



SAFETY DATA SHEET (SDS)

FUELBOOST

1 Manufacturer:

Fuel-Tec Limited, United Kingdom

Product:

Trade Name: Fuel Boost

Application: Fuel Conditioner

2 Composition/ Information on Ingredients:

Ingredients: Processed and structured H₂O /
Isopropanol C₃H₇OH
E133 Apple Green. CAS Registry
Number: 7732-18-5 / 67-63-0 [EC # 200-
661-7] / 1934-21-0 / 3844-45-9

Binding Tariff Information

HS code / TARIC: 3811.90.00.90

3 Hazardous Identification:

Hazardous Rating (HMIS):

Hazard Rating Scale

0 = Minimal 1 = Slight 2 = Moderate 3/4 = Serious;

G = Gloves/Goggles

- Health: 2
- Reactivity: 3
- Flammability: 3
- Protection: 3
- Hazardous Compounds: Isopropanol (CH₃)₂CHOH / CAS 67-63-0
- Environmental Effects: the product may be toxic for aquatic organisms
- Other Effects: (most active component) Acute health, Chronic health / FIRE

Fire and Explosion Hazard:

General Information:

Flash Point (TOC):

Product is combustible (most active component)

32c (89.6 F)

Flammable Limits:

1.1 (lowest component)

Extinguishing Media:

NFPA Class B extinguishers (carbon dioxide or foam) for Class II liquid fires

Special Fire Fighting

Procedures:

Water spray may be ineffective on fire but can protect fire-fighters & cool closed containers. Use fog nozzles if water is used. Do not enter confined fire-space without full bunker gear. (Helmet with face shield, bunker coats, gloves & rubber boots). Use NIOSH approved positive-pressure self-contained breathing apparatus

Unusual Fire and Explosion

Hazards:

Keep container tightly closed. Isolate from oxidizers, heat & open flame. Closed containers may explode if exposed to extreme heat. Applying to hot surfaces requires special precautions. Empty container very hazardous! Continue all label precautions!

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Health Hazard:

Threshold Limit Value (TLV):

Not determined by American Conference of Governmental Industrial Hygienists (ACGIH) ACGIH

VENTILATION

LOCAL EXHAUST:

Necessary

MECHANICAL (GENERAL):

Acceptable

SPECIAL:

None

OTHER:

None

Please refer to ACGIH document, "Industrial Ventilation, A Manual of Recommended Practices", most recent edition, for details regarding Propanol.

Permissible Exposure Limit (PEL)	Not determined by Occupational Safety and Health Administration (OSHA) Superfund Amendments and Reauthorization Act (SARA TITLE III): Isopropyl alcohol <u>is</u> listed as a reportable substance
(RQ) LIMIT:	No reportable quantity
Route of Exposure:	Eye, skin contact, aspiration, ingestion
Health Hazard from Acute/ Chronic Exposure	The components of Fuel Boost with Isopropanol are not listed as carcinogenic by NTP, OSHA, or IARC
Medical Conditions generally recognised as being aggravated by exposure:	None known
5	Emergency and First Aid Procedures: Although Fuel Boost with Isopropanol is not expected to pose any specific health hazard the following precautions are recommended due to possible irritation from the Isopropanol component and <0.1% dye tracer contained in the product. Individual dermal and respiratory sensitivities to Fuel Boost with Isopropanol will vary. Ingestion: Do NOT induce vomiting. Have patient lie down & keep warm. Vomiting may lead to severe damage to oesophagus which may be fatal. Eye Contact: Remove contact lenses at once, flush with water seek the advice of a physician immediately Skin Contact: In case of contact with skin immediately remove contaminated clothing. Wash thoroughly with soap & water. Wash contaminated clothing before reuse Personal Precautions: Take protective measures to avoid eye and skin contact

Environmental Precautions: Flush with water

Methods for Cleaning Up: Wash the area with plenty of water. Mop with absorbent materials and dispose of

Ventilation: Handle product in a normal, well-ventilated area

Inhalation: After high vapour exposure remove to fresh air. If breathing is difficult give oxygen. If breathing has stopped give artificial respiration.

Notes to a Physician: Foresee pre-admission medical exam and also periodic medical exam to the workers exposed to the product.

6 Handling & Storage:

Handling: Staff should be aware a component is hazardous.

Storage: Keep product away from heat, to maintain quality. Store in a cool, dry place. Minimize product exposure to direct sunlight in hot climates. Store product in an area between 4°C (39°F). – 32°C (89.6°F). Store in a tightly sealed container.

7 Exposure Controls/ Personal Protection:

Precautionary Measures: Availability of an eye wash station is recommended

Personal Protective Equipment: When handling the product wear approved protective clothing rubber or PVC gloves and a face shield

Threshold Limit Value: Not established

Requirements for periodic health check: Foresee pre-admission medical exam and periodic medical exam to the workers exposed to the product.

8 Physical & Chemical Properties:

Appearance @ 20°C: Pale green solution, E133 Apple Green

Odour: Citrus with strong alcohol vapour / smell

Concentrate: 100%

For Isopropanol element:

<u>Q</u>	0.786 g/cm ³ (20 °C)
<u>Melting point</u>	-89 °C, 184 K, -128 °F
<u>Boiling point</u>	82.6 °C, 356 K, 181 °F

For processed H₃O₂- element:

Average Molecular Mass: 18 (Processed H₃O₂- element)

Solubility @ 20°C

- Water: Soluble
- Ethanol: Soluble
- Acetone: Soluble
- Aliphatic hydrocarbons: Insoluble

Mass Density @ 25°C: 1

Viscosity @ 20°C:

Melting Range: 0

Boiling Temperature

@ 100kPa: 100°C

Vapour Pressure @ 20°C: 17.5mmHg

Vapour Density (air = 1): N/A

Flash Point (PMcc): N/A

Auto ignition Temperature: N/A

Decomposition Temperature: N/A

pH 1% Water Solution: 5.5 - 7.5

Explosion Properties: N/A

Oxidizing Properties: N/A

Specific Gravity @ 25°C: 1.00

Solubility in Water: Miscible in all Proportions

Percent Volatile: Not Volatile

Evaporation Rate (Ether = 1): Not Established

9 Stability & Reactivity:

Stability: Stable

Conditions to Avoid for

Polymerisation: None

Hazardous Decomposition: Insignificant; mostly moisture, trace amounts

Products: of CO₂ and CO. H₃O₂- element is not an oxygen

	donor. The C_3H_7OH compound <u>may</u> serve as a chemical reagent in itself by acting as a dihydrogen donor in transfer hydrogenation.
Conditions to Avoid:	Excessive heat or freezing
Materials to Avoid:	Strong oxidizing agents
Intended Use & Transformation:	It is not destined to undergo chemical transformation.

10 Toxicological Information:

<u>Possible Routes of Penetration:</u>	<u>H_3O_2- element</u>	<u>C_3H_7OH element</u>
Ingestion:	Not toxic.	Toxic
Eye Contact:	Is not irritant	is an irritant
Skin Contact:	Is not irritant	is an irritant
Sensitization:	Not sensitizing	is sensitizing
Inhalation:	Possible only as aerosol either element may irritate the respiratory passages.	
Symptomology:	Not noted.	

11 Ecological Information:

Environmental Distribution:	Water is likely to be the main transport medium for the chemical, to estimate its possible environmental distribution
Primary Biodegradability:	The product fulfils the requisite minimum requirements of primary biodegradability
Ready Biodegradability:	>99%
A Biotic Degradability:	Not available
Theoretical Oxygen Demand (ThOd): 2.40	
Chemical Oxygen Demand (COD):	Isopropanol (2.22 mg/mg)0

Ecotoxicity:

Bacteria toxicity (EC 50):	Isopropanol (1050 mg/l)
Fish toxicity (LC 50) :	Isopropanol (9280 mg/l)

12 Disposal Considerations:

Dispose of product in authorised places/ methods in observance with current laws

13 Transport Information:

A component of this product is dangerous for road, sea, air & rail transport
namely; Isopropanol

14 Regulatory Information:

Classification & Labelling: (Directive 67/ 548/ EC & following
amendments)

Symbols of Hazard: A component is harmful and dangerous in some
environments

Risk Phrases: harmful if inhaled

Safety Advice: Avoid exposure to skin respiratory tract.
Ventilate well

15 Shipping Classifications:

Shipping Name: Fuel Boost with Isopropanol
Hazard Class: 3
ID Number: P91-396

Highway/Rail: Keep from freezing store between 4°C (39°F). –
32°C (89.6°F). Store in a tightly sealed container

Air/Ship: Keep from freezing store between 4°C (39°F). –
32°C (89.6°F). Store in a tightly sealed container

16 Regulatory Status:

- 16.1 NTP, OSHA & IARC do NOT list product as carcinogenic to humans.
- 16.2 Unused product is NOT listed by EPA as hazardous waste (40CR Part 261)
- 16.3 Fuel Boost with Isopropanol is NOT listed on California's Prop. 65 toxic substance list.
- 16.4 Fuel Boost with Isopropanol does NOT contain lead, cadmium, mercury, hexavalent chromium or has come into contact with these chemicals.
- 16.5 Fuel Boost with Isopropanol does NOT contain and is NOT manufactured with any Class I or II ozone depleting substances.
- 16.6 Fuel Boost with Isopropanol is a combustible liquid.
It is hazardous under OSHA 29 CFR 1910.1200

17 Manufacturer:

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SDS created: July 2026

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