to avoid static electricity dischar (which might cause ignition of organic vapors). Use or explosion-proof equipment. Keep away from open flam surfaces and sources of ignition.	rge nly
Storage	
Requirements for storage : Prevent unauthorized access. No smoking. Keep con tightly closed in a dry and well-ventilated place. Obser precautions. Electrical installations / working materials	

Version 1.3

SAFETY DATA SHEET

Revision Date 2022-09-06

comply with the technological safety standards.

SECTION 8: Exposure controls/personal protection

Ingredients with workplace control parameters

US

Components	Basis	Value	Control parameters	Note
Ethylene	ACGIH	TWA	200 ppm,	A4,
A4 Not classifiable as a human carcinogen				

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:. 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 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.
SECTION 9: Physical and cher	mica	I properties

Information on basic physical and chemical properties

Appearance

SDS Number:100000067812

Version 1.3

Revision Date 2022-09-06

Form Physical state Color Odor Odor Threshold	:	Liquefied gas Gaseous Colorless Sweet Olefinic 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
Percent volatile	:	> 99 %

SECTION 10: Stability and reactivity

Reactivity

: Stable under recommended storage conditions.

SDS Number:100000067812

hylene 99.8% Grade	SAFETY DATA SHE
rsion 1.3	Revision Date 2022-09-
Chemical stability	: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Possibility of hazardous read	ctions
Hazardous reactions	: Hazardous reactions: Hazardous polymerization does not occur.
	Hazardous reactions: Vapors may form explosive mixture with air.
Conditions to avoid	: Heat, flames and sparks.
Materials to avoid	: May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
Hazardous decomposition products	: Methane Hydrogen
Other data	: No decomposition if stored and applied as directed.
CTION 11: Toxicological inform	nation
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 Acute dermal toxicity	
Acute definal toxicity	: Negligible or unlikely exposure pathways
Skin irritation	: Negligible or unlikely exposure pathways
	 Negligible or unlikely exposure pathways Contact with liquid or refrigerated gas can cause cold burns and frostbite.
Skin irritation Ethylene	: Contact with liquid or refrigerated gas can cause cold burns
Skin irritation	: Contact with liquid or refrigerated gas can cause cold burns
Skin irritation Ethylene Eye irritation	 Contact with liquid or refrigerated gas can cause cold burns and frostbite. Contact with liquid or refrigerated gas can cause cold burns
Skin irritation Ethylene Eye irritation Ethylene	 Contact with liquid or refrigerated gas can cause cold burns and frostbite. Contact with liquid or refrigerated gas can cause cold burns
Skin irritation Ethylene Eye irritation Ethylene Genotoxicity in vitro	 Contact with liquid or refrigerated gas can cause cold burns and frostbite. Contact with liquid or refrigerated gas can cause cold burns and frostbite. Test Type: Ames test Test system: TA100 Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471

ylene 99.8% Grade	SAFETY DATA SHE
sion 1.3	Revision Date 2022-09
	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 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.
Ethylene 99.8% Grade Further information	: Symptoms of overexposure may be headache, dizziness,
Number:100000067812	8/13

SAFETY DATA SHEET

Ethylene 99.8% Grade

Version 1.3

Revision Date 2022-09-06

tiredness, nausea and vomiting. Concentrations substantially above the TLV value may cause narcotic effects. Solvents may degrease the skin.

SECTION 12: Ecological information

Ecotoxicity effects		
-		
Biodegradability		
Ethylene	:	This material is expected to be readily biodegradable.
Elimination information (persis	ten	ce and degradability)
Bioaccumulation		
Ethylene	:	Bioaccumulation is unlikely.
Mobility	:	No data available
Additional ecological information	:	No data available
Ecotoxicology Assessment		
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 considerations

The information in this SDS pertains only to the product as shipped.

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

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. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

SECTION 14: 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

SDS Number:100000067812

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thylene 99.8% Grade	
Goods Regulations for addi etc.) Therefore, the information	Revision Date 2022-09-0 itional shipping description requirements (e.g., technical name or names ation shown here, may not always agree with the bill of lading shipping Flashpoints for the material may vary slightly between the SDS and the
US DOT (UNITED STATES UN1962, ETHYLENE, 2	S DEPARTMENT OF TRANSPORTATION)
IMO / IMDG (INTERNATIO UN1962, ETHYLENE, 2	NAL MARITIME DANGEROUS GOODS) 1, (-136 °C c.c.)
IATA (INTERNATIONAL A UN1962, ETHYLENE, 2	IR TRANSPORT ASSOCIATION)
ADR (AGREEMENT ON DA UN1962, ETHYLENE, 2	ANGEROUS GOODS BY ROAD (EUROPE)) a.1, (B/D)
RID (REGULATIONS CON DANGEROUS GOODS (EU 23,UN1962,ETHYLENE,	
ADN (EUROPEAN AGREE OF DANGEROUS GOODS UN1962, ETHYLENE, 2	EMENT CONCERNING THE INTERNATIONAL CARRIAGE BY INLAND WATERWAYS)
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ADN (EUROPEAN AGREE OF DANGEROUS GOODS UN1962, ETHYLENE, 2 Maritime transport in bull CTION 15: Regulatory infor National legislation	EMENT CONCERNING THE INTERNATIONAL CARRIAGE BY INLAND WATERWAYS) .1 k according to IMO instruments mation : Flammable (gases, aerosols, liquids, or solids) Gases under pressure
ADN (EUROPEAN AGREE OF DANGEROUS GOODS UN1962, ETHYLENE, 2 Maritime transport in bull CTION 15: Regulatory infor National legislation SARA 311/312 Hazards	EMENT CONCERNING THE INTERNATIONAL CARRIAGE BY INLAND WATERWAYS) 3.1 k according to IMO instruments mation : Flammable (gases, aerosols, liquids, or solids) Gases under pressure Specific target organ toxicity (single or repeated exposure) : Calculated RQ exceeds reasonably attainable upper limit.
ADN (EUROPEAN AGREE OF DANGEROUS GOODS UN1962, ETHYLENE, 2 Maritime transport in bull ECTION 15: Regulatory infor National legislation SARA 311/312 Hazards CERCLA Reportable Quantity SARA 302 Reportable	EMENT CONCERNING THE INTERNATIONAL CARRIAGE BY INLAND WATERWAYS) A k according to IMO instruments mation Flammable (gases, aerosols, liquids, or solids) Gases under pressure Specific target organ toxicity (single or repeated exposure) Calculated RQ exceeds reasonably attainable upper limit. Methanol This material does not contain any components with a SARA

ylene 99.8% Grade	•	SAFETY DATA SHE
sion 1.3		Revision Date 2022-09
SARA 304 Reportable Quantity	: This material does not con 304 EHS RQ.	ntain any components with a section
SARA 313 Components	 The following components established by SARA Title Ethylene - 74-85-1 	are subject to reporting levels III, Section 313:
Clean Air Act		
Potential Class		as manufactured with a Class I or Clean Air Act Section 602 (40 CFR
This product does not conta Act Section 112 (40 CFR 61		(HAP), as defined by the U.S. Clean A
The following chemical(s) an Release Prevention (40 CFI		ir Act Section 112(r) for Accidental
The following chemical(s) ar Final VOC's (40 CFR 60.489		ir Act Section 111 SOCMI Intermediate
US State Regulations		
Pennsylvania Right To Knov	<i>w</i> : Ethylene - 74-85-1	
	. Luiyiene - 74-00-1	
California Prop. 65 Components	[listed below], which is [are	can expose you to chemicals including e] known to the State of California to er reproductive harm. For more 5Warnings.ca.gov.
	Methanol	67-56-1
N		4440
S Number:100000067812		11/13

Version 1.3

SAFETY DATA SHEET

Revision Date 2022-09-06

Notification status Europe REACH Switzerland CH INV United States of America (USA) TSCA Canada DSL Other AIIC Japan ENCS Korea KECI	 Not 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 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 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 quantity of the non-registered substance(s).
Philippines PICCS	: On the inventory, or in compliance with the inventory
Taiwan TCSI China IECSC	On the inventory, or in compliance with the inventoryOn the inventory, or in compliance with the inventory
SECTION 16: Other information	
NFPA Classification :	Health Hazard: 2 Fire Hazard: 4 Reactivity Hazard: 2
Further information	
Legacy SDS Number :	1852
Significant changes since the las previous versions.	t version are highlighted in the margin. This version replaces all

The information in this SDS pertains only to the product as shipped.

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.

ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency

SAFETY DATA SHEET

Version 1.3

Revision Date 2022-09-06

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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%		