

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: DIESEL PURGE

Other means of identification

Common Name: 0144

UN/ID No NA1993 (Domestic)

Synonyms None

Product Categories Cleaner, Solvent Based

Recommended use of the chemical and restrictions on use

Sale and Use Restrictions Not applicable

Restricted to professional users. **Recommended Use**

Uses advised against Consumer use

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
Aspiration toxicity	Category 1
Flammable liquids	Category 4

Label elements

Emergency Overview

Danger

Hazard statements

Toxic if inhaled

May cause genetic defects

May be fatal if swallowed and enters airways

Combustible liquid



Appearance Mobile

Physical state Liquid

Odor Ether

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)

Other information

· May be harmful if swallowed

- · May be harmful in contact with skin
- · Causes mild skin irritation
- · Toxic to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Weight %	Trade Secret
Hydrotreated Light Petroleum	64742-47-8	70-85	*
Distillates			
2-Ethylhexyl Nitrate	27247-96-7	5-15	*
2-Butoxyethanol	111-76-2	5-15	*
Glycol Ether PM Acetate	108-65-6	1-5	*
Light Aromatic Solvent Naphtha	64742-95-6	0.25-0.60	*
1,2,4-Trimethylbenzene	95-63-6	0.25-0.60	*

^{*}The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First aid measures

General advice If exposed or concerned: Get medical advice/attention.

Skin contact Wash with plenty of soap and water. Rinse immediately with plenty of water for at least 15

minutes. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. Thoroughly clean shoes before reuse. If a person feels unwell or symptoms of skin

irritation appear, consult a physician.

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 Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Check for and remove any contact lenses. Continue to rinse for at least ten minutes. Seek

immediate medical attention/advice.

Ingestion Call a physician or Poison Control Center immediately. If swallowed, rinse mouth with water

(only if the person is conscious). Do not induce vomiting. If affected person is fully

conscious, give one glass of water to drink. Risk of product entering the lungs on vomiting after ingestion. If vomiting occurs, the head should be kept low so vomit does not enter lungs. If unconscious, place in recovery position and seek medical attention immediately.

Notes to Physician Symptoms of poisoning may not appear for several hours. Keep under medical supervision

for at least 48 hours. Aspiration hazard if swallowed - can enter lungs and cause damage.

Most important symptoms and effects, both acute and delayed

Symptoms Headache, Dizziness, Nausea, Lowered blood pressure.

Indication of any immediate medical attention and special treatment needed

Self-protection of the first aider Avoid breathing vapors or mists. Avoid contact with skin. No action shall be taken involving

any personal risk or without suitable training. If it is suspected that vapors are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it and wear gloves.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Use water spray (fog), foam, dry chemical or CO2, Alcohol-resistant foam.

Small Fire Dry chemical or CO2.

Large Fire Water spray or fog; Alcohol resistant foam.

Explosive properties: When heated above 100°C (212°F) may undergo a self accelerating, exothermic reaction

which causes a rapid rise in temperature and pressure. Rupture of storage vessels and fire

should be anticipated in case of such temperature. May form explosive peroxides.

Specific hazards arising from the chemical

COMBUSTIBLE MATERIAL: Most vapors are heavier than air. Vapors may spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapors may travel to source of ignition and flash back. Flash back possible over considerable distance. Runoff to sewer may create fire or explosion hazard.

Hazardous combustion products Carbon monoxide, Carbon dioxide (CO2), Hydrocarbons, 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:

No action shall be taken involving any personal risk without suitable training. Evacuate surrounding areas. Dike to collect large liquid spills. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Do not use water jet. Move containers from fire area if you can do it without risk. Water mist may be used to cool closed containers. Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Water may cause frothing of heated materials. Spray storage vessels with water to maintain temperatures below 100°C (212°F).

Component ACGIH - test 2-Butoxyethanol 200 111-76-2 (5-15)

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions: Keep people away from and upwind of spill/leak. Use personal protective equipment. See

Section 8 for information on appropriate personal protective equipment.

For emergency responders Use personal protection recommended in Section 8.

Environmental precautions

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

runoff can cause environmental damage.

Methods and material for containment and cleaning up

Methods for Containment Dike far ahead of spill; use dry sand to contain the flow of material. 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: Use only non-sparking tools. Contain and collect

spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to state, local, federal regulations. Clean-up methods - large spillage: Keep unnecessary personnel away. Dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal. Avoid contact of spilled material with soil

and prevent runoff entering surface waterways.

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

7. HANDLING AND STORAGE

Precautions for safe handling

Handling: Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Protect from

physical damage. Do not store at temperatures above 120°F (50°C). Keep containers tightly closed in a cool, well-ventilated place. Keep product and empty container away from heat and sources of ignition. Take precautionary measures against static discharge. Empty containers retain product residue and can be hazardous. Do not reuse empty containers. 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.

Conditions for safe storage, including any incompatibilities

Technical measures/precautions: Use only in area provided with appropriate exhaust ventilation. Eye wash and safety shower

should be easily accessible.

Materials to avoid: Oxidizing agents, Strong reducing agents.

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	-
2-Ethylhexyl Nitrate 27247-96-7	-	Not established	-
2-Butoxyethanol 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m³ TWA: 25 ppm TWA: 120 mg/m³	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m³
Glycol Ether PM Acetate 108-65-6	-	Not established	-
Light Aromatic Solvent Naphtha 64742-95-6	-	TWA: 100 ppm	-
1,2,4-Trimethylbenzene 95-63-6	TWA: 25 ppm	Not established	TWA: 25 ppm TWA: 125 mg/m ³

Appropriate engineering controls

Engineering measures: Provide exhaust ventilation or other engineering controls to keep the airborne

concentrations of vapors below their respective threshold limit values. Eye wash and safety

shower should be easily accessible.

Individual protection measures, such as personal protective equipment

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

Skin and body protectionWear normal work clothing, Chemical resistant gloves. Additional body garments should be

used based on task being performed. Chemical resistant suit, and boots; Face-shield, Chemical resistant apron. (consult with the specific manufacturer to confirm performance).

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

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

eat, drink or smoke. Avoid contact with eyes, skin and clothing. Use personal protective equipment as required. Wash face, hands and any exposed skin thoroughly after handling. Take off contaminated clothing and wash it before reuse. Avoid breathing vapors or mists.

Odor

Odor threshold

Not applicable

Remarks • Method

(based on components)

Ether

2- Ethyl Hexyl Nitrate decomposes on heating

No information available

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid Appearance Mobile

Color Light Straw

 Property
 Values

 pH
 N/A

Melting point/freezing point
Boiling point / boiling range
Flash point
Evaporation rate
Flammability (solid, gas)

No information available
> 100 °C / 212 °F
>= 62 °C / 143 °F
Slower than ether
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 0.82

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 (%)

Contains VOC exempt solvents

Density 0.82 g/cc

Bulk density No Data Available

10. STABILITY AND REACTIVITY

Reactivity

Reactivity Unstable at temperatures >100° C (212° F).

Chemical stability

Stability Decomposition starting from 100 °C.

Possibility of Hazardous Reactions May form explosive peroxides. May react with oxidizing agents.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid

Heat, flames and sparks. Do not allow evaporation to dryness. Do not expose to temperatures above 100 °C.

Incompatible materials

<u>Materials to avoid:</u> Oxidizing agents, Strong reducing agents.

Hazardous Decomposition Products

Revision Date 01-31-2018 0144 DIESEL PURGE <u>Hazardous Decomposition Products</u> Carbon monoxide, Carbon dioxide (CO2), Hydrocarbons, Nitrogen oxides (NOx).

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information Toxic if inhaled. May cause genetic defects. May be fatal if swallowed and enters airways.

Inhalation Toxic if inhaled.

Eye contact Contact with eyes may cause irritation: redness, stinging and tearing.

Skin Contact May be harmful in contact with skin. Overexposure to organic nitrates by inhalation of vapor

or skin contact may cause headache, dizziness, nausea, and decreased blood pressure.

Ingestion Aspiration may cause pulmonary edema and pneumonitis. May be fatal if swallowed and

enters airways. Ingestion may cause gastrointestinal irritation, nausea, vomiting and

diarrhea.

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
2-Ethylhexyl Nitrate 27247-96-7	> 2000 mg/kg (Rat)	> 4820 mg/kg (Rabbit)	> 14 mg/L (Rat) 4 h
2-Butoxyethanol 111-76-2	= 470 mg/kg (Rat)	= 99 mg/kg(Rabbit)	= 450 ppm (Rat) 4 h
Glycol Ether PM Acetate 108-65-6	= 8532 mg/kg(Rat)	> 5 g/kg(Rabbit)	-
Light Aromatic Solvent Naphtha 64742-95-6	-	> 2000 mg/kg (Rabbit)	> 5.2 mg/L (Rat) 4 h, = 3400 ppm (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

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 3: Not Classifiable.

Chemical Name	ACGIH	IARC	NTP	OSHA
2-Butoxyethanol		Group 3		
111-76-2		·		

Reproductive toxicity Product contains a chemical or chemicals which are known or suspected reproductive

hazards. Solvent Naphtha, light aromatic (CAS#64742-95-6): In the presence of slight maternal toxicity, fetotoxic effects have been observed in the offspring of rats exposed by inhalation. 2-Butoxyethanol (CAS#111-76-2): Experiments have shown reproductive toxicity

effects on laboratory animals.

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

Chronic toxicity Acute or chronic exposure to this material (or its components) may cause systemic toxicity,

including adverse effects to the following: kidney, liver, spleen, adrenals, thymus, and

central nervous system.

Target Organ Effects Lungs, Skin, Eyes, Kidney, Liver, Spleen, Blood, Gastrointestinal tract (GI), Cardiovascular

system, Upper respiratory tract, Central nervous system.

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

tiredness, nausea and vomiting.

Other adverse effects This product contains trimethylbenzene. Literature data indicate that long-term inhalation

exposure causes blood effects in laboratory animals.

Aspiration hazard May be fatal if swallowed and enters airways.

Numerical measures of toxicity - Product Information

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

ATEmix (oral) 2628 mg/kg

ATEmix (dermal) 2016 mg/kg
ATEmix (inhalation-dust/mist) 18.8 mg/l
ATEmix (inhalation-vapor) 6 mg/l

12. ECOLOGICAL INFORMATION

This product contains a chemical/chemicals which is/are listed as a marine pollutant(s) according to DOT.

Ecotoxicity

Toxic to aquatic life with long lasting effects.

9.82 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Hydrotreated Light Petroleum		45: 96 h Pimephales	microorganisms	
Distillates		promelas mg/L LC50		
64742-47-8		flow-through 2.2: 96 h		
5 · · · · · · · · · · ·		Lepomis macrochirus mg/L		
		LC50 static 2.4: 96 h		
		Oncorhynchus mykiss		
		mg/L LC50 static		
2-Butoxyethanol		1490: 96 h Lepomis		1000: 48 h Daphnia magna
111-76-2		macrochirus mg/L LC50		mg/L EC50
		static 2950: 96 h Lepomis		
		macrochirus mg/L LC50		
Glycol Ether PM Acetate		161: 96 h Pimephales		500: 48 h Daphnia magna
108-65-6		promelas mg/L LC50 static		mg/L EC50
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		

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
2-Butoxyethanol	0.83
111-76-2	
Glycol Ether PM Acetate	0.43
108-65-6	

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

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

Contaminated packagingDo 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: Combustible liquids, n.o.s. (2-Ethylhexyl Nitrate, Glycol Ether), Marine Pollutant

Hazard Class COMB. LIQ.

Packing Group:

Marine pollutant This product contains a chemical/chemicals which is/are listed as a marine pollutant(s)

according to DOT.

Emergency Response Guide

Number

128

<u>IATA</u>

UN/ID No UN3082

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (2-Ethylhexyl Nitrate, Glycol Ether),

Marine Pollutant

Hazard Class 9
Packing Group: III

IMDG

UN/ID No UN3082

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (2-Ethylhexyl Nitrate, Glycol Ether),

Marine Pollutant

Hazard Class 9
Packing Group: III

Marine pollutant This product contains a chemical which is listed as a marine pollutant according to

IMDG/IMO.

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

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS Number	Weight %	SARA 313 - Threshold Values %
2-Butoxyethanol 111-76-2	111-76-2	5-15	1.0 % de minimis concentration
1,2,4-Trimethylbenzene 95-63-6	95-63-6	0.25-0.60	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 Yes

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, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

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
Naphthalene	91-20-3	Carcinogen
Ethylene glycol	107-21-1	Developmental
Benzene	71-43-2	Carcinogen
		Developmental
		Male Reproductive
Toluene	108-88-3	Developmental
Cumene	98-82-8	Carcinogen
Ethylbenzene	100-41-4	Carcinogen
Benzo[a]pyrene	50-32-8	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 1

Physical and Chemical Properties -

HMIS Rating
Health hazards 2*
Flammability 2
Physical hazards 1
Personal protection B

Chronic Hazard Star Legend *= Chronic Health Hazard

Prepared by Environmental Health and Safety Department

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 01-31-2018

 Revision Date
 01-31-2018

Revision Note

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

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