



SAFETY DATA SHEET

1. Identification

Product identifier Natural Gasoline
Other means of identification
SDS number 8
Recommended use Gasoline blending component.
Recommended restrictions None known.
Manufacturer / Importer / Supplier / Distributor information

Company name DCP Midstream
Address 370 17 Street Suite 2500 Denver, CO 80202
Telephone (303) 595-3331
E-mail safety@dcpmidstream.com
Contact person Mark Prewitt
Emergency phone number CHEMTREC - 24 HOURS: 800-424-9300

2. Hazard(s) identification

Physical hazards Flammable liquids Category 1
Health hazards Skin corrosion/irritation Category 2
Germ cell mutagenicity Category 1B
Carcinogenicity Category 1A
Reproductive toxicity (fertility) Category 2
Specific target organ toxicity, single Category 3 narcotic effects
Specific target organ toxicity, repeated Category 2 liver, kidney
Aspiration hazard Category 1

OSHA hazard(s) Not Classified

Label elements
Hazard symbol



Signal word Danger
Hazard statement Extremely flammable liquid and vapor. May cause drowsiness or dizziness. Suspected of damaging fertility or the unborn child. Causes skin irritation. Toxic to aquatic life with long lasting effects. May cause genetic defects. May be fatal if swallowed and enters airways. May cause cancer. May be fatal if swallowed and enters airways.

Precautionary statement

Prevention Use only outdoors or in a well-ventilated area. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/protective clothing/eye protection/face protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Response If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. If swallowed: Immediately call a poison center/doctor/. Do not induce vomiting. Call a poison center/doctor if you feel unwell.

Storage Protect from sunlight. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC) Not classified.

Environmental HazardsHazardous to the aquatic environment,
long-term hazard

Category 2

3. Composition/information on ingredients

Mixture

Hazardous components

Chemical name	Common name and synonyms	CAS number	%
Natural gasoline		68425-31-0	100
Pentane		109-66-0	1-20
Isopentane		78-78-4	0-18
n-Hexane		110-54-3	2-13
Cyclohexane		110-82-7	1-5
Benzene		71-43-2	0-2

Composition comments

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures**Inhalation**

Immediately remove from further exposure. Get immediate medical assistance. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection.

Give supplemental oxygen, if available. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.

Skin contact

Immediately remove contaminated clothing. Wash with soap and water. Continue to rinse for at least 15 minutes. In case of rashes, wounds or other skin disorders: Seek medical attention and bring along these instructions.

Eye contact

Immediately flush with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists.

Ingestion

Immediately rinse mouth and drink plenty of water or milk. Keep person under observation. Do not induce vomiting. If vomiting occurs, keep head low. Seek immediate medical attention or advice.

Most important symptoms/effects, acute and delayed

Not available

Indication of immediate medical attention and special treatment needed

Treat symptomatically. Be aware that symptoms of chemical pneumonia (shortness of breath) may occur several hours after exposure.

General information

Get medical attention if any discomfort develops. Refer to the Emergency Response Procedures for Ships Carrying Dangerous Goods (EmS Guide) and the Medical First Aid Guide for Use in Accidents Involving Dangerous Goods (MFAG) as necessary.

5. Fire-fighting measures**NFPA 704 Hazard Class**

Health: 1

Flammability: 3

Instability: 0

(0-Minimal, 1-Slight, 2-Moderate, 3-Serious, 4-Severe)

Suitable extinguishing media	Water spray, foam, dry powder or carbon dioxide.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Not applicable.
Special protective equipment and precautions for firefighters	Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire-fighting equipment/instructions	Move containers from fire area if you can do it without risk. Use water spray to cool unopened containers. Cool containers with flooding quantities of water until well after fire is out.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Stay upwind. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid inhalation of vapors and spray mist and contact with skin and eyes. Wear suitable protective clothing, gloves and eye/face protection. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Remove sources of ignition. Beware of the explosion danger. Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Small Spills: Absorb spillage with non-combustible, absorbent material. Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labeled container. Large Spills: Remove with vacuum trucks or pump to storage/salvage vessels. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Wash area with soap and water.
Environmental precautions	Prevent spreading over a wide area (e.g. by containment or oil barriers). Do not contaminate water. Contact local authorities in case of spillage to drain/aquatic environment.

7. Handling and storage

Precautions for safe handling	Provide adequate ventilation. Avoid inhalation of vapors/mist and contact with skin and eyes. The product is extremely flammable, and explosive vapor/air mixtures may be formed even at normal room temperatures. Ground container and transfer equipment to eliminate static electric sparks. Vapors are heavier than air and may travel along the floor and in the bottom of containers. Use non-sparking hand tools and explosion-proof electrical equipment. Wear appropriate personal protective equipment. Immediately change contaminated clothes. Do not eat, drink or smoke when using the product. Observe good industrial hygiene practices. Use only bottom loading of tankers, in compliance with European legislation. Do not use compressed air for filling, discharging, or handling operations. Empty containers may contain flammable product residues.
Conditions for safe storage, including any incompatibilities	Store in a well-ventilated place. Follow rules for flammable liquids. Keep away from heat, spark, open flames and other sources of ignition. Store in a cool, dry place. Store in tightly closed original container. Keep away from food, drink and animal feeding stuffs. Store away from incompatible materials.

8. Exposure controls/personal protection

Occupational exposure limits

U.S. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Components	Type	Value
Benzene (CAS 71-43-2)	STEL	5 ppm

TWA 1 ppm

U.S. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Cyclohexane (CAS 110-82-7)	PEL	1050 mg/m3
		300 ppm
n-Hexane (CAS 110-54-3)	PEL	1800 mg/m3
		500 ppm
Pentane (CAS 109-66-0)	PEL	2950 mg/m3
		1000 ppm

U.S. OSHA Table Z-2 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Benzene (CAS 71-43-2)	Ceiling	25 ppm
	TWA	10 ppm

U.S. ACGIH Threshold Limit Values

Components	Type	Value
Benzene (CAS 71-43-2)	STEL	2.5 ppm
	TWA	0.5 ppm
Cyclohexane (CAS 110-82-7)	TWA	100 ppm
Isopentane (CAS 78-78-4)	TWA	600 ppm
n-Hexane (CAS 110-54-6)	TWA	50 ppm
Pentane	TWA	600 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Benzene (CAS 71-43-2)	REL	0.1 ppm
	STEL	1 ppm
Cyclohexane (CAS 110-82-7)	REL	1050 mg/m3
		300 ppm
Pentane (CAS 109-66-0)	Ceiling	1800 mg/m3
		610 ppm
	REL	350 mg/m3 120 ppm

Biological Limit Values

US. ACGIH. BEIs. Biological Exposure Indices

Components	Value	Determinant
Benzene (CAS 71-43-2)	25 µg/g	S-Phenylmercapturic acid
n-Hexane (CAS 110-54-3)	0.4 mg/l	2,5-Hexanedion, Without hydrolysis

* - For sampling details, please see the source document.

Exposure guidelines

US. ACGIH Threshold Limit Values

Benzene (CAS 71-43-2) Can be absorbed through the skin.
n-Hexane (CAS 110-54-3) Can be absorbed through the skin.

US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants

BENZENE (CAS 71-43-2) Can be absorbed through the skin.
N-HEXANE (CAS 110-54-3) Can be absorbed through the skin.

US. Rhode Island Hazardous Substances Right-to-Know Act (R.I. Gen. Laws Section 28-21-1 et. seq.)

Benzene (CAS 71-43-2) Can be absorbed through the skin.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear goggles/face shield.

Skin protection Hand protection

Wear protective gloves. Nitrile gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable. Suitable gloves can be recommended by the glove supplier.

Other

Protection suit must be worn.

Respiratory protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Respirator type: Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister. Contact health and safety professional or manufacturer for specific information.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using, do not eat, drink or smoke. Wash hands after handling. Launder contaminated clothing before reuse. Private clothes and working clothes should be kept separately. Observe any medical surveillance requirements. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Appearance Colorless liquid.

Physical state Liquid.

Form Liquid

Color Colorless.

Odor Odorless.

Odor threshold Not available.

pH Not available.

Melting point/freezing point Not available.

Initial boiling point and boiling range 84.2 (29 °C)

Flash point -70.6 °F (-57 °C)

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit – lower (%) 1.4%

Flammability limit – upper (%) 7.6 %

Vapor pressure Not available.

Vapor density	Not available.
Relative density	0.75 (Water=1)
Relative density temperature Solubility(ies)	68 °F (20 °C) Slightly soluble in water
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	536 °F (280 °C)
Decomposition temperature	Not available.
Viscosity	Not available.

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Stable under normal temperature conditions.
Possibility of hazardous Reactions	Hazardous polymerization does not occur.
Conditions to avoid	Heat, flames and sparks. Elevated temperatures and incompatible materials.
Incompatible materials	Strong acids. Strong oxidizing agents.
Hazardous decomposition Products	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

11. Toxicological information

Information on likely routes of exposure

Ingestion	May be fatal if swallowed and enters airways.
Inhalation	May cause drowsiness or dizziness.
Skin contact	Causes skin irritation.
Eye contact	May cause eye irritation.
Symptoms related to the physical, chemical and toxicological characteristics	Headaches, dizziness, fatigue, nausea and vomiting. Prolonged skin contact may cause redness, irritation and dry skin.
Information on toxicological effects	
Acute toxicity	Breathing of high concentrations may cause dizziness, light-headedness, headache, nausea and loss of coordination. Continued inhalation may result in unconsciousness.

Components	Species	Test Results
Cyclohexane (CAS 110-82-7)		
Acute		
<i>Oral</i>		

LD50	Rat	12705 mg/kg
Isopentane (CAS 78-78-4)		
Acute		
<i>Inhalation</i>		
LC50	Mouse	450 mg/l, 2 Hours
Pentane (CAS 109-66-0)		
Acute		
<i>Inhalation</i>		
LC50	Rat	364 mg/l, 4 Hours
Skin corrosion/irritation	Causes skin irritation. Pre-existing skin conditions including dermatitis might be aggravated by exposure to this product.	
Serious eye damage/eye Irritation	May cause eye irritation on direct contact.	
Respiratory sensitization	Not classified.	
Skin sensitization	Not a skin sensitizer.	
Germ cell mutagenicity	May cause genetic defects.	
Carcinogenicity	No data available.	
IARC Monographs. Overall Evaluation of Carcinogenicity		
Benzene (CAS 71-43-2)	1 Carcinogenic to humans.	
Natural Gasoline (CAS 68425-31-0)	2B Possibly carcinogenic to humans.	
NTP Report on Carcinogens		
Benzene (CAS 71-43-2)	Known To Be Human Carcinogen.	
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)		
Benzene (CAS 71-43-2)	Cancer hazard.	
Reproductive toxicity	May cause adverse reproductive effects - such as birth defects, miscarriages, or infertility.	
Specific target organ toxicity - single exposure	May cause drowsiness.	
Specific target organ toxicity - repeated exposure	Causes damage to the following organs through prolonged or repeated exposure: Liver Kidneys.	
Aspiration hazard	Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.	
Chronic effects	Prolonged or repeated contact with skin may cause redness, itching, irritation, eczema/chapping and oil acne. May cause central nervous system depression. May cause damage to the liver and kidneys.	

12. Ecological information

Ecotoxicity Toxic to aquatic organisms, may cause long term adverse effects to the environment.

Components	Species	Test Results
Cyclohexane (CAS 110-82-7)		
Aquatic		

Fish	LC50	Fathead minnow (<i>Pimephales promelas</i>)	3.961 - 5.181 mg/l, 96 hours
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Pentane (CAS 109-66-0)

Aquatic

Crustacea	LC50	Daphnia	2.3 mg/l, 48 Hours
Fish	LC50	Fish	3.1 mg/l, 96 Hours

Persistence and degradability The degradability of the product has not been stated. The product meets the definition of the International Oil Pollution Compensation (IOPC) Fund as being a "non-persistent" oil. Bioaccumulative potential.

Partition coefficient n-octanol / water (log Kow)

Benzene	2.13
Isopentane	2.3
Pentane	3.39
Cyclohexane	3.44
n-Hexane	3.9

Mobility in soil Not available.
Other adverse effects Not established.

13. Disposal considerations

Disposal instructions Product is suitable for burning in an enclosed, controlled burner for fuel value or disposal by supervised incineration.
Local disposal regulations Dispose of in accordance with local regulations.
Hazardous waste code D001: Waste Flammable material with a flash point <140 °F
Waste from residues / unused Products Dispose of in accordance with local regulations
Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

UN number UN1203
UN proper shipping name Gasoline
Transport hazard class(es) 3
Subsidiary class(es) -
Packing group II
Special precautions for user Not available.
Labels required 3
Special provisions 144, 177, B1, B33, IB2, T4, TP1
Packaging exceptions 150
Packaging non bulk 202
Packaging bulk 242

IATA

UN number UN1203
UN proper shipping name Gasoline
Transport hazard class(es) 3
Subsidiary class(es) -
Packaging group II
Labels required 3
ERG Code Not available.
Special precautions for user Not available.

IMDG

UN number UN1203
UN proper shipping name Gasoline
Transport hazard class(es) 3
Subsidiary class(es) -
Packaging group II

Labels required 3
EmS Not available.
Special precautions for user Not available.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
No information available.

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Benzene (CAS 71-43-2) 29 CFR 1910.1028

CERCLA Hazardous Substance List (40 CFR 302.4)

Benzene (CAS 71-43-2) LISTED

Cyclohexane (CAS 110-82-7) LISTED

Isopentane (CAS 78-78-4) LISTED

n-Hexane (CAS 110-54-3) LISTED

Pentane (CAS 109-66-0) LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes

Delayed Hazard - Yes

Fire Hazard - Yes

Pressure Hazard - Yes

Reactivity Hazard - No

SARA 302 Extremely hazardous substance

No

SARA 311/312 Hazardous Chemical

Yes

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Benzene (CAS 71-43-2)

n-Hexane (CAS 110-54-3)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Isopentane (CAS 78-78-4)

Pentane (CAS 109-66-0)

Safe Drinking Water Act (SDWA)

Not regulated.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Not regulated.

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Toluene (CAS 108-88-3) 35 %WV

DEA Exempt Chemical Mixtures Code Number

Toluene (CAS 108-88-3) 594

Food and Drug

Administration (FDA)

Not regulated.

US state regulations WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

US. Massachusetts RTK - Substance List

Benzene (CAS 71-43-2)

Cyclohexane (CAS 110-82-7)

Isopentane (CAS 78-78-4)

n-Hexane (CAS 110-54-3)

Pentane (CAS 109-66-0)

US. New Jersey Worker and Community Right-to-Know Act

Benzene (CAS 71-43-2) 500 LBS

Cyclohexane (CAS 110-82-7) 500 LBS

Isopentane (CAS 78-78-4) 500 LBS
n-Hexane (CAS 110-54-3) 500 LBS
Pentane (CAS 109-66-0) 500 LBS

US. Pennsylvania RTK - Hazardous Substances

Benzene (CAS 71-43-2)
Cyclohexane (CAS 110-82-7)
Isopentane (CAS 78-78-4)
Natural gasoline (CAS 68425-31-0)
n-Hexane (CAS 110-54-3)
Pentane (CAS 109-66-0)

US. Rhode Island RTK

Benzene (CAS 71-43-2)
Cyclohexane (CAS 110-82-7)
n-Hexane (CAS 110-54-3)
Pentane (CAS 109-66-0)

US. California Proposition 65

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Benzene (CAS 71-43-2)

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

16. Other information, including date of preparation or last version

Issue date 11-28-2012

Revision date – 2-6-2013

Version # 01

Further information Not available.

References ACGIH

EPA: Acquire database

NLM: Hazardous Substances Data Base

US. IARC Monographs on Occupational Exposures to Chemical Agents

Disclaimer This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.