

# **SAFETY DATA SHEET**

Version 3 Issue Date 01-31-2018 Revision Date 01-31-2018

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

**Product Name: FUEL-INJECTOR CLEANER** 

Other means of identification

**Common Name:** 0106

UN/ID No NA1993 (Domestic)

**Synonyms** None

**Product Categories** Petroleum based cleaner

Recommended use of the chemical and restrictions on use

Sale and Use Restrictions Not applicable

Restricted to professional users. **Recommended Use** 

Consumer use Uses advised against

Details of the supplier of the safety data sheet

Supplier Address

MOC PRODUCTS CO., INC. 12306 Montague Street Pacoima, CA 91331

Emergency telephone number

Company Phone Number Emergency Telephone MOC PRODUCTS CO., INC. (818) 794-3500

CHEMTREC 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

#### Classification

Acute toxicity - Inhalation (Vapors)	Category 3
Germ cell mutagenicity	Sub-category 1B
Carcinogenicity	Category 2
Aspiration toxicity	Category 1
Flammable liquids	Category 4

#### Label elements

#### **Emergency Overview**

## Danger

#### Hazard statements

Toxic if inhaled
May cause genetic defects
Suspected of causing cancer
May be fatal if swallowed and enters airways
Combustible liquid



Appearance Mobile

Physical state Liquid

**Odor** Solvent

#### **Precautionary Statements - Prevention**

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Keep away from heat/sparks/open flames/hot surfaces. — No smoking

Keep cool

#### **Precautionary Statements - Response**

If exposed or concerned: Get medical advice/attention

Specific treatment (see response statements below and Section 4 of the Safety Data Sheet)

IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CONTROL CENTER or doctor/physician

IF SWALLOWED: Immediately call a POISON CONTROL CENTER or doctor/physician

Do not induce vomiting

In case of fire: Use CO2, dry chemical, or foam for extinction

# **Precautionary Statements - Storage**

Store locked up

Store in a well-ventilated place. Keep container tightly closed

Store in a dry place

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

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#### Other information

- · May be harmful in contact with skin
- · Harmful to aquatic life with long lasting effects
- 2.93 % of the mixture consists of ingredient(s) of unknown toxicity

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Weight %	Trade Secret
Hydrotreated Light Petroleum Distillates	64742-47-8	90-100	*
Light Aromatic Solvent Naphtha	64742-95-6	1-10	*
Polyolefin Alkyl Phenol Alkyl Amine	PROPRIETARY	1-5	*
1,2,4-Trimethylbenzene	95-63-6	0.1-0.9	*
Cumene	98-82-8	0.1-0.3	*

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

# 4. FIRST AID MEASURES

First aid measures

Skin contact Immediately flush skin with plenty of water for at least 15 (30 or 60) minutes. Remove

contaminated clothing and shoes. Thoroughly clean shoes before reuse. Wash

contaminated clothing before reuse.

Inhalation IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for

breathing. Call a physician or Poison Control Center.

**Eye contact** Immediately flush eyes for at least 15 minutes. Get medical attention.

**Ingestion** Do not induce vomiting. Call a physician or Poison Control Center immediately.

**Notes to Physician** Aspiration hazard if swallowed - can enter lungs and cause damage.

Most important symptoms and effects, both acute and delayed

Symptoms Drowsiness, Dizziness, Nausea, Vomiting, Coughing and/ or wheezing; Eye irritation, Skin

irritation.

Indication of any immediate medical attention and special treatment needed

**Self-protection of the first aider** It may be dangerous to the person providing first aid to give mouth-to-mouth resuscitation.

# 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Dry chemical, Carbon dioxide (CO2), Foam, Water fog.

Small Fire Dry chemical or CO2.

**Large Fire** Water spray or fog, Foam.

**Explosive properties:** Risk of explosion if heated under confinement. May form explosive mixtures in presence of

oxidizing substances (gas/dust).

Specific hazards arising from the chemical

COMBUSTIBLE MATERIAL: May be ignited by heat, sparks or flames. Keep product and empty container away from heat and sources of ignition. Vapors may travel to source of ignition and flash back.

Hazardous combustion products Aldehydes, Hydrocarbons, Carbon dioxide (CO2), Carbon monoxide, Nitrogen oxides (NOx).

Specific methods:

Sensitivity to Mechanical Impact None.

**Sensitivity to Static Discharge** May be ignited by heat, sparks or flames.

**Special firefighting procedures:** 

Combustible liquid. Keep away from heat, sparks and flame. No action shall be taken involving any personal risk without suitable training. Evacuate surrounding areas. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Use water spray to keep fire-exposed containers cool. Do not use water jet. Move containers from fire area if you can do it without risk. Water may cause frothing of heated materials. Dike to collect large liquid spills.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions: Keep people away from and upwind of spill/leak. Remove all sources of ignition. Pay

attention to flashback. Ensure adequate ventilation. Use personal protective equipment.

See Section 8 for information on appropriate personal protective equipment.

of ignition. Pay attention to flashback. Be aware that gases can spread at ground level

(heavier than air) and pay attention to the wind direction.

**Environmental precautions** 

**Environmental precautions:** Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system.

Methods and material for containment and cleaning up

**Methods for Containment** Remove all sources of ignition. Ventilate the area. Stop leak if you can do it without risk.

Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste

container.

Methods for clean-up: Clean-up methods - small spillage: Absorb spill with inert material (e.g. dry sand or earth),

then place in a chemical waste container. Large spills present a vapor explosion and liquid fire hazard; evacuate area and ensure response by personnel trained and equipped to respond to flammable material incident or off-site emergency responders or fire department.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

#### 7. HANDLING AND STORAGE

Precautions for safe handling

**Handling:** Protect from physical damage. Do not store at temperatures above 120°F (50°C). Avoid

breathing vapors or mists. Keep product and empty container away from heat and sources of ignition. Take precautionary measures against static discharge. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose these containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Keep containers tightly closed in a cool, well-ventilated place. Empty containers retain product

residue and can be hazardous.

Conditions for safe storage, including any incompatibilities

**Technical measures/precautions:** Mechanical ventilation required if used indoors on a continuous basis. Eye wash and safety

shower should be easily accessible.

Materials to avoid: Chlorine, Strong oxidizing agents, Strong acids, Alkalis.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

**Exposure Guidelines** 

Chemical Name	ACGIH TLV	OSHA Exposure Limits:	NIOSH IDLH
Hydrotreated Light Petroleum Distillates 64742-47-8	TWA: 200 ppm	TWA: 500 ppm	-
Light Aromatic Solvent Naphtha 64742-95-6	-	TWA: 100 ppm	-
Polyolefin Alkyl Phenol Alkyl Amine PROPRIETARY	-	Not established	-
1,2,4-Trimethylbenzene 95-63-6	TWA: 25 ppm	Not established	TWA: 25 ppm TWA: 125 mg/m³
Cumene 98-82-8	TWA: 50 ppm	TWA: 50 ppm TWA: 245 mg/m³	IDLH: 900 ppm TWA: 50 ppm TWA: 245 mg/m³

#### Appropriate engineering controls

Engineering measures: Mechanical ventilation required if used indoors on a continuous basis. Eye wash and safety

shower should be easily accessible.

#### Individual protection measures, such as personal protective equipment

**Eve/face protection** Wear safety glasses with side shields (or goggles).

**Skin and body protection** Wear normal work clothing. Wear chemical resistant gloves (consult your safety equipment

supplier). Additional body garments should be used based on task being performed: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. (consult with the specific manufacturer to confirm

performance).

Respiratory protection Ensure adequate ventilation. General and local exhaust ventilation is recommended to

maintain vapor exposures below recommended limits. A respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed

whenever workplace conditions warrant a respirator's use.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. When using do not

eat, drink or smoke. Use personal protective equipment as required. Avoid contact with skin and clothing. Wash face, hands and any exposed skin thoroughly after handling. Take off

contaminated clothing and wash it before reuse.

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No information available

Solvent

Odor

Odor threshold

Not applicable

Remarks • Method

(based on components)

Pensky-Martens Closed Cup (PMCC)

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state Liquid Appearance Mobile

Color Light brown

 Property
 Values

 pH
 N/A

Melting point/freezing pointNo information availableBoiling point / boiling range> 217 °C / 422 °FFlash point89 °C / 192 °FEvaporation rateSlower than etherFlammability (solid, gas)No information available

Flammability Limits in Air

Upper flammability limit
Lower flammability limit
Vapor pressure
Vapor density

No Data Available
No Data Available
Heavier than air

Specific Gravity 0.80

Water solubility Insoluble in water Solubility in other solvents No Data Available Partition coefficient No Data Available No Data Available **Autoignition temperature Decomposition temperature** No Data Available Kinematic viscosity No information available **Dynamic viscosity** No Data Available **Explosive properties** No Data Available **Oxidizing properties** No Data Available

**Other information** 

Softening pointNo Data AvailableMolecular weightNo Data Available

**VOC Content (%)** 

VOC Content (%) 1.4

Contains a VOC exempt solvent

**Density** 0.80 g/cc

Bulk density No Data Available

## 10. STABILITY AND REACTIVITY

Reactivity

Reactivity Stable.

Chemical stability

Possibility of Hazardous Reactions May react with oxidizing agents.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid

Heat, flames and sparks.

Incompatible materials

Materials to avoid: Chlorine, Strong oxidizing agents, Strong acids, Alkalis.

**Hazardous Decomposition Products** 

<u>Hazardous Decomposition Products</u> Aldehydes, Hydrocarbons, Carbon dioxide (CO2), Carbon monoxide, Nitrogen oxides (NOx).

## 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Product Information Toxic by inhalation. May be fatal if swallowed and enters airways. May be harmful in

contact with skin.

Inhalation Toxic by inhalation. Causes respiratory tract irritation. Aspiration into lungs can produce

severe lung damage.

**Eye contact** May cause irritation: redness, stinging and tearing.

Skin Contact May be harmful in contact with skin: Repeated exposure may cause skin dryness or

cracking. May cause burns.

Ingestion May be fatal if swallowed and enters airways: Aspiration may cause pulmonary edema and

pneumonitis.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Hydrotreated Light Petroleum Distillates 64742-47-8	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.2 mg/L (Rat)4 h
Light Aromatic Solvent Naphtha 64742-95-6	-	> 2000 mg/kg (Rabbit)	> 5.2 mg/L (Rat) 4 h, = 3400 ppm (Rat) 4 h
Polyolefin Alkyl Phenol Alkyl Amine PROPRIETARY	>10000 mg/kg (Rat)	>10000 mg/kg (Rabbit)	=19171 mg/m³ (Rat) 4 h
1,2,4-Trimethylbenzene 95-63-6	= 3280 mg/kg (Rat) = 8970 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	= 18 g/m³(Rat)4 h
Cumene 98-82-8	= 1400 mg/kg (Rat)	= 12300 μL/kg(Rabbit)	> 3577 ppm (Rat) 6 h

#### Information on toxicological effects

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Sensitization** No information available.

Mutagenic effects: Is classified by the European Union as a mutagen of category 1B. Substances which should

be regarded as being mutagenic to man.

Carcinogenicity Category 2: Substances that cause cancer in animals, and are considered to cause cancer

in man:

Chemical Name	ACGIH	IARC	NTP	OSHA
Cumene		Group 2B	Reasonably Anticipated	
08-82-8		·		

Reproductive toxicity In the presence of slight maternal toxicity, fetotoxic effects have been observed in the

offspring of rats exposed by inhalation.

STOT - single exposure Not classified. STOT - repeated exposure Not classified.

**Chronic toxicity** Prolonged skin contact may defat the skin and produce dermatitis. Possibly Carcinogenic.

**Subchronic toxicity** No information available.

Target Organ Effects Kidney, Liver, Spleen, Adrenal gland, Thymus, Central nervous system.

Neurological effects Inhalation of high vapor concentrations may cause symptoms like headache, dizziness,

tiredness, nausea and vomiting.

Other adverse effects Auditory system: prolonged and repeated exposure to high concentrations have resulted in

hearing losses in rats. Solvent abuse and noise interaction in the work environment may cause hearing loss. This product contains trimethylbenzene. Literature data indicate that long-term inhalation exposure causes blood effects in laboratory animals.

March a fatal if availanced and antere simulation

**Aspiration hazard** May be fatal if swallowed and enters airways.

#### Numerical measures of toxicity - Product Information

**Unknown Acute Toxicity** 2.93 % of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 5236 mg/kg ATEmix (dermal) 2037 mg/kg

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ATEmix (inhalation-vapor) 5.4 mg/l

# 12. ECOLOGICAL INFORMATION

## **Ecotoxicity**

Chronic Aquatic Toxicity: Harmful to aquatic life with long lasting effects.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Hydrotreated Light Petroleum		45: 96 h Pimephales		
Distillates		promelas mg/L LC50		
64742-47-8		flow-through 2.2: 96 h		
		Lepomis macrochirus mg/L		
		LC50 static 2.4: 96 h		
		Oncorhynchus mykiss		
		mg/L LC50 static		
Light Aromatic Solvent Naphtha		9.22: 96 h Oncorhynchus		6.14: 48 h Daphnia magna
64742-95-6		mykiss mg/L LC50		mg/L EC50
1,2,4-Trimethylbenzene		7.19 - 8.28: 96 h		6.14: 48 h Daphnia magna
95-63-6		Pimephales promelas		mg/L EC50
		mg/L LC50 flow-through		
		7.72: 96 h Pimephales		
		promelas mg/L LC50		
_		flow-through		
Cumene	2.6: 72 h	6.04 - 6.61: 96 h		0.6: 48 h Daphnia magna
98-82-8	Pseudokirchneriella	Pimephales promelas		mg/L EC50 7.9 - 14.1: 48 h
	subcapitata mg/L EC50	mg/L LC50 flow-through		Daphnia magna mg/L
		4.8: 96 h Oncorhynchus		EC50 Static
		mykiss mg/L LC50		
		flow-through 2.7: 96 h		
		Oncorhynchus mykiss		
		mg/L LC50 semi-static 5.1:		
		96 h Poecilia reticulata		
		mg/L LC50 semi-static		

## Persistence and degradability

This product contains components which may be persistent in the environment.

## **Bioaccumulation**

Bioaccumulative potential.

## **Mobility**

The product is insoluble and floats on water.

Chemical Name	Partition coefficient
Cumene	3.55
98-82-8	

# 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

**Disposal of wastes** Dispose of in accordance with federal, state and local regulations.

**Contaminated packaging** Do not reuse container. Dispose of in accordance with federal, state and local regulations.

# **14. TRANSPORT INFORMATION**

Limited quantity (LQ) < 5 Liters

DOT

UN/ID No NA1993

Proper Shipping Name: Hazard Class Combustible liquid, n.o.s. (Petroleum Distillates)

COMB. LIQ.

Packing Group: Ш **Emergency Response Guide** 128

Number

<u>IATA</u> Not regulated

<u>IMDG</u> Not regulated

# 15. REGULATORY INFORMATION

## **International Inventories**

## Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

## Federal Regulations

#### **SARA 313**

No SARA 313 chemicals are present above the reporting threshold:

Chemical Name	CAS Number	Weight %	SARA 313 - Threshold Values %
1,2,4-Trimethylbenzene 95-63-6	95-63-6	0.1-0.9	1.0% de minimus concentration
Cumene 98-82-8	98-82-8	0.1-0.3	1.0% de minimus concentration

#### SARA 311/312 Hazard Categories

Acute health hazard Yes
Chronic Health Hazard Yes
Fire hazard Yes
Sudden release of pressure hazard No
Reactive Hazard No

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

#### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Cumene	5000 lb		RQ 5000 lb final RQ
98-82-8			RQ 2270 kg final RQ

## **State Regulations (RTK)**

# **California Proposition 65**

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm:

Chemical Name	CAS Number	California Proposition 65
Cumene	98-82-8	Carcinogen
Naphthalene	91-20-3	Carcinogen
Ethylbenzene	100-41-4	Carcinogen
Benzene	71-43-2	Carcinogen Developmental Male Reproductive
Toluene	108-88-3	Developmental
Furan	110-00-9	Carcinogen
Acetaldehyde	75-07-0	Carcinogen
Propylene oxide	75-56-9	Carcinogen

## U.S. State Right-to-Know Regulations

#### U.S. EPA Label Information

**EPA Pesticide Registration Number** Not applicable

# **16. OTHER INFORMATION**

NFPA Rating
Health hazards 2
Flammability 2
Instability 0
Physical and Chemical Pro

Physical and Chemical Properties -

HMIS Rating
Health hazards 2\*
Flammability 2
Physical hazards 0
Personal protection B

Chronic Hazard Star Legend \*= Chronic Health Hazard

Prepared by Environmental Health and Safety Department

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**Revision Note** 

This data sheet contains changes from the previous version in section(s): 1, 3, 4, 15.

#### **Disclaimer**

The information provided in this Material 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.

**End of Safety Data Sheet**