

## \* SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product Identifier:

Trade name: **alpha FUEL INJECTOR CLEANER**

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

Product category: PC0 Other

Application of the substance / the mixture: Fuel Additive.

### 1.3 Details of the supplier of the safety data sheet:

Manufacturer / Importer / Supplier:

Gulf Western Asia PTE Ltd

105 Cecil Street, #24-02 The Octagon, Postal 069534 Singapore

Further information obtainable from: Product safety department.

### 1.4 Emergency telephone number:

+65 90302232

This telephone number can be reached during office hours.

## \* SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008:



GHS08 health hazard

Asp..Tox. 1. . . . H304 May be fatal if swallowed and enters airways. . . . .

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

### 2.2 Label elements:

Labelling according to Regulation (EC) No 1272/2008: The product is classified and labelled according to the CLP regulation.

Hazard pictograms: GHS08

Signal word: Danger

### Hazard-determining components of labelling:

Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, < 2% aromates

### Hazard statements:

H304 May be fatal if swallowed and enters airways.

H412 Harmful to aquatic life with long lasting effects.

### Precautionary statements:

P102 Keep out of reach of children.

P260 Do not breathe mist/vapours/spray.

P262 Do not get in eyes, on skin, or on clothing.

P273 Avoid release to the environment.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P331 Do NOT induce vomiting.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

### Additional information:

Note P

The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1% w/w benzene (EINECS No 200-753-7). When the substance is not classified as a carcinogen at least the precautionary statements (P102) P260-P262-P301+P310+p331 shall apply. This note applies only to certain complex oil-derived substances in Part 3. EUH066 Repeated exposure may cause skin dryness or cracking.

### Labelling of packages where the contents do not exceed 125 ml:

Hazard pictograms: GHS08

Signal word: Danger

### Hazard-determining components of labelling:

Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, < 2% aromates

### Hazard statements:

H304 May be fatal if swallowed and enters airways.

H412 Harmful to aquatic life with long lasting effects.

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**Precautionary statements:**

P102 Keep out of reach of children.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P331 Do NOT induce vomiting.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**2.3 Other hazards:**
**Results of PBT and vPvB assessment:**
**PBT:** Not applicable.

**vPvB:** Not applicable.

**SECTION 3: Composition/information on ingredients**
**3.2 Chemical characterisation: Mixtures:**
**Description:** Mixture of substances listed below, possibly with non-hazardous additions.

<b>Components:</b>		
EC number: 918-481-9 Reg.nr.: 01-2119457273-39	Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, < 2% aromates ⚠ Asp. Tox. 1, H304	50-100%
EC number: 919-284-0 Reg.nr.: 01-2119463588-24	Hydrocarbons, C10, aromatics, >1% naphthalene ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ STOT SE 3, H336	2.5-10%
Polymer Reg.nr.: Conf0621	Polyolefin alkyl phenol alkyl amine ⚠ Skin Irrit. 2, H315	≤2.5%
CAS: 91-20-3 EINECS: 202-049-5 Index number: 601-052-00-2 Reg.nr.: Compliant	naphthalene ⚠ Carc. 2, H351; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302	<1%

**Additional information:** For the wording of the listed hazard phrases See section 16.

**SECTION 4: First aid measures**
**4.1 Description of first aid measures:**
**General information:**

Persons, providing assistance, should avoid exposure and danger for themselves or others.

Take affected persons out of danger area and lay down.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

**After inhalation:**

Supply fresh air; consult doctor in case of complaints.

In case of unconsciousness place patient stably in side position for transportation.

**After skin contact:**

Take off contaminated clothing immediately and wash the skin with plenty of water (possibly showering).

Do NOT use solvents or thinners.

**After eye contact:**

Rinse opened eye for several minutes (at least 15 minutes) under running water. If symptoms persist, consult a doctor.

**After ingestion:** Do not induce vomiting; call for medical help immediately.

**4.2 Most important symptoms and effects, both acute and delayed:** No further relevant information available.

**4.3 Indication of any immediate medical attention and special treatment needed:**

After ingestion of the liquid, droplets of the product may enter the lungs (aspiration), whereby pneumonia can occur.

**SECTION 5: Firefighting measures**
**5.1 Extinguishing media:**
**Suitable extinguishing agents:** CO2, powder, foam or water spray. Fight larger fires with water spray or alcohol resistant foam.

**For safety reasons unsuitable extinguishing agents:** Water with full jet

**5.2 Special hazards arising from the substance or mixture:**

Carbon monoxide (CO)

Carbon dioxide (CO2)

Keep dust/vapour clouds away from possible ignition points.

**5.3 Advice for firefighters:**
**Protective equipment:** Wear self-contained respiratory protective device.

**Additional information:** Cool endangered tanks with water spray.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Keep unprotected persons away.

Keep away from ignition sources.

Avoid breathing vapor and contact with eyes, skin and clothing.

### 6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

### 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

### 6.4 Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

### Information about fire and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Observe the general rules for fire prevention.

### 7.2 Conditions for safe storage, including any incompatibilities: Storage must comply with the local regulations.

#### Storage:

#### Requirements to be met by storerooms and tanks:

Store only in the original receptacle.

Keep in a cool, dry place, protected from direct sunlight.

All hazardous products must be placed above a sump pallet.

**Information about storage in one common storage facility:** Store away from oxidising agents.

#### Further information about storage conditions:

Protect from heat and direct sunlight.

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

### 7.3 Specific end use(s): No further relevant information available.

## SECTION 8: Exposure controls/personal protection

**Additional information about design of technical facilities:** No further data; see section 7.

### 8.1 Control parameters:

Ingredients with limit values that require monitoring at the workplace:		
91-20-3 naphthalene		
IOELV (EU)	Long-term value: 30 mg/m³, 10 ppm	
DNELs		
91-20-3 naphthalene		
Dermal	Long-term - systemic effects	3.57 mg/kg bw/day (Worker)
Inhalative	Long-term - local effects	25 mg/m3 (Worker)
	Long-term - systemic effects	25 mg/m3 (Worker)
PNECs		
91-20-3 naphthalene		
Fresh water	0.0024 mg/l	
Marine water	0.00024 mg/l	

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STP	2.9 mg/l
Fresh water sediment	0.0672 mg/kg
Marine sediment	0.0672 mg/kg
Soil	0.0533 mg/kg

**Additional information:** The lists valid during the making were used as basis.

**8.2 Exposure controls**
**Personal protective equipment:**
**General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Do not eat, drink, smoke or sniff while working.

**Respiratory protection:**

Not required.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

**Protection of hands:**


Protective gloves

Only use chemical-protective gloves with CE-labelling of category III.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

**Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Gloves Neo-Nitrile™ 300 – AQL or 0.65 (level 3). Thickness-0.35 mm.

Gloves made of Nitrile rubber, NBR

**Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:** Goggles recommended during refilling

**Body protection:** Anti-static clothing

**Limitation and supervision of exposure into the environment:** Prevent spills from reaching surface waters or soil.

**SECTION 9: Physical and chemical properties**
**9.1 Information on basic physical and chemical properties:**
**General Information:**
**Appearance:**

Form:	Liquid.
Colour:	Transparent
Odour:	Characteristic
Odour threshold:	Not determined.

**pH-value:** Not determined.

**Change in condition**

Melting point/freezing point:	Not determined.
Initial boiling point and boiling range:	160 °C

**Flash point:** 62 °C

**Flammability (solid, gas):** Not applicable.

**Ignition temperature:** > 200 °C

**Decomposition temperature:** Not determined.

**Auto-ignition temperature:** Product is not self-igniting.

**Explosive properties:** Product does not present an explosion hazard.

**Explosion limits:**

Lower:	0.6 Vol %
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<b>Upper:</b>	7.0 Vol %
<b>Vapour pressure at 20 °C:</b>	1 hPa
<b>Density at 20 °C:</b>	0.80 g/cm <sup>3</sup>
<b>Relative density:</b>	Not determined.
<b>Vapour density:</b>	Not determined.
<b>Evaporation rate:</b>	Not determined.
<b>Solubility in / Miscibility with:</b>	
<b>Water:</b>	Insoluble.
<b>Partition coefficient: n-octanol/water:</b>	Not determined.
<b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic at 40 °C:</b>	7 mm <sup>2</sup> /s
<b>Solvent content:</b>	
<b>VOC (EU, 1993/13/EC):</b>	5.38 %
<b>VOC (USA, EPA Method 24)</b>	5.38 %
<b>VOCV-content (Swiss)</b>	4.95 %
<b>Oxidizing properties:</b>	Does not contain oxidizing properties.
<b>9.2 Other information:</b>	No further relevant information available.

## SECTION 10: Stability and reactivity

**10.1 Reactivity:** Reacts violently with oxidizing agents, strong acids and strong bases.

**10.2 Chemical stability:**

**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

**10.3 Possibility of hazardous reactions:** No dangerous reactions known.

**10.4 Conditions to avoid:**

Direct sunlight

Heat

Sparks-Open fire

**10.5 Incompatible materials:** Oxidising Agents

**10.6 Hazardous decomposition products:** Carbon monoxide and carbon dioxide

## \* SECTION 11: Toxicological information

**11.1 Information on toxicological effects:**

**Acute toxicity:** Based on available data, the classification criteria are not met.

**LD/LC50 values relevant for classification:**

**Hydrocarbons, C10, aromatics, >1% naphthalene**

Oral	LD50	>5,000 mg/kg (Rat)
Dermal	LD50	>2,000 mg/kg (Rabbit)

**64742-95-6 Solvent naphtha (petroleum), light arom.**

Oral	LD50	>6,800 mg/kg (Rat)
Dermal	LD50	>3,400 mg/kg (Rabbit)
Inhalative	LC50/4 h	>10.2 mg/l (Rat)

**91-20-3 naphthalene**

Oral	LD50	490 mg/kg (Rat)
Dermal	LD50	5,000 mg/kg (Rat)
Inhalative	LC50/4 h	>100 mg/l (Rat)

**Primary irritant effect:**

**Skin corrosion/irritation:** Based on available data, the classification criteria are not met.

**Serious eye damage/irritation:** Based on available data, the classification criteria are not met.

**Respiratory or skin sensitization:** Based on available data, the classification criteria are not met.

**CMR effects (carcinogenic, mutagenic and reprotoxic):**

**Germ cell mutagenicity:** Based on available data, the classification criteria are not met.

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**Carcinogenicity:** Based on available data, the classification criteria are not met.  
**Reprotoxicity:** Based on available data, the classification criteria are not met.  
**STOT-single exposure:** Based on available data, the classification criteria are not met.  
**STOT-repeated exposure:** Based on available data, the classification criteria are not met.  
**Aspiration hazard:**  
 May be fatal if swallowed and enters airways.

## \* SECTION 12: Ecological information

### 12.1 Toxicity:

#### Aquatic toxicity:

#### Hydrocarbons, C10, aromatics, >1% naphthalene

NOEC / 7d	1 mg/l (Algae)
EC50/48h	3-10 mg/l (Daphnia Magna)
EC50/72h	1-3 mg/l (Algae)

#### 91-20-3 naphthalene

LC50/96h	0.5 mg/l (Fish)
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**12.2 Persistence and degradability:** No further relevant information available.

**12.3 Bioaccumulative potential:** No further relevant information available.

**12.4 Mobility in soil:** No further relevant information available.

#### Ecotoxicological effects:

**Remark:** Harmful to fish

#### Additional ecological information:

##### General notes:

Harmful to aquatic organisms

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

#### 12.5 Results of PBT and vPvB assessment:

**PBT:** Not applicable.

**vPvB:** Not applicable.

**12.6 Other adverse effects:** No further relevant information available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods:

**Recommendation:** Must not be disposed together with household garbage. Do not allow product to reach sewage system.

#### Contaminated packaging:

**Recommendation:** Disposal must be made according to official regulations.

## SECTION 14: Transport information

### 14.1 UN-Number:

ADR/RID/ADN, IMDG, IATA Void

### 14.2 UN proper shipping name:

ADR/RID/ADN, IMDG, IATA Void

### 14.3 Transport hazard class(es):

ADR/RID/ADN, IMDG, IATA  
Class: Void

### 14.4 Packing group:

ADR/RID/ADN, IMDG, IATA Void

### 14.5 Environmental hazards:

Marine pollutant: No

### 14.6 Special precautions for user:

Not applicable.

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:

Not applicable.

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UN "Model Regulation":

Void

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

**Directive 2012/18/EU:**

**Named dangerous substances - ANNEX I:** None of the ingredients are listed.

**REGULATION (EC) No 1907/2006 ANNEX XVII:** Conditions of restriction: 3

**DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other information

This information is based on our present knowledge. This shall not constitute a guarantee for any properties of the product and shall not establish a legally valid contractual relationship.

### Relevant phrases:

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H351 Suspected of causing cancer.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

**Training hints:** Take care of good information, instruction and training for users.

**Department issuing SDS:** Environment protection department.

### Abbreviations and acronyms:

ADN: Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (Division of the American Chemical Society)

VOCV: Lenkungsabgabe auf flüchtigen organischen Verbindungen, Schweiz (Swiss Ordinance on volatile organic compounds)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

EC50: Effective Concentration, 50 percent

IOELVS: Indicative Occupational Exposure Limit Values

mPa.s: milliPascal per second

Acute Tox. 4: Acute toxicity - oral – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Carc. 2: Carcinogenicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

### References:

This information is based on the current available data (suppliers of raw materials, chemistry maps, Annex VI)

See also the internet site: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

**Revisions were made in sections marked with \*.**