



Acetylene

Version 2.1

Revision Date 2023-11-13

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

Product information

Product Name : Acetylene
 Material : 1091007, 1036981

Use : Chemical intermediate

Company : Chevron Phillips Chemical Company LP
 10001 Six Pines Drive
 The Woodlands, TX 77380

Emergency telephone:

Health:

866.442.9628 (North America)
 1.832.813.4984 (International)

Transport:

CHEMTREC 800.424.9300 or 703.527.3887(int'l)
 Asia: CHEMWATCH (+612 9186 1132) China: 0532 8388 9090
 Mexico CHEMTREC 01-800-681-9531 (24 hours)
 South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600
 Argentina: +(54)-1159839431
 EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)
 Austria: VIZ +43 1 406 43 43 (24 hours/day, 7 days/week)
 Belgium: 070 245 245 (24 hours/day, 7 days/week)
 Bulgaria: +359 2 9154 233
 Croatia: +3851 2348 342 (24 hours/day, 7 days/week)
 Cyprus: 1401
 Czech Republic: Toxicological Information Center +420 224 919 293, +420 224 915 402
 Denmark: Danish Poison Center (Gifftlinjen): +45 8212 1212
 Estonia: BIG +32.14.584545 (phone) or +32.14583516 (telefax)
 Finland: 0800 147 111 09 471 977 (24 hours/day)
 France: ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week)
 Germany: BIG +32.14.584545 (phone) or +32.14583516 (telefax)
 Greece: (0030) 2107793777 (24 hours/day, 7 days/week)
 Hungary: +36-80-201-199 (24 hours/day, 7 days/week)
 Iceland: 543 2222 (24 hours/day, 7 days/week)
 Ireland: BIG +32.14.584545 (phone) or +32.14583516 (telefax)
 Italy: BIG +32.14.584545 (phone) or +32.14583516 (telefax)
 Latvia: State Fire and Rescue Service, phone number: 112; Toxicology and Sepsis Clinic
 Poisoning and Drug Information Center, Hipokrāta 2, Riga, Latvia, LV-1038, phone number +371
 67042473. (24 hours.)
 Liechtenstein: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

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Lithuania: +370 (85) 2362052
 Luxembourg: (+352) 8002 5500 (24 hours/day, 7 days/week)
 Malta: +356 2395 2000
 The Netherlands: NVIC: +31 (0)88 755 8000
 Norway: 22 59 13 00 (24 hours/day, 7 days/week)
 Poland: BIG +32.14.584545 (phone) or +32.14583516 (telefax)
 Portugal: CIAV phone number: +351 800 250 250
 Romania: +40213183606
 Slovakia: +421 2 5477 4166
 Slovenia: Phone number: 112
 Spain: National Emergency Telephone Number of Spanish Poison Centre: +34 91 562 04 20 (24 hours/day, 7 days/week)
 Sweden: 112 – ask for Poisons Information

Responsible Department : Product Safety and Toxicology Group
 E-mail address : SDS@CPChem.com
 Website : www.CPChem.com

SECTION 2: Hazards identification**Classification of the substance or mixture**

This product has been classified in accordance with the hazard communication standard 29 CFR 1910.1200; the SDS and labels contain all the information as required by the standard.

Classification

: Flammable gases, Category 1
 Gases under pressure, Compressed gas

Labeling

Symbol(s) :



Signal Word : Danger

Hazard Statements : H220: Extremely flammable gas.
 H280: Contains gas under pressure; may explode if heated.

Precautionary Statements : **Prevention:**
 P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
Response:
 P377 Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
 P381 Eliminate all ignition sources if safe to do so.
Storage:
 P410 + P403 Protect from sunlight. Store in a well-ventilated place.

Carcinogenicity:

IARC Group 2A: Probably carcinogenic to humans
 Dimethylformamide 68-12-2

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NTP

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.

SECTION 3: Composition/information on ingredients

Synonyms : Ethyne

Molecular formula : C₂H₂

Component	CAS-No.	Weight %
Acetylene	74-86-2	97 - 100
Dimethylformamide	68-12-2	0 - 3
Ethane	74-84-0	0 - 2.5
Ethylene	74-85-1	0 - 2.5
Propylene	115-07-1	0 - 2

SECTION 4: First aid measures

General advice : Move out of dangerous area. Show this material safety data sheet to the doctor in attendance.

If inhaled : If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.

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. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

SECTION 5: Firefighting measures

Flash point : -17.7°C (0.1°F)
Method: closed cup

Autoignition temperature : 305°C (581°F)

Suitable extinguishing media : Alcohol-resistant foam. Carbon dioxide (CO₂). Dry chemical.

Unsuitable extinguishing media : High volume water jet.

Special protective equipment for fire-fighters : 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.

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protection : 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 products : Carbon. Carbon oxides.

SECTION 6: Accidental release measures

Personal precautions : Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

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.

SECTION 7: Handling and storage**Handling**

Advice on safe handling : Do not breathe vapors/dust. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Container may be opened only under exhaust ventilation hood. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations.

Advice on protection against 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 ignition of organic vapors). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.

Storage

Requirements for storage areas and containers : Prevent unauthorized access. No smoking. Keep container tightly closed in a dry and well-ventilated place. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

Use : Chemical intermediate

SECTION 8: Exposure controls/personal protection**Ingredients with workplace control parameters****US**

Components	Basis	Value	Control parameters	Note
Dimethylformamide	ACGIH	TWA	5 ppm,	A3, Skin,
	OSHA Z-1	TWA	10 ppm, 30 mg/m3	X,
	OSHA Z-1-A	TWA	10 ppm, 30 mg/m3	X,
Ethylene	ACGIH	TWA	200 ppm,	A4,

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Propylene	ACGIH	TWA	500 ppm,	A4,
A3 Confirmed animal carcinogen with unknown relevance to humans A4 Not classifiable as a human carcinogen Skin Danger of cutaneous absorption X Skin notation				

Immediately Dangerous to Life or Health Concentrations (IDLH)

Substance name	CAS-No.	Control parameters	Update
Dimethylformamide	68-12-2	Immediately Dangerous to Life or Health Concentration Value 500 parts per million	1995-03-01

Biological exposure indices**US**

Substance name	CAS-No.	Control parameters	Sampling time	Update
Dimethylformamide	68-12-2	Total N-Methylformamide: 30 mg/l Total N-Methylformamide represents the sum of N- Methylformamide and N- (Hydroxymethyl)-N- Methylformamide (Urine)	End of shift (As soon as possible after exposure ceases)	2018-03-20
		N-Acetyl-S-(N-methylcarbamoyl) cysteine: 30 mg/l (Urine)	End of shift at end of workweek	2018-03-20

Engineering measures

Adequate ventilation to control airborne 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

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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.

SECTION 9: Physical and chemical properties**Information on basic physical and chemical properties****Appearance**

Form : Compressed gas
 Physical state : Gaseous
 Color : Colorless
 Odor : garlic-like

Safety data

Flash point : -17.7°C (0.1°F)
 Method: closed cup

Lower explosion limit : 2.5 %(V)

Upper explosion limit : > 99 %(V)

Oxidizing properties : No

Autoignition temperature : 305°C (581°F)

Molecular formula : C₂H₂

Molecular weight : 26.04 g/mol

pH : Not applicable

Pour point : No data available

Freezing point : -80.6°C (-113.1°F)

Boiling point/boiling range : -84°C (-119°F)

Vapor pressure : 649.00 PSI
 at 21°C (70°F)

Relative density : No data available

Density : 0.62 G/ML

Water solubility : Soluble in acetone, benzene, chloroform and many organic solvents; slightly soluble in water and alcohol.

Partition coefficient: n-octanol/water : No data available

Viscosity, kinematic : No data available

Relative vapor density : 0.91

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(Air = 1.0)

Evaporation rate : No data available

Percent volatile : > 99 %

SECTION 10: Stability and reactivity**Reactivity** : Stable under recommended storage conditions.**Chemical stability** : This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.**Possibility of hazardous reactions****Hazardous reactions** : Further information: No decomposition if stored and applied as directed.

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** : Carbon
Carbon oxides**Other data** : No decomposition if stored and applied as directed.**SECTION 11: Toxicological information****Acetylene
Acute oral toxicity** : Negligible or unlikely exposure pathways**Acetylene
Acute inhalation toxicity** : Acute toxicity estimate: > 30000 ppm
Exposure time: 4 h
Test atmosphere: gas
Method: Calculation method**Acetylene
Acute dermal toxicity** : Negligible or unlikely exposure pathways**Acetylene
Skin irritation** : No skin irritation.

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**Acetylene
Eye irritation**

: No eye irritation.

**Acetylene
Sensitization**

: No adverse effects expected.

Repeated dose toxicity**Ethane**

: Species: Rat, Male and female
 Sex: Male and female
 Application Route: Inhalation
 Dose: 0, 1600, 5000, 16000 ppm
 Exposure time: 6 weeks
 Number of exposures: 6 hours/day, 7 days/week
 NOEL: 16000 ppm
 Test substance: yes
 Method: OECD Guideline 422

Propylene

Species: Rat, Male and female
 Sex: Male and female
 Application Route: Inhalation
 Dose: 625,1250,2500,5000, 10000 ppm
 Exposure time: 14 wk
 Number of exposures: 6 Hr/d, 5 d/wk
 NOEL: 10000 ppm

Species: Mouse, Male and female
 Sex: Male and female
 Application Route: Inhalation
 Dose: 625,1250,2500,5000, 10000 ppm
 Exposure time: 14 wk
 Number of exposures: 6 Hr/d, 5 d/wk
 NOEL: 10000 ppm

Species: Rat, Male and female
 Sex: Male and female
 Application Route: Inhalation
 Dose: 0, 5000, 10000 ppm
 Exposure time: 103 wk
 Number of exposures: 6 Hr/d, 5 d/wk
 Lowest observable effect level: 5000 ppm
 Not classified due to data which are conclusive although insufficient for classification.

Species: Mouse, Male and female
 Sex: Male and female
 Application Route: Inhalation
 Dose: 0, 5000, 10000 ppm
 Exposure time: 103 wk
 Number of exposures: 6 Hr/d, 5 d/wk
 Lowest observable effect level: 5000 ppm
 Not classified due to data which are conclusive although insufficient for classification.

Genotoxicity in vitro**Ethylene**

: Test Type: Ames test
 Test system: TA100
 Metabolic activation: with and without metabolic activation

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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

Propylene

Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative

Test Type: Mammalian cell gene mutation assay
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: Ambiguous

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

Propylene

Test Type: Micronucleus test
Species: Rat
Route of Application: inhalation (gas)
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

Propylene

Species: Rat
Dose: 0, 5000, 10000 ppm
Exposure time: 103 wks
Number of exposures: 6 h/d, 5 d/wk
Remarks: No evidence of carcinogenicity

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Species: Mouse
 Dose: 0, 5000, 10000 ppm
 Exposure time: 103 wks
 Number of exposures: 6 h/d, 5 d/wk
 Remarks: No evidence of carcinogenicity

Reproductive toxicity

Ethane

: Species: Rat
 Sex: male and female
 Application Route: Inhalation
 Dose: 0, 1600, 5000, 16000 ppm
 Exposure time: 6 weeks
 Number of exposures: 6 hours/day, 7 days/week
 Test period: 6 weeks
 Test substance: yes
 Method: OECD Guideline 422
 NOAEL Parent: 16000 ppm
 NOAEL F1: 16000 ppm
 no abnormalities observed

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

Propylene

Species: Rat
 Sex: male and female
 Application Route: Inhalation
 Dose: 0, 5000, 10000 ppm
 Number of exposures: 6 hrs/d, 5 d/wk
 Test period: 103 wks
 NOAEL Parent: 10000 ppm

Species: Mouse
 Sex: male and female
 Application Route: Inhalation
 Dose: 0, 5000, 10000 ppm
 Number of exposures: 6 hrs/d, 5 d/wk
 Test period: 103 wks
 NOAEL Parent: 10000 ppm

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.

Propylene

Species: Rat
 Application Route: Inhalation
 Dose: 0, 200, 1000, 10000 ppm

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Number of exposures: 6 hrs/d
 Test period: 14 d
 Method: OECD Guideline 414
 NOAEL Teratogenicity: 10000 ppm
 NOAEL Maternal: 10000 pmm

Acetylene
Aspiration toxicity : No aspiration toxicity classification.

CMR effects

Dimethylformamide : Reproductive toxicity: Clear evidence of adverse effects on development, based on animal experiments.

Ethane
 Carcinogenicity: Weight of evidence does not support classification as a carcinogen
 Mutagenicity: In vitro tests did not show mutagenic effects
 Teratogenicity: No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.
 Reproductive toxicity: Weight of evidence does not support classification for reproductive toxicity

Propylene
 Carcinogenicity: Animal testing did not show any carcinogenic effects.
 Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
 Teratogenicity: Animal testing did not show any effects on fetal development.
 Reproductive toxicity: Animal testing did not show any effects on fertility.

Acetylene
Further information : No data available.

SECTION 12: Ecological information**Ecotoxicity effects****Toxicity to fish**

Dimethylformamide : LC50: 7,100 mg/l
 Exposure time: 96 h
 Species: Lepomis macrochirus (Bluegill sunfish)

Propylene : No data available

Toxicity to daphnia and other aquatic invertebrates

Dimethylformamide : EC50: 13,100 mg/l
 Exposure time: 48 h
 Species: Daphnia magna (Water flea)

Toxicity to algae

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Dimethylformamide	: EC50: > 1,000 mg/l Exposure time: 96 h Species: Desmodesmus subspicatus (green algae)
Biodegradability	: This material is volatile and is expected to partition to air.
Elimination information (persistence and degradability)	
Bioaccumulation	: No data available
Mobility	: Disperses rapidly in air.
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.
Additional ecological information	: This material is not expected to be harmful to aquatic organisms. 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 Goods Regulations for additional shipping description requirements (e.g., technical name or names,

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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)

UN1001, ACETYLENE, DISSOLVED, 2.1

Acetylene dissolved is authorized for transport, but acetylene liquefied is forbidden for transport.

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

UN1001, ACETYLENE, DISSOLVED, 2.1, (-17.7 °C c.c.)

Acetylene dissolved is authorized for transport, but acetylene liquefied is forbidden for transport.

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

UN1001, ACETYLENE, DISSOLVED, 2.1

Acetylene dissolved is authorized for transport, but acetylene liquefied is forbidden for transport.

ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))

UN1001, ACETYLENE, DISSOLVED, 2.1, (B/D)

Acetylene dissolved is authorized for transport, but acetylene liquefied is forbidden for transport.

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

239, UN1001, ACETYLENE, DISSOLVED, 2.1

Acetylene dissolved is authorized for transport, but acetylene liquefied is forbidden for transport.

ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS)

UN1001, ACETYLENE, DISSOLVED, 2.1

Acetylene dissolved is authorized for transport, but acetylene liquefied is forbidden for transport.

Maritime transport in bulk according to IMO instruments

SECTION 15: Regulatory information**National legislation**

SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)
Gases under pressure
Reproductive toxicity

CERCLA Reportable Quantity : 3333 lbs
Dimethylformamide

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SARA 302 Reportable Quantity : This material does not contain any components with a SARA 302 RQ.

SARA 302 Threshold Planning Quantity : This material does not contain any components with a section 302 EHS TPQ.

SARA 304 Reportable Quantity : This material does not contain any components with a section 304 EHS RQ.

SARA 313 Components : The following components are subject to reporting levels established by SARA Title III, Section 313:

- : Dimethylformamide - 68-12-2
- Ethylene - 74-85-1
- Propylene - 115-07-1

Clean Air Act

Ozone-Depletion Potential : This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 112 (40 CFR 61):

- : Dimethylformamide - 68-12-2

The following chemical(s) are listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F):

- : Acetylene - 74-86-2
- Ethane - 74-84-0
- Ethylene - 74-85-1
- Propylene - 115-07-1

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

- : Acetylene - 74-86-2
- Dimethylformamide - 68-12-2
- Ethylene - 74-85-1
- Propylene - 115-07-1

US State Regulations

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Pennsylvania Right To Know

: Acetylene - 74-86-2
 Dimethylformamide - 68-12-2
 Ethane - 74-84-0
 Ethylene - 74-85-1
 Propylene - 115-07-1

California Prop. 65
Components

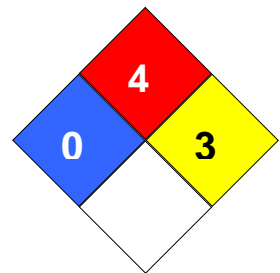
: WARNING! This product contains a chemical known in the
 State of California to cause cancer.
 Dimethylformamide 68-12-2

Notification status

Europe REACH : Not in compliance with the inventory
 Switzerland CH INV : Not in compliance with the inventory
 United States of America (USA) : On or in compliance with the active portion of the
 TSCA TSCA inventory
 Canada DSL : All components of this product are on the Canadian
 DSL
 Australia AIIC : On the inventory, or in compliance with the inventory
 New Zealand NZIoC : On the inventory, or in compliance with the inventory
 Japan ENCS : On the inventory, or in compliance with the inventory
 Korea KECI : Not in compliance with the inventory
 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
 Other : Not in compliance with the inventory

SECTION 16: Other information**NFPA Classification**

: Health Hazard: 0
 Fire Hazard: 4
 Reactivity Hazard: 3

**Further information**

Legacy SDS Number : 907

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.

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

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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.

Key or legend to abbreviations and acronyms used 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