

# Safety Data Sheet

## SECTION 1: IDENTIFICATION

### 1.1. Product Identifier

**Product Form:** Mixture

**Product Name:** PURATECH GDI Fuel Injector Cleaner

**Product Grades/Codes:**

PURATECH GDI Fuel Injector Cleaner- 2010701080 (12x12OZ Case)

**Synonyms:** Fuel Injector Cleaner

### 1.2. Intended Use of the Product

Industrial Solvent Cleaner

### 1.3. Company Identification

North American Lubricants Company  
7337 E. Doubletree Ranch Road, Suite 180  
Scottsdale, AZ 85258  
(800)430-6252  
[www.nalube.com](http://www.nalube.com)

### 1.4. Emergency Telephone Number

**Emergency Number** : CHEMTREC: (800)424-9300 or (703)527-3887

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the Substance or Mixture

**Classification (GHS-US)**

Flammable Liquid (Category 2), Acute Toxicity Oral (Category 4), Eye damage/irritation (Category 2A), Reproductive Toxicity (Category 2), Carcinogenicity (Category 2), Target Organ Toxicity - single dose (Cat 3), Target Organ Tox- repeated exp. (Cat 2), Aquatic Hazard-short term (Category 3), Aquatic Hazard- long term (Category 3), Skin Corrosion/Irritation (Category 2)

Full text of H-phrases: see section 16

### 2.2. Label Elements

**GHS-US Labeling**

**Hazard Pictograms (GHS-US)** :



**Signal Word (GHS-US)** :

**DANGER**

**Hazard Statements (GHS-US)** :

**HAZARDS:** Highly flammable liquid and vapor. Harmful if swallowed. Eye contact causes serious eye irritation. Suspected of damaging fertility or the unborn child. Suspected of causing cancer. Breathing vapors may cause respiratory tract irritation or may cause drowsiness or dizziness. Repeated ingestion, absorption, or inhalation exposure may cause damage to kidneys, liver, lungs. Harmful to aquatic life. Harmful to aquatic life with long lasting effects. Skin contact causes skin irritation.

**Precautionary Statements (GHS-US)** :

Do not handle until all safety instructions are understood. Avoid breathing fumes or mist. Avoid skin contact. Wear protective clothing, gloves, and eye protection before handling. Use only with adequate ventilation.

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### 2.3. Other Hazards

May be hazardous to soil dwelling organisms.

### 2.4. Unknown Acute Toxicity (GHS-US)

None of the mixture consists of ingredient(s) of unknown acute toxicity.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

Not applicable

### 3.2. Mixture

Name	Product Identifier	% Range	Classification (GHS-US)
Aliphatic Naptha	(CAS No) 64475-85-0	60 - 100	Not Classified
Mixed Xylenes	(CAS No) Mixture	15 - 40	Not Classified
4-Methyl-2-Pentanone	(CAS No) 108-10-1	5 - 15	Not Classified
Aromatic Hydrocarbon Polymer Mixture	(CAS No) Mixture	1 - 5	Not Classified

Exact percentages and component identities are being withheld as trade secrets. Occupational Exposure Levels, Toxicity, and Ecological information on components is shown in Sections 8, 11, and 12 below. Users should read and understand the entire SDS. More specific information on components will be released to medical professionals in case of emergency.

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of First Aid Measures

First responders should wear clothing appropriate for industrial exposure in accordance with local codes. At a minimum, all exposed skin should be covered, and latex gloves and eye protection meeting ANSI Z87 or CSA Z94.3 should be worn. First responders should avoid contact with spilled material. Spills of this material present a slip hazard. If smoke, fumes, or airborne mist is present, first responders should use organics respirator or self-contained breathing apparatus.

**Swallowed:** Do not induce vomiting. Rinse mouth. Get immediate medical attention.

**Inhalation:** Remove affected person to fresh air and make comfortable for breathing. Get immediate medical attention.

**Skin Contact:** Remove all contaminated clothing. Wash exposed skin/hair with soap and water.

**Eye Contact:** Remove contact lenses and rinse eyes with cool water. Get immediate medical attention.

**Ingestion:** Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

**Exposure:** Contact physician if you feel unwell.

**Most Important Symptoms:** ACUTE: Respiratory effects, vision effects. DELAYED: Dermatological effects.

**Indication of Immediate Medical Attention:** Difficulty breathing, dizziness, extreme drowsiness, eye irritation, loss of vision, skin rash.

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### SECTION 5: FIRE-FIGHTING MEASURES

#### 5.1. Hazardous Decomposition Products

Byproducts of combustion include carbon dioxide, carbon monoxide, oxides of sulfur, oxides of nitrogen, and heavy, acrid smoke.

#### 5.2. Appropriate Extinguishing Media

Avoid spraying water jet on burning hydrocarbon liquids as this may spread the fire. Use dry chemical or foam extinguishing media.

#### 5.3. Specific Fire Hazards

Firefighters must be protected from smoke with self-contained breathing apparatus. Heavy smoke may obscure vision. Smoke may contain oxides of carbon, nitrogen, sulfur, and chlorine.

#### 5.4. Special Protective Actions

Use water spray to cool exposed containers.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1. Personal Precautions

Spills present a slip hazard. Extinguish/disconnect possible sources of ignition near spill. Ensure adequate ventilation of fumes from affected area. Remove unnecessary personnel from area around spill. Prior to cleaning up, don protective gear including chemical and hydrocarbon resistant outer layer, latex or rubber gloves, rubber boots, and eye protection. Emergency responders should wear chemical and hydrocarbon resistant gear.

#### 6.2. Environmental Precautions

Small spills may be wiped up with rags. For spills >10 liters- if possible, to safely do so, contain the spilled material using diatomaceous earth and/or absorbent pads. Dike drains and prevent material from entering sewers, ditches, drains, or water courses. Place absorbed material into sealed storage containers and consult an environmental expert for proper disposal measures. Immediately report any discharges that escape containment to the local environmental authority or fire department.

#### 6.3. Methods for Cleaning Up

Absorption with diatomaceous earth and/or absorbent pads is best. Do not use vacuum. Do not wash hydrocarbon or chemical spills away into sewers or drains. Use proper disposal methods for spent absorbents and contaminated rags or clothing.

### SECTION 7: HANDLING AND STORAGE

#### 7.1. Precautions for Safe Handling

**Precautions for Handling:** Read and understand entire Safety Data Sheet prior to handling. Wear all appropriate protective gear prior to handling. Do not allow untrained personnel to handle this product. Handle with care to avoid spillage.

**Methods for Safe Storage:** Store only in original containers. Store containers indoors away from heat and flames. Store in secure location with good ventilation. Keep container sealed when not transferring product. Protect from rain and extreme cold. Avoid storage of hydrocarbons near strong mineral acids or materials marked "Oxidizer".

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

No exposure limits are established for this mixture. Users should use lowest exposure value shown for components in this section.

Component Information – Occupational Exposure Limits	
Aliphatic Naptha	TWA 25 ppm
Mixed Xylenes	Xylene ANESL 42 ppb; Ethylbenzene AN ESL 570 mg/m <sup>3</sup> ; Toluene TWA 20 ppm
4-Methyl-2-Pentanone	TWA: 50 STEL: 75 CEIL: 125 (ppm) from ACGIH (TLV) [1995] TWA: 205 STEL: 300 CEIL: 510 (mg/m <sup>3</sup> ) from ACGIH
Aromatic Hydrocarbon Polymer	PEL OSHA TWA 8 HRS 100 PPM

### 8.2. Exposure Controls

**Appropriate Engineering Controls:** Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

**Personal Protective Equipment:** Protective goggles. Gloves. Insufficient ventilation: wear respiratory protection.



**Materials for Protective Clothing:** Chemically resistant materials and fabrics.

**Hand Protection:** Wear chemically resistant protective gloves.

**Eye Protection:** Chemical goggles or safety glasses.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

**Environmental Exposure Controls:** Do not allow the product to be released into the environment.

**Consumer Exposure Controls:** Do not eat, drink or smoke during use.

**Engineering Controls:** Engineering controls should ensure adequate ventilation to keep airborne concentrations below threshold values shown above. Pumps and handling equipment should be designed to reduce human exposure potentials to liquids being transferred from containers into closed systems.

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### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1. Information on Basic Physical and Chemical Properties

Appearance	: Clear to Hazy Liquid
Odor	: Low Indescript
Odor Threshold	: No Data Available
pH	: N/A Oil Based
Melting Point	: Liquid Under Intended Use Conditions
Freezing Point	: 0 to -20
Initial Boiling Point	: No Data Available
Boiling Point	: 313 °C – 432 °C
Flash Point	: <23 °C
Evaporation Rate	: <1 (n-butyl acetate = 1)
Upper Explosive Limit	: 5.4
Lower Explosive Limit	: 0.7
Vapor Pressure	: 0.8mm Hg 20 °C
Vapor Density	: >1 (air = 1)
Relative Density	: 0.75 kg/l 60 °C
Solubility	: Hydrocarbons, Alcohols
Partition Coefficient	: Low KOW >4 (Mineral Oil Data)
Auto Ignition Temp	: Not Determined
Decomposition Temp	: Not Determined
Viscosity cSt 40 °C	: <14.5 cSt 40 °C

### SECTION 10: STABILITY AND REACTIVITY

#### 10.1. Reactivity

May react violently if combined with strong oxidizers and heat.

#### 10.2. Chemical Stability

Stable under recommended storage conditions.

#### 10.3. Conditions to Avoid

Keep away from fire, sparks, and other sources of ignition.

#### 10.4. Possibly Hazardous Reactions

None known.

#### 10.5. Incompatible Materials

Strong acids and materials marked 'Oxidizer'.

#### 10.5. Hazardous Decomposition Products

Byproducts of combustion include carbon dioxide, carbon monoxide, oxides of sulfur, oxides of nitrogen, and heavy acid smoke.

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According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Symptoms of Exposure

**Likely Routes of Exposure:** Dermal exposure from handling. Intended use may include hand wiping or handling parts having product residues on them. Inhalation exposure to fumes is possible if used without adequate ventilation.

**Ingestion:** Ingestion of minimal amounts, e.g. failure to wash hands before eating/smoking, is unlikely to cause symptoms. Swallowing of liquid product may cause vomiting and nausea.

**Inhalation:** No symptoms are expected under intended use conditions. Exposure to concentrated fumes may cause transient hypoxia.

**Dermal/Eye:** Dermal exposure results in defatting and localized irritation. Eye exposure causes transient stinging and blurred vision.

**Immediate of Delayed Effects:** Immediate: Hypoxia symptoms from inhalation of concentrated solvent vapors. Delayed: None Known.

**Interactive Effects:** None known

### 11.2. Information on Toxicological Effects

Components (all LD/LC/EC 50 values shown below are based on animal or fish data) at max range value section 3.

<b>Acute Oral Toxicity:</b>	ALIPHATIC NAPHTHA: Non Hazardous; MIXED XYLENES: LD50 4,300 mg/Kg; 4-METHYL-2-PENTANONE: LD50 1600 mg/Kg; AROMATIC HYDROCARBON POLYMER MIXTURE: Non Hazardous
<b>Acute Skin Toxicity:</b>	ALIPHATIC NAPHTHA: Non Hazardous; MIXED XYLENES: LD50 14,100 mg/Kg; 4-METHYL-2-PENTANONE: LD50 20001 mg/kg mg/Kg; AROMATIC HYDROCARBON POLYMER MIXTURE: Non Hazardous
<b>Acute Toxicity Inhalation:</b>	ALIPHATIC NAPHTHA: Non Hazardous; MIXED XYLENES: LD50 4,550 mg/Kg; 4-METHYL-2-PENTANONE: LD50 LC50: 8000 ppm 4 hours (Rat) mg/Kg; AROMATIC HYDROCARBON POLYMER MIXTURE: Non Hazardous
<b>Skin Corrosion:</b>	ALIPHATIC NAPHTHA: Non Irritating; MIXED XYLENES: Cat 2 Irritant; 4-METHYL-2-PENTANONE: Non Irritating; AROMATIC HYDROCARBON POLYMER MIXTURE: Cat 2 Irritant
<b>Eye Corrosion:</b>	ALIPHATIC NAPHTHA: Cat 2A Serious Irritation; MIXED XYLENES: Cat 2A Serious Irritation; 4-METHYL-2-PENTANONE: Cat 2A Serious Irritation; AROMATIC HYDROCARBON POLYMER MIXTURE: Cat 2A Serious Irritation
<b>Respiratory Sensitization:</b>	ALIPHATIC NAPHTHA: Non Sensitizing; MIXED XYLENES: Non Sensitizing; 4-METHYL-2-PENTANONE: No Data Available; AROMATIC HYDROCARBON POLYMER MIXTURE: Non Sensitizing
<b>Skin Sensitization:</b>	ALIPHATIC NAPHTHA: Non Sensitizing; MIXED XYLENES: Non Sensitizing; 4-METHYL-2-PENTANONE: No Data Available; AROMATIC HYDROCARBON POLYMER MIXTURE: Non Sensitizing
<b>Germ Cell Mutagenicity:</b>	ALIPHATIC NAPHTHA: No Data Available; MIXED XYLENES: No Hazard; 4-METHYL-2-PENTANONE: No Data Available; AROMATIC HYDROCARBON POLYMER MIXTURE: No Hazard
<b>Carcinogen:</b>	ALIPHATIC NAPHTHA: No Hazard; MIXED XYLENES: Cat 1B Presumed Human Effects; 4-METHYL-2-PENTANONE: No Data Available; AROMATIC HYDROCARBON POLYMER MIXTURE: Cat 1B Presumed Human Effects
<b>Reproductive Effects:</b>	ALIPHATIC NAPHTHA: No Hazard; MIXED XYLENES: Cat 1B Reproductive Toxicant; 4-METHYL-2-PENTANONE: No Data Available; AROMATIC HYDROCARBON POLYMER MIXTURE: No Hazard
<b>Target Organ 1 Exposure:</b>	ALIPHATIC NAPHTHA: No Hazard; MIXED XYLENES: No Hazard; 4-METHYL-2-PENTANONE: Cat 3 Transient Toxicant - CNS, Liver, Kidneys; AROMATIC HYDROCARBON POLYMER MIXTURE: No Hazard
<b>Target Organ Multiple Exposure:</b>	ALIPHATIC NAPHTHA: No Hazard; MIXED XYLENES: No Hazard; 4-METHYL-2-PENTANONE: No Hazard; AROMATIC HYDROCARBON POLYMER MIXTURE: Cat 2 Toxicant- CNS, Liver, Kidneys (animal data)
<b>Aspiration Hazard:</b>	ALIPHATIC NAPHTHA: No Hazard; MIXED XYLENES: No Hazard; 4-METHYL-2-PENTANONE: No Hazard; AROMATIC HYDROCARBON POLYMER MIXTURE: Cat 1 Aspiration Hazard
<b>Other Information:</b>	Avoid application by mist and concentration of solvent mists in air, which are potentially explosive.

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According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

**SECTION 12: ECOLOGICAL INFORMATION****12.1. Toxicity**

<b>Ecological Summary:</b>	Mineral oil/solvent blends and solvents have varying degrees of toxicity and degradability. Specific information on components is shown below.
<b>Bioaccumulation:</b>	Mineral oil/solvent blends and solvents have low bioaccumulation potential. Specific information on components is shown below.
<b>Persistence &amp; Degradability:</b>	Mineral oil/solvent blends and solvents are inherently biodegradable. OECD Values range from 25% to 60% in 28 days.
<b>Waste Treatment Effects:</b>	Product residues are not expected to enter publicly operated treatment works. No negative effects of this mixture are known.
<b>Soil Mobility:</b>	Mineral oil/solvent blends and solvents will partition rapidly to air, are expected to have low soil mobility potential.
<b>Other Adverse Effects:</b>	None Known

**12.2. Toxicity to Aquatic Organisms, Component Information**

<b>Aquatic Toxicity Acute:</b>	ALIPHATIC NAPHTHA: No Data Available; MIXED XYLENES: Non Toxic; 4-METHYL-2-PENTANONE: Non Toxic; AROMATIC HYDROCARBON POLYMER MIXTURE: L(E)C5011-100mg/l
<b>Aquatic Toxicity Long Term:</b>	ALIPHATIC NAPHTHA: No Data Available; MIXED XYLENES: No Chronic Aquatic Toxicity; 4-METHYL-2-PENTANONE: No Chronic Aquatic Toxicity; AROMATIC HYDROCARBON POLYMER MIXTURE: Cat 3 Chronic Aquatic Effects

**12.3. Ozone**

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by 40 CFR 82, Subpt. A, App.A +8.

**SECTION 13: DISPOSAL CONSIDERATIONS****13.1. Disposal Containers & Methods**

Unused material is not a RCRA hazardous waste. Mixture with other wastes may cause classification as hazardous waste. Users must determine compliance with local, state, and federal regulations for proper classification and disposal of used oils and mixtures thereof. Suitable containers include steel and polyethylene drums and totes, for containment of used oil. Secondary containment is advised. Containers should be kept sealed and protected from rain and exposure.

**13.2. Physical Chemical Properties Affecting Disposal**

Changes in physical and chemical properties during use, such as contamination with lead, zinc, or other metals, may affect classification for disposal. Used oils should be tested to determine metals content and applicable local, state, and federal regulations governing disposal of such fluids.

**13.3. Improper Disposal**

Discharging of oily wastes into any sewer, watercourse, or unregulated drain is discouraged as improper and may result in fines, penalties, cleanup costs, and criminal liabilities for responsible parties.

**13.4. Precautions for Landfill**

Oily liquid should not be disposed in a landfill. Disposal of oily absorbents, rags, or other items into a landfill should only be done with proper permission from local, state, and federal authorities.

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### SECTION 14: TRANSPORT INFORMATION

#### 14.1. US DOT 49 CFR Part 171-180

Proper Shipping Name:: Flammable Liquid UN1993, (petroleum naptha)

Transport Hazard Class:: 3

Packing Group:: III

Labels:: 3

Marine Pollutant:: No

UN/ID/NA Number:: 1993

ERGCode:: 128

#### 14.2. IATA-DGR

IATA Proper Shipping Name:: Flammable Liquid UN1993, (petroleum naptha)

IATA Class:: 3

IATA Packing Group:: III

IATA Labels:: 3

UN/ID/NA Number:: 1993

#### 14.3. IMDG-CODE

IMDG Proper Shipping Name:: Flammable Liquid UN1993, (petroleum naptha)

IMDG Shipping Class:: 3

IMDG Packing Group:: III

IMDG Labels:: 3

IMDG Marine Pollutant:: No

IMDG UN/ID Number:: 1993

#### 14.4. MARPOL 73/78 Annex II

MARPOL:: Not available for sale in bulk marine shipments

Special Precautions:: None

### SECTION 15: REGULATORY INFORMATION

#### 15.1. US Federal Regulations

**Note:** Information provided in this section reflects the best available information from suppliers of components used to manufacture this mixture, as of the date of this revision shown below.

**OSHA 1910.120 Hazardous Chemical:** Hazards are classified as reported in Section 2 above.

**SARA 302 EHS:** No known hazard or not listed

**SARA 311/312:** ACUTE: No CHRONIC: No FIRE: Yes PRESSURE: No REACTIVITY: No

**SARA 313 EHS:** No known hazard or not listed

**TSCA Status:** All components are properly registered



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### 15.2. US Federal Regulations

**CA Prop 65:** WARNING: This product contains a chemical known to the State of California to cause cancer. This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. Cumene, Ethylbenzene, Naphthalene.

### 15.3. US State Right to Know Information

**IL RTK:** Not known hazard or not listed

**MA RTK:** Stoddard solvent; Naphtha; hydrodesulfurized heavy; Ethylmethylbenzene; xylene Ethylbenzene, CAS 100-41-1; Xylene, CAS 1330-20-7

**MN RTK:** Not known hazard or not listed

**NJ RTK:** Ethylbenzene, CAS 100-41-1; Xylene, CAS 1330-20-7;

**NY RTK:** Ethylbenzene, CAS 100-41-1; Xylene, CAS 1330-20-7;

**PA RTK:** Ethylbenzene, CAS 100-41-1; Xylene, CAS 1330-20-7;

**RI RTK:** Not known hazard or not listed

**Safe Drinking Water Act:** No known hazard or not listed

### 15.4. Canada WHMIS

**Hazard Class:** B-1, D-2A, B-2

### 15.5. International Chemical Inventory Status

Australia AICS

Japan ENCS

Korea ECL

Canada DSL

China IECSC

Europe EINECS

Philippines PICCS

Canada NDSL

Europe ELINCS

New Zealand Inv

**REACH:** All components are included in the REACH registry

## SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Revision Date** : 08/21/2020

**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

#### GHS Full Text Phrases:

H225 : Highly flammable liquid and vapor

H302 : Harmful if swallowed

H319 : Causes serious eye irritation

H361 : Suspected of damaging fertility or the unborn child (state specific effect if known) (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)

H351 : Suspected of causing cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)

H371 : May cause damage to organs (or state all organs affected, if known)(state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)

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- H373 : May cause damage to organs (state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)
- H402 : Harmful to aquatic life
- H412 : Harmful to aquatic life with long lasting effects
- H315 : Causes skin irritation

### Party Responsible for the Preparation of This Document

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*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. North American Lubricants Company assumes no responsibility for injury from the use of the product described herein.*

North America GHS US 2012 & WHMIS 2