



SAFETY DATA SHEET

FPC International

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name: **Fuel Performance Catalyst (FPC)**

1.2 Relevant identified uses of the substance or mixture and uses advised against

Fuel additive for professional and consumer use

1.3 Details of the supplier of the safety data sheet

FPC International, Inc.
115 North Kenova Road
P.O. Box 705
South Point, OH 45680
Tel: 740-377-9984

Email: Info@fpc1.com

1.4 Emergency telephone number

(800) 424-9300 Chemtrec Account # VHIC

SECTION 2: HAZARDS IDENTIFICATION

2.1

Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin sensitization (Category 1), H317

For the full text of the H-Statements mentioned in this Section, see Section 16



Pictogram

Signal word

Warning

Hazard statement(s)

H317

May cause an allergic skin reaction.

Precautionary statement(s)

P261

Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P272

Contaminated work clothing should not be allowed out of the workplace.

P280

Wear protective gloves.

P302 + P352

IF ON SKIN: Wash with plenty of soap and water.

P321

Specific treatment (see supplemental first aid instructions on this label).

P333 + P313

If skin irritation or rash occurs: Get medical advice/ attention.

P363

Wash contaminated clothing before reuse.

P501

Dispose of contents/ container to an approved waste disposal plant.



SECTION 3: COMPOSITION

3.1 Substances

Not applicable, the product is a mixture.

3.2 Mixtures

Chemical Name	CAS-No.	EC-No.	Index No.	Conc (%wt.)	67/548/EEC Classification	CLP Classification
Hydrocarbons, C10-C13, aromatics	64742-94-5	922-153-0	-	83 - 87	R52/53, Xn R65	Asp. Tox. 1 H304, Aquatic chronic 3 H412
Octan-1-ol	111-87-5	203-917-6	-	3.0	Xi R36. R52	Eye Irrit. 2 H319 Aquatic chronic 3 H412
2,4,6trinitrophenol (Picric acid)	88-89-1	201-865-9	609-009-00X	< 1.2	E R3, R4, T R23/24/25	Expl 1.1 H201, Acute Tox 3 H301 Acute Tox 3 H311 Acute Tox 3 H331

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

EYE CONTACT: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do

so. Continue Rinsing. If signs of irritation persist, seek medical attention.

INHALATION: No hazard associated with inhalation of vapors, but if signs of discomfort, seek medical advice

SKIN CONTACT: Wash with plenty of soap and water. If discomfort, seek medical attention.

INGESTION: Rinse mouth with water and drink cup of water. Do not induce vomiting. Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

INGESTION: Risk of aspiration hazard with entry of chemical into lungs. This may cause permanent lung damage. **INHALATION:** Possible irritation respiratory system if spray or vapor inhaled. May cause light-headed or dizziness feeling. **EYES:** Discomfort and irritation **SKIN:** Not expected to lead to any specific symptom

4.3 Indication of any immediate medical attention and special treatments needed

Treat for low-viscosity hydrocarbon contamination (eg petrol)



SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Products not classified as flammable but will support combustion do not use water. Chemical foam recommended.

5.2 Special hazards arising from the substance or mixture

Carbon oxides, nitrogen oxides (NO_x)

5.3 Advice for fire fighters

Treat as for petroleum products such as kerosene.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For spillage of bulk material or large quantities > 1 gallon, coveralls, gloves resistant to petroleum products eye protection required. For minor spills, gloves resistant to petroleum products recommended

6.2 Environmental precautions

Prevent run-off to surface water or drains.

6.3 Methods and materials for containment and clearing up

SMALL SPILLS (under 1 gallon): Absorb onto cloth or mop and place contaminated materials in a suitable container for disposal. Wash area with water and if no risk for environmental contamination, use detergents. LARGE SPILLS: (more than 1 gallon): Use absorbent materials suitable for petroleum products and place in suitable container for disposal as chemical waste. Coveralls, gloves resistant to petroleum products and eye protection required.

6.4 References to other sections

See section 8 for further advice on protective equipment and section 13 for further advice on disposal.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Do not allow this material to come in contact with eyes. Avoid contact with skin. Follow instructions for use

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed when not in use. Keep out of reach of children. Recommended to store in a cool / dry area.

7.3 Specific end uses(s)

Use only as directed. Read instructions carefully before use.



SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

No specific exposure limits in the USA.

Derived No Effect Levels (DNEL)

DNELs have been estimated for the registered components

Hydrocarbons, C10-C13, aromatics

Workers, hazard via inhalation route, long term chronic: 151 mg/m³

Workers, hazard via dermal route, long term chronic: 12.5 mg/kg/day

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Personal protective equipment

Eyeface protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact

Material: Nitrile rubber

Minimum layer thickness:0.11 mm

Break through time: 480 min

Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness:0.11 mm

Break through time: 480 min

Material tested:Dermatril®(KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.



Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirators the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: Emerald Green Liquid

Odor: Kerosene / petroleum

Odor threshold: No data

pH: Not applicable – non aqueous

Melting point: Liquid < 0°C

Boiling point: 147°C

Flashpoint: 69°C

Evaporation rate: As kerosene

Flammability (solid, gas): No flammable components

Upper/lower flammability limits: No data

Vapor pressure: 3.9 KPa

Vapor density 3.84

Relative density 0.86 at 15°C

Solubility in water: Sparingly soluble in water; as for petroleum solvents

Solubility in other solvents: Components soluble in non-polar solvents

Partition coefficient (log Kow) Mixture Components are miscible in octanol

Autoignition temperature > 400°C for base solvent

Decomposition temperature > 100°C

Viscosity 4.25 mm²/sec at 20°C using ASTM D7042 method

Explosive properties Not classified as explosive

Oxidizing properties Not classified as oxidizing

9.2 Other information

None

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Not known to be dangerously reactive.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No known hazardous reactions. Picric acid present at low concentrations.



10.4 Conditions to avoid

Avoid high temperatures > 60°C

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

Incomplete combustion may release carbon monoxide

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

This product has not been tested. Judgments on the expected toxicity of this product have been made based upon consideration of its major components and dilution factors

- | | |
|---|---|
| (a) Acute toxicity | Mixture estimated to be of low acute toxicity by oral or dermal route. Low viscosity hydrocarbon considered to be aspiration hazard, causing lung damage if liquid enters respiratory tract |
| (b) Skin corrosion/irritation | Mixture estimated to be of low irritancy to skin. Not classified |
| (c) Serious eye damage/irritation | Mixture estimated to be of low irritancy to eyes. Not classified |
| (d) respiratory/skin sensitization | No known potential skin sensitizer in the mixture |
| (e) Germ cell mutagenicity | None of the components are known to be mutagens. |
| (f) Carcinogenicity | None of the components are classified as a carcinogen by IARC or U.S. ACGIH, NTP or OSHA. The base hydrocarbon is low in benzene and naphthalene |
| (g) Reproductive toxicity | This product does not contain known reproductive or developmental toxins. |
| (h) STOT-single exposure | None of the components are considered hazardous to organs at concentrations present in the mixture. |
| (i) STOT-repeated exposure | None of the components are considered hazardous to organs at concentrations present in the mixture. . |
| (j) Aspiration hazard | Contains hydrocarbons. Main solvent is classified as Aspiration Toxic 1 |

Additional Information

RTECS: Not available

Discoloration of the skin. Picric acid dust causes sensitization dermatitis. This usually occurs on the face, especially around the mouth and the sides of the nose; the condition progresses from edema, through the formation of papules and vesicles, to ultimate desquamation. Inhalation of high concentrations of dust has caused unconsciousness, weakness, muscle pain, and kidney problems. Swallowing picric acid may cause a bitter taste, headache, dizziness, nausea, vomiting, and diarrhea. High doses may cause destruction of the red blood cells and damage to the kidneys and liver with blood in the urine.

Stomach-Irregularities-Based on Human Evidence

Stomach-Irregularities-Based on Human Evidence(Picric Acid)



SECTION 12: ECOLOGICAL INFORMATION

This product has not been tested. Judgments on the expected toxicity of this product have been made based upon consideration of its major components and dilution factors

12.1 Toxicity

None of the components are considered to be acutely toxic to aquatic organisms at within limitations of water solubility Fish toxicity by Water Accommodated Fraction for hydrocarbon solvent 3.6 mg/l. Components considered to be harmful to aquatic organisms over longer periods of exposure. Sewage sludge inhibition not expected at the concentrations present from normal use

12.2 Persistence and degradability

Main base oil biodegradable > 60% over 28 days, but failing 10-day window other components considered ultimately biodegradable

12.3 Bioaccumulative potential

Components present considered to be potentially bioaccumulative in view of degradability.

12.4 Mobility in soil

No soluble in water. Poorly mobile in soil

12.5 Results of PBT and vPvB assessment

None of the components have a potential to bioaccumulate or to persist.

12.6 Other adverse effects

None known

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.



SECTION 14: TRANSPORT INFORMATION

Not classified as dangerous goods. Labelling for transport is not required

	ADR (Road)	IMDG (Marine)	ICAO (Air)
14.1 UN Number	Not classified	Not classified	Not classified
14.2 UN Proper shipping name	Not classified	Not classified	Not classified
14.3 Transport hazard class(es)	Not classified	Not classified	Not classified
14.4 Packing group	Not classified	Not classified	
14.5 Environmental hazards	Not applicable	Not applicable	Not applicable
14.6 Special precautions for user	Not applicable	Not applicable	Not applicable
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable	Not applicable	Not applicable

SECTION 15: REGULATORY INFORMATION

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Picric Acid	88-89-1	2007-07-01

SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Picric Acid	88-89-1	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Picric Acid	88-89-1	2007-07-01
Water	7732-18-5	

New Jersey Right To Know Components

	CAS-No.	Revision Date
Picric Acid	88-89-1	2007-07-01
Water	7732-18-5	

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.



SECTION 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Expl.	Explosives
H201	Explosive; mass explosion hazard.
H301 + H311 + H331	Toxic if swallowed, in contact with skin or if inhaled
H317	May cause an allergic skin reaction. Skin Sens. Skin sensitisation

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard:	0

NFPA Rating

Health hazard:	2
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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