

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 22.01.2016

Version number 1

Revision: 22.01.2016

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

- **1.1 Product identifier**
- **Trade name: 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:**
Technical Lubricants International BV
Molenwerf 56
1911 DB Uitgeest
Tel.: +31 (0)251 228957
Fax.: +31 (0)251 213061
Email: info@teclub.nl
www.teclub.com
- **Further information obtainable from:** Product safety department.
- **1.4 Emergency telephone number:**
Tel.: +31 (0) 251 228957
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**



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS08 health hazard

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



GHS07

STOT SE 3 H336 May cause drowsiness or dizziness.

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** GHS02, GHS07, GHS08
- **Signal word** Danger
- **Hazard-determining components of labelling:**
Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclic, < 2% aromates
- **Hazard statements**
H226 Flammable liquid and vapour.
H336 May cause drowsiness or dizziness.
H304 May be fatal if swallowed and enters airways.
H412 Harmful to aquatic life with long lasting effects.
- **Precautionary statements**
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P331 Do NOT induce vomiting.
P405 Store locked up.
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.

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SECTION 3: Composition/information on ingredients

• **3.2 Chemical characterisation: Mixtures**

• **Description:** Mixture of substances listed below with nonhazardous additions.

• **Dangerous components:**

EC number: 919-857-5 Reg.nr.: 01-2119463258-33	Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclic, < 2% aromates ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ STOT SE 3, H336	50-100%
CAS: 64742-94-5 EINECS: 265-198-5 Index number: 649-424-00-3 Reg.nr.: 01-2119451097-39	Solvent naphtha, heavy arom. ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ STOT SE 3, H336	≤ 2,5%
CAS: 91-20-3 EINECS: 202-049-5 Index number: 601-052-00-2	naphthalene ⚠ Carc. 2, H351; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302	< 1.0%

• **Additional information:** For the wording of the listed hazard phrases refer to 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.

Immediately remove any clothing soiled by the product.

Take affected persons out of danger area and lay down.

• **After inhalation:** Supply fresh air; consult doctor in case of complaints.

• **After skin contact:**

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

Do NOT use solvents or thinners.

Wash with polyethylene glycol and ethanol (2:1). Then wash thoroughly with water and soap.

• **After eye contact:**

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

• **After swallowing:** If symptoms persist consult doctor.

• **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:** Use fire extinguishing methods suitable to surrounding conditions.

• **For safety reasons unsuitable extinguishing agents:**

Water with full jet

Water spray

• **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 receptacles with water spray.

SECTION 6: Accidental release measures

• **6.1 Personal precautions, protective equipment and emergency procedures**

Keep away from ignition sources.

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

Wear protective equipment. Keep unprotected persons away.

• **6.2 Environmental precautions:**

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

Prevent seepage into sewage system, workpits and cellars.

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 item 13.

Ensure adequate ventilation.

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- **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** No special precautions are necessary if used correctly.
- **Information about fire - and explosion protection:**
Observe the general rules for fire prevention.
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- **7.2 Conditions for safe storage, including any incompatibilities**
Storage must comply with the local regulations, such as PGS15 (NL), Vlare m I (B), TGS510 (D).
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store only in the original receptacle.
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:** Keep container tightly sealed.
- **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 item 7.
- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Do not eat, drink, smoke or sniff while working.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
- **Respiratory protection:** Not required.
- **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**
Gloves Neo-Nitrile™ 300 – AQL or 0.65 (level 3). Thickness-0.35 mm.
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.
Nitrile rubber, NBR
- **Penetration time of glove material**
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **For the permanent contact gloves made of the following materials are suitable:** PVA gloves
- **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**
Fluorocarbon rubber (Viton)
- **Eye protection:**



Tightly sealed goggles

- **Body protection:** Anti-static clothing
- **Limitation and supervision of exposure into the environment** Prevent spills to reach surface waters or soil.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form: Liquid
 Colour: According to product specification

Odour: Characteristic
 Odour threshold: Not determined.

pH-value: Not determined.

Change in condition

Melting point/Melting range: Not determined.
 Boiling point/Boiling range: 150 - 205 °C

Flash point: >41 °C

Flammability (solid, gaseous): Not applicable.

Ignition temperature: >200 °C

Decomposition temperature: Not determined.

Danger of explosion: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

Explosion limits:

Lower: 0,6 Vol %
 Upper: 7 Vol %

Vapour pressure at 20 °C: 300 Pa

Density at 20 °C: 0,748 g/cm³

Relative density: Not determined.

Vapour density at 20 °C: 4.8 g/cm³ (Air = 1)

Evaporation rate at 20 °C: 65-115 (EtEt =1)

Solubility in / Miscibility with water: Fully miscible.

Partition coefficient (n-octanol/water): 5 - 6.7 log POW

Viscosity:

Dynamic: Not determined.
 Kinematic at 25 °C: 1.48 mm²/s

Solvent content:

Organic solvents: 2,8 %

Solids content: 0,2 %

Oxidizing properties: Does not contain oxidizing properties.

9.2 Other information: 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:

ATE (Acute Toxicity Estimates)

Oral	LD50	302 mg/kg (Rat)
Dermal	LD50	121 mg/kg (Rabbit)

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64742-94-5 Solvent naphtha, heavy arom.		
Oral	LD50	5 mg/kg (Rat)
Dermal	LD50	2 mg/kg (Rabbit)
Inhalative	LD50 /1h	590 mg/l (Rat)
91-20-3 naphthalene		
Oral	LD50	490 mg/kg (Rat)
Dermal	LD50	5000 mg/kg (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 sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure**
May cause drowsiness or dizziness.
- **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**
The product components are not classified as dangerous for the environment. However large or frequent spills can have a danger or harm to the environment.

- **Aquatic toxicity:**

64742-94-5 Solvent naphtha, heavy arom.	
LL50/96h	677.9 mg/l (Bateria) 2 mg/l (oncorhynchus mykiss)
EL50/48H	3 mg/l (Daphnia Magna)

- **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:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Harmful to aquatic organisms
- **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.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- **14.1 UN-Number**
- **ADR,RID,ADN, IMDG, IATA** UN1268
- **14.2 UN proper shipping name**
- **ADR/RID/ADN** 1268 PETROLEUM DISTILLATES, N.O.S., special provision 640D
- **IMDG** PETROLEUM DISTILLATES, N.O.S.
- **IATA** Petroleum distillates, n.o.s.

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14.3 Transport hazard class(es)
ADR/RID/ADN


- **Class** 3 (F1) Flammable liquids.
- **Label** 3

IMDG, IATA


- **Class** 3 Flammable liquids.
- **Label** 3
- **14.4 Packing group**
- **ADR,RID,ADN, IMDG, IATA** II
- **14.5 Environmental hazards:**
- **Marine pollutant:** No
- **14.6 Special precautions for user** Warning: Flammable liquids.
- **Danger code (Kemler):** 3
- **EMS Number:** F-E,S-E
- **Stowage Category** B
- **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.
- **Transport/Additional information:**
- **ADR/RID/ADN**
- **Limited quantities (LQ)** 1L
- **Excepted quantities (EQ)** Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml
- **Transport category** 2
- **Tunnel restriction code** D/E
- **IMDG**
- **Limited quantities (LQ)** 100 ml
- **Excepted quantities (EQ)** Code: E4
Maximum net quantity per inner packaging: 1 ml
Maximum net quantity per outer packaging: 500 ml
- **UN "Model Regulation":** UN 1268 PETROLEUM DISTILLATES, N.O.S., SPECIAL PROVISION 640D, 3, II

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 is listed.
- **Seveso category P5c** FLAMMABLE LIQUIDS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t
- **National regulations:**
- **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **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. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**
H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.

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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 MSDS:** Environment protection department.

- **Abbreviations and acronyms:**

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

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 3: Flammable liquids, Hazard Category 3

Acute Tox. 4: Acute toxicity, Hazard Category 4

Carc. 2: Carcinogenicity, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

Asp. Tox. 1: Aspiration hazard, Hazard Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - Acute Hazard, Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

- **Sources**

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>

- *** Data compared to the previous version altered.**

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