# BOOSTane® Diesel

SDS Number:

Revision Date: 8/10/2016



## 1 PRODUCT AND COMPANY IDENTIFICATION

### Manufacturer

Intellineering LLC
10981 Harmony Park Drive, Suite 5
Bonita Springs, FL 34135

**Product Name:** BOOSTane® Diesel
**Revision Date:** 8/10/2016
**CAS Number:** Blend

## 2 HAZARDS IDENTIFICATION

### Classification of the Substance or Mixture

**GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):**

Physical, Flammable Liquids, 4
Health, Acute toxicity, 4 Dermal
Health, Acute toxicity, 4 Inhalation
Health, Acute toxicity, 4 Oral
Health, Specific target organ toxicity - Single exposure, 3
Health, Skin corrosion/irritation, 2
Health, Serious Eye Damage/Eye Irritation, 2 A
Health, Aspiration hazard, 1
Health, Carcinogenicity, 2
Environmental, Hazards to the aquatic environment - Chronic, 2

### GHS Label Elements, Including Precautionary Statements

**GHS Signal Word:** DANGER

**GHS Hazard Pictograms:**

**GHS Hazard Statements:**

H227 - Combustible liquid
H312 - Harmful in contact with skin
H332 - Harmful if inhaled
H302 - Harmful if swallowed
H335 - May cause respiratory irritation
H336 - May cause drowsiness or dizziness
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H304 - May be fatal if swallowed and enters airways
H351 - Suspected of causing cancer
H411 - Toxic to aquatic life with long lasting effects

**GHS Precautionary Statements:**

P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
P273 - Avoid release to the environment.
P301+310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P302+352 - IF ON SKIN: Wash with soap and water.
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P308+313 - IF exposed or concerned: Get medical advice/attention.

### Hazards not Otherwise Classified (HNOC) or not Covered by GHS

**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.**

**VAPOR MAY CAUSE FLASH FIRE**

## 3 COMPOSITION/INFORMATION OF INGREDIENTS

**Ingredients:**

| Cas# | % | Chemical Name |
|---|---|---|
| 27247-96-7 | 60-70% | Nitric acid, 2-ethylhexyl ester |
| 64742-94-5 | <10% | Solvent naphtha, petroleum, heavy arom. |
| 64742-95-6 | <5% | Solvent naphtha, petroleum, light arom. |
| 95-63-6 | <3% | 1,2,4-Trimethylbenzene |
| 91-20-3 | <2% | Naphthalene |

## 4 FIRST AID MEASURES

**Inhalation:** If symptoms develop, move victim to fresh air.
If symptoms persist, obtain medical attention.

**Skin Contact:** Wash with soap and water.
Remove contaminated clothing and wash before reuse.
Get medical attention if needed.

**Eye Contact:** Flush with water for several minutes.
If effects occur, consult a physician.

**Ingestion:** Rinse mouth with water and drink 2-4 cups of water.
Get immediate medical attention.

Note to Physician:
Activated charcoal may be administered.

## 5 FIRE FIGHTING MEASURES

**Flash Point:** 62 C (144 F)
**Flash Point Method:** PMCC

Use dry powder, foam, or carbon dioxide fire extinguishers.
Water may be ineffective unless used by experienced fire fighters.

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. Spray storage vessels with water to maintain temperature below 100 C (212 F).

VAPOR MAY CAUSE FLASH FIRE. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

## 6 ACCIDENTAL RELEASE MEASURES

Eliminate sources of ignition - Heat, sparks, flame, and electricity
Contain spilled material.
Collect in suitable and properly labeled containers.
Pick up excess with inert absorbant material
Keep away from drains and ground water.

## 7 HANDLING AND STORAGE

**Handling Precautions:**

Avoid contact with eyes, skin, or clothing.
Keep away from sources of ignition.
Do not pressurize, cut, weld, braze, solder, drill, or grind containers.
Handle with care and avoid spillage on the floor ( slippage).
Ground and bond containers when transferring material

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.

Product transfer:
Do not heat the product. Prior to staring transfer pump, ensure all valves in the product discharge line are open and that the line is unobstructed. Immediately after starting the transfer pump, verify that the product is flowing. If the product is not flowing, shut the pump off immediately. A pneumatic driven diaphragm pump or pumps of other designs equipped with high temperature (75 C) shut off devices are recommended when pumps are provided at fixed locations.

**Storage Requirements:**

Keep away from sources of ignition.
Store in a tightly closed container

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls:**

All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94).

**Personal Protective Equipment:**

Use of safety glasses and gloves is recommended.

Exposure Guidelines

**LIGHT AROMATIC SOLVENT NAPHTHA (PETROLEUM)**
OSHA TWA: 500 ppm
**1,2,4-TRIMETHYLBENZENE**
ACGIH TWA: 25 ppm
**NAPHTHALENE**
OSHA PEL: 10 ppm, 50 mg/m^3
OSHA TWA: 10 ppm, 50 mg/m^3
ACGIH TWA: 10 ppm, 52 mg/m^3
OSHA STEL: 15 ppm, 75 mg/m^3
ACGIH STEL: 15 ppm, 79 mg/m^3

## 9 PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Amber
**Physical State:** Liquid
**Solubility:** Nil in water
**Spec Grav./Density:** 0.9472 at 60 F (Water = 1)
**Bulk Density:** 7.88 lbs/gal at 60 F

## 10 STABILITY AND REACTIVITY

**Chemical Stability:** Unstable at temperatures greater than 100 C (212 F)
**Conditions to Avoid:** High temperatures above 50 C (122 F), sparks, and open flame.
**Materials to Avoid:** Avoid strong oxidizing agents.
May burn or react violently to flourine/oxygen mixtures.

## 11 TOXICOLOGICAL INFORMATION

Repeated skin contact with this product may cause dermatitis or an acne.
No component is listed as a mutagen or teratogen.

**SKIN EFFECTS:**
Solvent Petroleum Naphtha, no deaths reported at 4 ml/kg (Rat). Slightly irritating (rabbit, 4 hour(s)).
2-Ethylhexylnitrate, LD50, >5000 mg/kg in rabbits

**ACUTE ORAL EFFECTS:**
Solvent Petroleum Naphtha, LD50, 10 ml/kg in rats.
2-Ethylhexylnitrate, LD50, >10000 mg/kg in rats

**ACUTE INHALATION EFFECTS:**
Solvent Petroleum Naphtha, no deaths at 710 ppm (v) (Rat) 4 Hour (s).

## 12 ECOLOGICAL INFORMATION

Avoid exposing to the environment.
Toxic to aquatic organisms.
May cause long term adverse effects in the aquatic environment. Based on calculations.
This product contains components which may be persistent in the environment.

## 13 DISPOSAL CONSIDERATIONS

Dispose of waste material in accordance with all local, state/provincial, and national requirements
Do not flush to surface water or drains

## 14 TRANSPORT INFORMATION

NA1993, Combustible liquid, n.o.s., Combustible liquid, PGIII, (Contains 2-Ethylhexylnitrate, Petroleum Naphtha)

This material is not regulated for US DOT transportation in quantities less than 119 Gallons.

This material is a marine pollutant when shipped in quantities greater than 119 gallons.

IMDG: UN1993, Flammable liquid, n.o.s., (Contains 2-Ethylhexylnitrate, Petroleum Naphtha), 3, PGIII, marine pollutant

## 15 REGULATORY INFORMATION

Component (CAS#) [%] - CODES
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Nitric acid, 2-ethylhexyl ester (27247-96-7) [60-70%] TSCA

Solvent naphtha, petroleum, heavy arom. (64742-94-5) [<10%] TSCA

Solvent naphtha, petroleum, light arom. (64742-95-6) [<5%] TSCA

1,2,4-Trimethylbenzene (95-63-6) [<3%] MASS, NJHS, PA, SARA313, TSCA, TXAIR

RQ(100LBS), Naphthalene (91-20-3) [<2%] CERCLA, CSWHS, EPCRAWPC, GADSL, HAP, MASS, NJHS, OSHAWAC, PA, PRIPOL, SARA313, TOXICPOL, TOXICRCRA, TSCA, TXAIR, TXHWL

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Regulatory CODE Descriptions
---------------------------------------------------------------
RQ = Reportable Quantity
TSCA = Toxic Substances Control Act
MASS = MA Massachusetts Hazardous Substances List
NJHS = NJ Right-to-Know Hazardous Substances
PA = PA Right-To-Know List of Hazardous Substances
SARA313 = SARA 313 Title III Toxic Chemicals
TXAIR = TX Air Contaminants with Health Effects Screening Level
CERCLA = Superfund clean up substance
CSWHS = Clean Water Act Hazardous substances
EPCRAWPC = EPCRA Water Priority Chemicals
GADSL = Global Automotive Declarable Substance List (GADSL)
HAP = Hazardous Air Pollutants
OSHAWAC = OSHA Workplace Air Contaminants
PRIPOL = Clean Water Act Priority Pollutants
TOXICPOL = Clean Water Act Toxic Pollutants
TOXICRCRA = RCRA Toxic Hazardous Wastes (U-List)
TXHWL = TX Hazardous Waste List
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## 16 OTHER INFORMATION

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