

TNT 2K

SDS Number: 61850

Revision Date: 12/6/2016

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1 PRODUCT AND COMPANY IDENTIFICATION

Manufacturer

Lubriformance, LLC
2021 Reserve Dr.
Canton, TX 75103

Emergency: 1-800-424-9300 (Chemtrec)
Phone: 1-903-567-7236

Product Name: TNT 2K
Revision Date: 12/6/2016
SDS Number: 61850
CAS Number: Blend
Product Code: 61850
Synonyms: Diesel Fuel Additive

2 HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

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

- Physical, Flammable Liquids, 3
- Health, Skin corrosion/irritation, 2
- Health, Serious Eye Damage/Eye Irritation, 2 B
- Health, Specific target organ toxicity - Single exposure, 3
- Health, Acute toxicity, 4 Dermal
- Health, Acute toxicity, 4 Inhalation
- Health, Acute toxicity, 4 Oral
- Health, Specific target organ toxicity - Repeated exposure, 2
- 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:

- H226 - Flammable liquid and vapor
- H315 - Causes skin irritation
- H320 - Causes eye irritation
- H335 - May cause respiratory irritation
- H336 - May cause drowsiness or dizziness
- H312 - Harmful in contact with skin
- H332 - Harmful if inhaled
- H302 - Harmful if swallowed
- H373 - May cause damage to organs through prolonged or repeated exposure
- H304 - May be fatal if swallowed and enters airways
- H351 - Suspected of causing cancer

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H411 - Toxic to aquatic life with long lasting effects

GHS Precautionary Statements:

- P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking
- P240 - Ground/bond container and receiving equipment.
- 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.
- P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P308+313 - IF exposed or concerned: Get medical advice/attention.

3 COMPOSITION/INFORMATION OF INGREDIENTS

Ingredients:

Chemical Name	Percentage	CAS#
Light aromatic solvent naphtha	25 - 35	64742-95-6
1,2,4-Trimethylbenzene	< 20	95-63-6
2-Ethyhexylnitrate	< 15	27247-96-7
Heavy aromatic solvent naphtha	< 15	64742-94-5
2-Butoxyethanol	< 10	111-76-2
Xylene	< 3	1330-20-7
Naphthalene	< 2	91-20-3

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:** If swallowed, do NOT induce vomiting. Have the victim rinse mouth with water and then drink 2 - 4 cupfuls of water. Get immediate medical attention.

NOTES TO PHYSICIAN:
 Activated charcoal mixture may be administered.

5 FIRE FIGHTING MEASURES

- Flash Point:** 46 C (115 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).

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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.

Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

Decomposition products may include the following material:
Carbon dioxide, Carbon monoxide, Nitrogen oxides

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:

Do not pressurize, cut, weld, braze, solder, drill, or grind container
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 starting 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:

Avoid all possible ignition sources.
Do not heat
Warehouses equipped with fire suppression systems are recommended.
Suppression system should be adequate to keep product cool in the event of a fire.
Keep container in a cool, well ventilated area.
Store in a tightly closed container and sealed until ready for use.

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
2-EthylhexylNitrate
OSHA TWA: 1 ppm, 8 hrs
1,2,4-Trimethylbenzene
ACGIH TWA: 25 ppm
2-Butoxyethanol
OSHA PEL: 25 ppm, 120 mg/m³
OSHA TWA: 25 ppm
ACGIH TWA: 25 ppm

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Xylene

OSHA TWA: 100 ppm, 435 mg/m³
ACGIH TWA: 100 ppm, 434 mg/m³
OSHA STEL: 150 ppm, 655 mg/m³
ACGIH STEL: 150 ppm, 651 mg/m³

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Amber	Odor:	Aromatic solvent
Physical State:	Liquid	Solubility:	Nil in water
Spec Grav./Density:	0.90 at 60F	Freezing/Melting Pt.:	Not available
Viscosity:	Not available	Flash Point:	46 C (115 F)
Boiling Point:	Not available	Vapor Density:	Not available
Flammability:	Not available	Bulk Density:	7.41 lbs/gal at 60F
Partition Coefficient:	Not available	UFL/LFL:	Not available
Vapor Pressure:	Not available		
pH:	Not available		
Evap. Rate:	Not available		
Decomp Temp:	Not available		

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.
Hazardous Decomposition:	Combustion will produce carbon dioxide and, possibly toxic chemicals such as carbon monoxide.

11 TOXICOLOGICAL INFORMATION

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

EYE EFFECTS:

Solvent Petroleum Naphtha slightly irritating in rabbits

SKIN EFFECTS:

Solvent Petroleum Naphtha no deaths reported at 4 ml/kg in rats. Slightly irritating to rabbits at 4 hours.
2-Ethylhexylnitrate LD50 >5000 mg/kg in rabbits

ACUTE ORAL EFFECTS:

Solvent Petroleum Naphtha, LD50, 10 ml/kg in rats.
Naphthalene, Oral LD50, 2600 mg/kg in rats.
2-Butoxyethanol Oral LD50 1.4 g/kg in guinea pigs.
2-Ethylhexylnitrate LD50 >10000 mg/kg in rats

ACUTE INHALATION EFFECTS:

Solvent Petroleum Naphtha, no deaths at 710 ppm in rats at 4 hours.
2-Butoxyethanol LC50 is >633 ppm in guinea pig at 1 hour

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.

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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

UN1993, Flammable liquids, n.o.s., 3, PGIII, (Contains Petroleum Naphtha, 1,2,4-Trimethylbenzene.)(marine pollutant)

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

IMDG & IATA: UN1993, Flammable liquid, n.o.s., (Contains Petroleum Naphtha, 1,2,4-Trimethylbenzene), 3, PGIII. marine pollutant.

15 REGULATORY INFORMATION

Component (CAS#) [%] - CODES

Solvent naphtha, petroleum, light arom. (64742-95-6) [25-35%] TSCA

1,2,4-Trimethylbenzene (95-63-6) [<20%] MASS, NJHS, PA, SARA313, TSCA, TXAIR

Nitric acid, 2-ethylhexyl ester (27247-96-7) [<15%] TSCA

Solvent naphtha, petroleum, heavy arom. (64742-94-5) [<15%] TSCA

2-Butoxyethanol (111-76-2) [<10%] HAP, MASS, OSHAWAC, PA, TSCA, TXAIR

RQ(100LBS), Xylene (1330-20-7) [<3%] CERCLA, CSWHS, EPCRAWPC, HAP, MASS, NJHS, OSHAWAC, PA, SARA313, TOXICRCRA, TSCA, TXAIR, TXHWL

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

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
HAP = Hazardous Air Pollutants
OSHAWAC = OSHA workplace Air Contaminants
CERCLA = Superfund clean up substance
CSWHS = Clean Water Act Hazardous substances
EPCRAWPC = EPCRA Water Priority Chemicals
TOXICRCRA = RCRA Toxic Hazardous wastes (U-List)
TXHWL = TX Hazardous Waste List
GADSL = Global Automotive Declarable Substance List (GADSL)
PRIPOL = Clean Water Act Priority Pollutants

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OTHER INFORMATION

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