



# MPEX<sup>®</sup> Diesel Stop Smoke

## Material Safety Data Sheet

Page 1 of 15  
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
Revised on / Version: 10.01.2014 / 0003  
Replaces revision of / Version: 18.10.2013 / 0002  
Valid from: 10.01.2014  
PDF print date: 18.02.2014  
MPEX<sup>®</sup> DIESEL STOP SMOKE (51081)

### Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

##### 1.1 Product identifier

**MPEX<sup>®</sup> DIESEL STOP SMOKE (51081)**

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

**Relevant identified uses of the substance or mixture:**

Fuel additive

**Uses advised against:**

No information available at present.

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

Leading Solvent Supplies Ltd, Marston Business Park, Rudgegate, Tockwith, YO26 7QF United Kingdom  
Telephone: ++44 (0)1423 358000, Fax: ++44 (0)1423 222012  
[www.mpexdirect.com](http://www.mpexdirect.com)

Qualified person's e-mail address: [sales@mpexdirect.com](mailto:sales@mpexdirect.com) Please DO NOT use for requesting Safety Data Sheets.

##### 1.4 Emergency telephone

**Emergency information services / official advisory body:**

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**Telephone number of the company in case of emergencies:**

Tel.: ++44 (0)1423 358000 (9.00 - 17.00h)

#### SECTION 2: Hazards identification

##### 2.1 Classification of the substance or mixture

###### 2.1.1 Classification according to Regulation (EC) 1272/2008 (CLP)

| Hazard class    | Hazard category | Hazard statement  |
|-----------------|-----------------|---|
| Flam. Liq.      | 3               | H226-Flammable liquid and vapour.                       |
| Asp. Tox.       | 1               | H304-May be fatal if swallowed and enters airways.      |
| Aquatic Chronic | 3               | H412-Harmful to aquatic life with long lasting effects. |

###### 2.1.2 Classification according to Directives 67/548/EEC and 1999/45/EC (including amendments)

Flammable, R10  
Dangerous for the environment, R52-53  
Xn, Harmful, R65  
R66

##### 2.2 Label elements

###### 2.2.1 Labeling according to Regulation (EC) 1272/2008 (CLP)



# MPEX® Diesel Stop Smoke

## Material Safety Data Sheet

Page 2 of 15

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revised on / Version: 10.01.2014 / 0003  
 Replaces revision of / Version: 18.10.2013 / 0002  
 Valid from: 10.01.2014  
 PDF print date: 18.02.2014  
 MPEX® DIESEL STOP SMOKE (51081)



Danger

### Hazard statement

H226-Flammable liquid and vapour. H304-May be fatal if swallowed and enters airways. H412-Harmful to aquatic life with long lasting effects.

P101-If medical advice is needed, have product container or label at hand. P102-Keep out of reach of children.

### Prevention

P210-Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

### Response

P301+P310-IF SWALLOWED: Immediately call a POISON CENTER/doctor. P331-Do NOT induce vomiting.

### Disposal

P501-Dispose of contents/container in a safe way.

EUH066-Repeated exposure may cause skin dryness or cracking.

Naphtha (petroleum), hydrotreated heavy

### 2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006.

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006.

## SECTION 3: Composition/information on ingredients

### 3.1 Substance

n.a.

### 3.2 Mixture

| Naphtha (petroleum), hydrotreated heavy                     |   |
|---|---|
| Registration number (REACH)                                 | --  |
| Index   | 649-327-00-6                              |
| EINECS, ELINCS, NLP   | 265-150-3                                 |
| CAS   | CAS 64742-48-9                            |
| content %   | 80-90                                     |
| Classification according to Directive 67/548/EEC            | Flammable, R10<br>Harmful, Xn, R65<br>R66 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Flam. Liq. 3, H226<br>Asp. Tox. 1, H304   |

| 2-Ethylhexylnitrate         |                       |
|-----------------------------|-----------------------|
| Registration number (REACH) | 01-2119539586-27-XXXX |
| Index                       | ---                   |
| EINECS, ELINCS, NLP         | 248-363-6             |
| CAS                         | CAS 27247-96-7        |
| content %                   | 10-<25                |



# MPEX® Diesel Stop Smoke

## Material Safety Data Sheet

Page 3 of 15

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revised on / Version: 10.01.2014 / 0003

Replaces revision of / Version: 18.10.2013 / 0002

Valid from: 10.01.2014

PDF print date: 18.02.2014

MPEX® DIESEL STOP SMOKE (51081)

|  |   |
|--|---|
| <b>Classification according to Directive 67/548/EEC</b>            | Harmful, Xn, R20/21/22<br>R44<br>Dangerous for the environment, N, R51<br>Dangerous for the environment, R53<br>R66 |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP)</b> | Acute Tox. 4, H302<br>Acute Tox. 4, H312<br>Acute Tox. 4, H332<br>Aquatic Chronic 2, H411                           |

|  |                    |
|--|--------------------|
| <b>Butanedioic acid, polyisobutylene derivatives</b>               |                    |
| <b>Registration number (REACH)</b>                                 | --                 |
| <b>Index</b>   | ---                |
| <b>EINECS, ELINCS, NLP</b>   | -                  |
| <b>CAS</b>   | ---                |
| <b>content %</b>   | 0,1-<5             |
| <b>Classification according to Directive 67/548/EEC</b>            | ---                |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP)</b> | Eye Irrit. 2, H319 |

|  |  |
|--|--|
| <b>2-Ethylhexanol</b>  |  |
| <b>Registration number (REACH)</b>                                 | 01-2119487289-20-XXXX  |
| <b>Index</b>   | ---  |
| <b>EINECS, ELINCS, NLP</b>   | 203-234-3  |
| <b>CAS</b>   | CAS 104-76-7   |
| <b>content %</b>   | 0,1-<2,5   |
| <b>Classification according to Directive 67/548/EEC</b>            | Harmful, Xn, R20<br>Irritant, Xi, R36/37/38  |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP)</b> | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Acute Tox. 4, H332<br>STOT SE 3, H335 |

For the text of the R-phrases / H-phrases and classification codes (GHS/CLP), see Section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### Inhalation

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

If the person is unconscious, place in a stable side position and consult a doctor.

#### Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

#### Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

#### Ingestion

Rinse the mouth thoroughly with water.

Do not induce vomiting. Consult doctor immediately.

Danger of aspiration

In case of vomiting, keep head low so that the stomach content does not reach the lungs.

Immediate admittance to a hospital.

### 4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.

The following may occur:

Irritation of the eyes

With long-term contact:

Product removes fat.



# MPEX® Diesel Stop Smoke

## Material Safety Data Sheet

GB

Page 4 of 15  
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
Revised on / Version: 10.01.2014 / 0003  
Replaces revision of / Version: 18.10.2013 / 0002  
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MPEX® DIESEL STOP SMOKE (51081)

Dermatitis (skin inflammation)  
Inhalation:  
Irritation of the respiratory tract  
Dizziness  
Headaches  
Effects/damages the central nervous system  
Unconsciousness  
Ingestion:  
Nausea  
Vomiting  
Danger of aspiration  
Oedema of the lungs  
Chemical pneumonitis (condition similar to pneumonia)  
In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

**4.3 Indication of any immediate medical attention and special treatment needed**  
Gastric lavage (stomach washing) only under endotracheal intubation.  
Subsequent observation for pneumonia and pulmonary oedema.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Water jet spray/foam/CO<sub>2</sub>/dry extinguisher

#### Unsuitable extinguishing media

High volume water jet

### 5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Oxides of nitrogen

Toxic gases

Explosive vapour/air mixture

Dangerous vapours heavier than air.

In case of spreading near the ground, flashback to distance sources of ignition is possible.

### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes.

Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary

Cool container at risk with water.

Dispose of contaminated extinction water according to official regulations.

## SECTION 6: Accidental release measures

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

Remove possible causes of ignition - do not smoke.

Ensure sufficient supply of air.

Avoid inhalation, and contact with eyes or skin.

If applicable, caution - risk of slipping

### 6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Prevent surface and ground-water infiltration, as well as ground penetration.

Prevent from entering drainage system.

If accidental entry into drainage system occurs, inform responsible authorities.

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

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth) and dispose of according to Section 13.

### 6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.



# MPEX® Diesel Stop Smoke

## Material Safety Data Sheet

Page 5 of 15

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revised on / Version: 10.01.2014 / 0003

Replaces revision of / Version: 18.10.2013 / 0002

Valid from: 10.01.2014

PDF print date: 18.02.2014

MPEX® DIESEL STOP SMOKE (51081)

### SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

#### 7.1 Precautions for safe handling

##### 7.1.1 General recommendations

Ensure good ventilation.

Avoid inhalation of the vapours.

Avoid contact with eyes or skin.

Keep away from sources of ignition - Do not smoke.

Take measures against electrostatic charging, if appropriate.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

##### 7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

#### 7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.

Store product closed and only in original packing.

Not to be stored in gangways or stair wells.

Solvent resistant floor

Do not store with oxidizing agents.

Observe special storage conditions (in Germany, e.g., in accordance with the regulations in the "Betriebssicherheitsverordnung").

Protect from direct sunlight and warming.

Store in a well ventilated place.

Store in a dry place.

#### 7.3 Specific end use(s)

No information available at present.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Workplace exposure limit (WEL) of the total hydrocarbon solvent content of the mixture (RCP method according to EH40):

1200 mg/m<sup>3</sup>

| Chemical Name   | Naphtha (petroleum), hydrotreated heavy |     | Content %:80-90 |
|---|---|-----|-----------------|
| WEL-TWA: 1200 mg/m <sup>3</sup> (>= C7 normal and branched chain alkanes) | WEL-STEL: ---                           | --- |                 |
| BMGV: ---   | Other information: ---                  |     |                 |

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.  
 \*\* = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

| 2-Ethylhexylnitrate |  |                  |            |       |      |      |
|---------------------|--|------------------|------------|-------|------|------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
|                     |  |                  |            |       |      |      |



# MPEX® Diesel Stop Smoke

## Material Safety Data Sheet

Page 6 of 15

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revised on / Version: 10.01.2014 / 0003

Replaces revision of / Version: 18.10.2013 / 0002

Valid from: 10.01.2014

PDF print date: 18.02.2014

MPEX® DIESEL STOP SMOKE (51081)

|                     |                          |                             |      |         |              |  |
|---------------------|--------------------------|-----------------------------|------|---------|--------------|--|
| Workers / employees | Human - dermal           | Long term, systemic effects | DNEL | 1       | mg/kg bw/day |  |
| Workers / employees | Human - inhalation       | Long term, systemic effects | DNEL | 0,35    | mg/m3        |  |
| Workers / employees | Human - dermal           | Long term, local effects    | DNEL | 0,044   | mg/cm2       |  |
| Consumer            | Human - dermal           | Long term, systemic effects | DNEL | 0,52    | mg/kg bw/day |  |
| Consumer            | Human - inhalation       | Long term, systemic effects | DNEL | 0,087   | mg/m3        |  |
| Consumer            | Human - oral             | Long term, systemic effects | DNEL | 0,025   | mg/kg bw/day |  |
| Consumer            | Human - dermal           | Long term, local effects    | DNEL | 0,022   | mg/cm2       |  |
|                     | Environment - freshwater |                             | PNEC | 0,8     | µg/l         |  |
|                     | Environment - marine     |                             | PNEC | 0,08    | µg/l         |  |
|                     | Environment - sediment   |                             | PNEC | 0,00074 | mg/kg dw     |  |
|                     | Environment - soil       |                             | PNEC | 0,00019 | mg/kg dw     |  |

### 2-Ethylhexanol

| Area of application | Exposure route / Environmental compartment    | Effect on health             | Descriptor | Value  | Unit         | Note |
|---------------------|---|------------------------------|------------|--------|--------------|------|
| Workers / employees | Human - inhalation                            | Short term, local effects    | DNEL       | 106,4  | mg/m3        |      |
| Workers / employees | Human - dermal                                | Long term, systemic effects  | DNEL       | 23     | mg/kg bw/day |      |
| Workers / employees | Human - inhalation                            | Long term, systemic effects  | DNEL       | 53,2   | mg/m3        |      |
| Consumer            | Human - inhalation                            | Short term, local effects    | DNEL       | 53,2   | mg/m3        |      |
| Consumer            | Human - dermal                                | Long term, systemic effects  | DNEL       | 11,4   | mg/kg bw/day |      |
| Consumer            | Human - inhalation                            | Long term, systemic effects  | DNEL       | 2,3    | mg/m3        |      |
| Consumer            | Human - oral                                  | Short term, systemic effects | DNEL       | 1,1    | mg/kg bw/day |      |
|                     | Environment - freshwater                      |                              | PNEC       | 0,017  | mg/l         |      |
|                     | Environment - marine                          |                              | PNEC       | 0,0017 | mg/l         |      |
|                     | Environment - sporadic (intermittent) release |                              | PNEC       | 0,17   | mg/l         |      |
|                     | Environment - sewage treatment plant          |                              | PNEC       | 10     | mg/l         |      |
|                     | Environment - sediment, freshwater            |                              | DNEL       | 0,28   | mg/kg dw     |      |
|                     | Environment - sediment, marine                |                              | PNEC       | 0,028  | mg/kg dw     |      |
|                     | Environment - soil                            |                              | PNEC       | 0,047  | mg/kg dw     |      |
|                     | Environment - oral (animal feed)              |                              | PNEC       | 55     | mg/kg feed   |      |

## 8.2 Exposure controls

### 8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

### 8.2.2 Individual protection measures, such as personal protective equipment



# MPEX<sup>®</sup> Diesel Stop Smoke

## Material Safety Data Sheet

Page 7 of 15

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revised on / Version: 10.01.2014 / 0003

Replaces revision of / Version: 18.10.2013 / 0002

Valid from: 10.01.2014

PDF print date: 18.02.2014

MPEX<sup>®</sup> DIESEL STOP SMOKE (51081)

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:

Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:

Solvent resistant protective gloves (EN 374).

If applicable

Protective nitrile gloves (EN 374)

Minimum layer thickness in mm:

0,4

Permeation time (penetration time) in minutes:

480

The recommended maximum wearing time is 50% of breakthrough time.

The breakthrough times determined in accordance with EN 374 Part III were not obtained under practical conditions.

Protective hand cream recommended.

Skin protection - Other:

Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments)

Respiratory protection:

If OES or MEL is exceeded.

Gas mask filter A (EN 14387), code colour brown

At high concentrations:

Respiratory protection appliance (insulation device) (e.g. EN 137 or EN 138)

Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:

Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

### 8.2.3 Environmental exposure controls

No information available at present.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|  |   |
|--|---|
| Physical state:                          | Liquid  |
| Colour:                                  | Amber   |
| Odour:                                   | Characteristic  |
| Odour threshold:                         | Not determined  |
| pH-value:                                | n.a.  |
| Melting point/freezing point:            | Not determined  |
| Initial boiling point and boiling range: | Not determined  |
| Flash point:                             | 40-46 °C ((Particulars of main substances contained) )  |
| Evaporation rate:                        | Not determined  |
| Flammability (solid, gas):               | Not determined  |
| Lower explosive limit:                   | 0,6 Vol-% ((Particulars of main substances contained) ) |
| Upper explosive limit:                   | 6 Vol-% ((Particulars of main substances contained) )   |
| Vapour pressure:                         | Not determined  |



# MPEX® Diesel Stop Smoke

## Material Safety Data Sheet

GB

Page 8 of 15  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revised on / Version: 10.01.2014 / 0003  
 Replaces revision of / Version: 18.10.2013 / 0002  
 Valid from: 10.01.2014  
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 MPEX® DIESEL STOP SMOKE (51081)

|  |   |
|--|---|
| Vapour density (air = 1):                | Not determined  |
| Density:                                 | Not determined  |
| Bulk density:                            | n.a.  |
| Solubility(ies):                         | Not determined  |
| Water solubility:                        | Insoluble   |
| Partition coefficient (n-octanol/water): | Not determined  |
| Auto-ignition temperature:               | No  |
| Decomposition temperature:               | Not determined  |
| Viscosity:                               | <7 mm <sup>2</sup> /s   |
| Explosive properties:                    | Product is not explosive. Possible build up of explosive/highly flammable vapour/air mixture. |
| Oxidising properties:                    | No  |

### 9.2 Other information

|                           |                |
|---------------------------|----------------|
| Miscibility:              | Not determined |
| Fat solubility / solvent: | Not determined |
| Conductivity:             | Not determined |
| Surface tension:          | Not determined |
| Solvents content:         | Not determined |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

The product has not been tested.

### 10.2 Chemical stability

Stable with proper storage and handling.

### 10.3 Possibility of hazardous reactions

Possible build up of flammable vapour/air mixture.

### 10.4 Conditions to avoid

See also section 7.

Heating, open flame, ignition sources

### 10.5 Incompatible materials

See also section 7.

Avoid contact with strong oxidizing agents.

### 10.6 Hazardous decomposition products

See also section 5.2

No decomposition when used as directed.

## SECTION 11: Toxicological information

Possibly more information on health effects, see Section 2.1 (classification).

### MPEX® DIESEL STOP SMOKE (51081)

| Toxicity/effect                    | Endpoint | Value | Unit    | Organism | Test method | Notes                     |
|------------------------------------|----------|-------|---------|----------|-------------|---------------------------|
| Acute toxicity, by oral route:     | ATE      | >2000 | mg/kg   |          |             | calculated value          |
| Acute toxicity, by dermal route:   | ATE      | >2000 | mg/kg   |          |             | calculated value          |
| Acute toxicity, by inhalation:     | ATE      | >20   | mg/l/4h |          |             | calculated value, Vapours |
| Acute toxicity, by inhalation:     | ATE      | >5    | mg/l/4h |          |             | calculated value, Aerosol |
| Skin corrosion/irritation:         |          |       |         |          |             | n.d.a.                    |
| Serious eye damage/irritation:     |          |       |         |          |             | n.d.a.                    |
| Respiratory or skin sensitisation: |          |       |         |          |             | n.d.a.                    |
| Germ cell mutagenicity:            |          |       |         |          |             | n.d.a.                    |
| Carcinogenicity:                   |          |       |         |          |             | n.d.a.                    |
| Reproductive toxicity:             |          |       |         |          |             | n.d.a.                    |





# MPEX® Diesel Stop Smoke

## Material Safety Data Sheet

Page 9 of 15

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revised on / Version: 10.01.2014 / 0003

Replaces revision of / Version: 18.10.2013 / 0002

Valid from: 10.01.2014

PDF print date: 18.02.2014

MPEX® DIESEL STOP SMOKE (51081)

|   |  |  |  |  |  |  |
|---|--|--|--|--|--|--|
| Specific target organ toxicity - single exposure (STOT-SE):   |  |  |  |  |  | n.d.a.   |
| Specific target organ toxicity - repeated exposure (STOT-RE): |  |  |  |  |  | n.d.a.   |
| Aspiration hazard:  |  |  |  |  |  | n.d.a.   |
| Respiratory tract irritation:                                 |  |  |  |  |  | n.d.a.   |
| Repeated dose toxicity:                                       |  |  |  |  |  | n.d.a.   |
| Symptoms:   |  |  |  |  |  | n.d.a.   |
| Other information:  |  |  |  |  |  | Classification according to calculation procedure. |

### Naphtha (petroleum), hydrotreated heavy

| Toxicity/effect                  | Endpoint | Value | Unit    | Organism | Test method | Notes   |
|----------------------------------|----------|-------|---------|----------|-------------|---|
| Acute toxicity, by oral route:   | LD50     | >2000 | mg/kg   | Rat      |             |   |
| Acute toxicity, by dermal route: | LD50     | >2000 | mg/kg   | Rabbit   |             |   |
| Acute toxicity, by inhalation:   | LC50     | >5    | mg/l/4h | Rat      |             |   |
| Skin corrosion/irritation:       |          |       |         |          |             | Repeated exposure may cause skin dryness or cracking. |
| Aspiration hazard:               |          |       |         |          |             | Yes   |
| Symptoms:                        |          |       |         |          |             | unconsciousness, headaches, dizziness                 |

### 2-Ethylhexylnitrate

| Toxicity/effect                    | Endpoint | Value | Unit       | Organism | Test method   | Notes   |
|------------------------------------|----------|-------|------------|----------|---|---|
| Acute toxicity, by oral route:     | LD50     | >9640 | mg/kg      | Rat      |   |   |
| Acute toxicity, by oral route:     |          |       |            |          |   | Experiences on persons., Harmful                                    |
| Acute toxicity, by dermal route:   |          |       |            |          |   | Experiences on persons., Harmful                                    |
| Acute toxicity, by dermal route:   | LDLo     | 4820  | mg/kg      | Rabbit   |   |   |
| Acute toxicity, by inhalation:     |          |       |            |          |   | Experiences on persons., Harmful                                    |
| Acute toxicity, by inhalation:     | LCLo     | >4,6  | mg/l/1h    | Rat      |   |   |
| Skin corrosion/irritation:         |          |       |            | Rabbit   | OECD 404 (Acute Dermal Irritation/Corrosion)                  | Not irritant, Repeated exposure may cause skin dryness or cracking. |
| Serious eye damage/irritation:     |          |       |            | Rabbit   | OECD 405 (Acute Eye Irritation/Corrosion)                     | Mild irritant   |
| Respiratory or skin sensitisation: |          |       |            |          | OECD 406 (Skin Sensitisation)                                 | Not sensitizing   |
| Germ cell mutagenicity:            |          |       |            |          | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)         | Negative  |
| Reproductive toxicity:             | NOAEL    | 20    | mg/kg bw/d |          | OECD 421 (Reproduction/Developmental Toxicity Screening Test) |   |
| Reproductive toxicity:             | NOAEL    | 100   | mg/kg      |          | OECD 421 (Reproduction/Developmental Toxicity Screening Test) |   |
| Reproductive toxicity:             | NOAEL    | 20    | mg/kg bw/d |          |   | Negative  |



# MPEX® Diesel Stop Smoke

## Material Safety Data Sheet

Page 10 of 15

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revised on / Version: 10.01.2014 / 0003

Replaces revision of / Version: 18.10.2013 / 0002

Valid from: 10.01.2014

PDF print date: 18.02.2014

MPEX® DIESEL STOP SMOKE (51081)

### 2-Ethylhexanol

| Toxicity/effect   | Endpoint | Value  | Unit       | Organism | Test method                      | Notes   |
|---|----------|--------|------------|----------|----------------------------------|---|
| Acute toxicity, by oral route:  | LD50     | 2049   | mg/kg      | Rat      |                                  |   |
| Acute toxicity, by dermal route:  | LD50     | > 3000 | mg/kg      | Rat      | OECD 402 (Acute Dermal Toxicity) |   |
| Acute toxicity, by inhalation:  | LC50     | 2,7    | mg/l/4h    |          |                                  |   |
| Skin corrosion/irritation:  |          |        |            | Rabbit   |                                  | Irritant  |
| Serious eye damage/irritation:  |          |        |            | Rabbit   |                                  | Irritant  |
| Respiratory or skin sensitisation:                                      |          |        |            |          |                                  | No (skin contact)   |
| Carcinogenicity:  | NOAEL    | 750    | mg/kg bw/d |          |                                  |   |
| Specific target organ toxicity - repeated exposure (STOT-RE):           | NOAEL    | 200    | mg/kg bw/d | Mouse    |                                  |   |
| Symptoms:   |          |        |            |          |                                  | unconsciousness, drop in blood pressure, vomiting, headaches, cramps, drowsiness, mucous membrane irritation, dizziness, nausea |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEC    | 638,4  | mg/m3      |          |                                  |   |

## SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).

### MPEX® DIESEL STOP SMOKE (51081)

| Toxicity/effect                     | Endpoint | Time | Value | Unit | Organism | Test method | Notes  |
|-------------------------------------|----------|------|-------|------|----------|-------------|--|
| Toxicity to fish:                   |          |      |       |      |          |             | n.d.a.   |
| Toxicity to daphnia:                |          |      |       |      |          |             | n.d.a.   |
| Toxicity to algae:                  |          |      |       |      |          |             | n.d.a.   |
| Persistence and degradability:      |          |      |       |      |          |             | Isolate as much as possible with an oil separator. |
| Bioaccumulative potential:          |          |      |       |      |          |             | n.d.a.   |
| Mobility in soil:                   |          |      |       |      |          |             | n.d.a.   |
| Results of PBT and vPvB assessment: |          |      |       |      |          |             | n.d.a.   |
| Other adverse effects:              |          |      |       |      |          |             | n.d.a.   |

### Naphtha (petroleum), hydrotreated heavy

| Toxicity/effect                | Endpoint | Time | Value   | Unit | Organism      | Test method | Notes                 |
|--------------------------------|----------|------|---------|------|---------------|-------------|-----------------------|
| Toxicity to fish:              | LC50     | 96h  | >100    | mg/l |               |             |                       |
| Toxicity to daphnia:           | EC50     | 48h  | >1000   | mg/l | Daphnia magna |             |                       |
| Persistence and degradability: |          | 28d  | 70      | %    |               |             | Readily biodegradable |
| Bioaccumulative potential:     | Log Pow  |      | 5 - 6,7 |      |               |             |                       |

### 2-Ethylhexylnitrate

| Toxicity/effect      | Endpoint | Time | Value | Unit | Organism          | Test method | Notes |
|----------------------|----------|------|-------|------|-------------------|-------------|-------|
| Toxicity to fish:    | LC50     | 96h  | 1,88  | mg/l | Brachydanio rerio |             |       |
| Toxicity to daphnia: | EC50     | 48h  | >12,6 | mg/l | Daphnia magna     |             |       |



# MPEX® Diesel Stop Smoke

## Material Safety Data Sheet

Page 11 of 15

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revised on / Version: 10.01.2014 / 0003

Replaces revision of / Version: 18.10.2013 / 0002

Valid from: 10.01.2014

PDF print date: 18.02.2014

MPEX® DIESEL STOP SMOKE (51081)

|                                     |         |     |           |      |  |  |  |
|-------------------------------------|---------|-----|-----------|------|--|--|--|
| Toxicity to algae:                  | EC50    | 72h | >12,6     | mg/l |  |  |  |
| Persistence and degradability:      |         | 28d | 0         | %    |  |  | Not readily biodegradable  |
| Persistence and degradability:      |         | 15d |           |      |  |  | A notable biological accumulation potential has to be expected (LogPow > 3). |
| Bioaccumulative potential:          | Log Pow |     | 3,74-5,24 |      |  |  | A notable biological accumulation potential has to be expected (LogPow > 3). |
| Bioaccumulative potential:          | Log Pow |     | 3,74-5,24 |      |  |  |  |
| Bioaccumulative potential:          | BCF     |     | 1332      |      |  |  |  |
| Mobility in soil:                   | Log Koc |     | 3,8       |      |  |  |  |
| Results of PBT and vPvB assessment: |         |     |           |      |  |  | No PBT substance, No vPvB substance  |
| Other information:                  | AOX     |     | 0         | %    |  |  | No   |
| Water solubility:                   |         |     |           |      |  |  | Slight   |

### 2-Ethylhexanol

| Toxicity/effect                     | Endpoint | Time | Value | Unit | Organism                | Test method  | Notes                               |
|-------------------------------------|----------|------|-------|------|-------------------------|--|-------------------------------------|
| Toxicity to fish:                   | LC50     | 96h  | 17,1  | mg/l | Leuciscus idus          |  |                                     |
| Toxicity to daphnia:                | EC50     | 48h  | 39    | mg/l | Daphnia magna           |  |                                     |
| Toxicity to algae:                  | EC50     | 72h  | 11,5  | mg/l | Scenedesmus subspicatus |  |                                     |
| Persistence and degradability:      |          | 5d   | > 95  | %    |                         | OECD 301 B (Ready Biodegradability - Co2 Evolution Test) |                                     |
| Bioaccumulative potential:          | Log Kow  |      | 2,9   |      |                         |  |                                     |
| Bioaccumulative potential:          | BCF      |      | 25,33 |      |                         |  |                                     |
| Results of PBT and vPvB assessment: |          |      |       |      |                         |  | No PBT substance, No vPvB substance |

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### For the substance / mixture / residual amounts

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2001/118/EC, 2001/119/EC, 2001/573/EC)

13 07 03 other fuels (including mixtures)

Recommendation:

Pay attention to local and national official regulations

E.g. suitable incineration plant.

#### For contaminated packing material

Pay attention to local and national official regulations

Empty container completely.

Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

Do not perforate, cut up or weld uncleaned container.

Residues may present a risk of explosion.



# MPEX<sup>®</sup> Diesel Stop Smoke

## Material Safety Data Sheet

Page 12 of 15

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
Revised on / Version: 10.01.2014 / 0003  
Replaces revision of / Version: 18.10.2013 / 0002  
Valid from: 10.01.2014  
PDF print date: 18.02.2014  
MPEX<sup>®</sup> DIESEL STOP SMOKE (51081)

### SECTION 14: Transport information

#### General statements

UN number: 1993

#### Transport by road/by rail (ADR/RID)

UN proper shipping name: UN 1993 FLAMMABLE LIQUID, N.O.S. (NAPHTHA (PETROLEUM)) (SPECIAL PROVISION 640E)  
Transport hazard class(es): 3  
Packing group: III  
Classification code: F1  
LQ (ADR 2013): 5 L  
LQ (ADR 2009): 7  
Environmental hazards: Not applicable  
Tunnel restriction code: D/E



#### Transport by sea (IMDG-code)

UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (NAPHTHA (PETROLEUM))  
Transport hazard class(es): 3  
Packing group: III  
EmS: F-E, S-E  
Marine Pollutant: n.a  
Environmental hazards: Not applicable



#### Transport by air (IATA)

UN proper shipping name: Flammable liquid, n.o.s. (NAPHTHA (PETROLEUM))  
Transport hazard class(es): 3  
Packing group: III  
Environmental hazards: Not applicable



#### Special precautions for user

Persons employed in transporting dangerous goods must be trained.  
All persons involved in transporting must observe safety regulations.  
Precautions must be taken to prevent damage.

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Freighted as packaged goods rather than in bulk, therefore not applicable.  
Minimum amount regulations have not been taken into account.  
Danger code and packing code on request.

### SECTION 15: Regulatory information

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

For classification and labelling see Section 2.

Observe restrictions: Yes  
Comply with trade association/occupational health regulations.  
Observe youth employment law (German regulation).  
Observe law on protection of expectant mothers (German regulation).

#### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

### SECTION 16: Other information

These details refer to the product as it is delivered.

Revised sections: 2, 3

**Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):**



# MPEX® Diesel Stop Smoke

## Material Safety Data Sheet

Page 13 of 15

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
Revised on / Version: 10.01.2014 / 0003  
Replaces revision of / Version: 18.10.2013 / 0002  
Valid from: 10.01.2014  
PDF print date: 18.02.2014  
MPEX® DIESEL STOP SMOKE (51081)

| Classification in accordance with regulation<br>(EC) No. 1272/2008 (CLP) | Evaluation method used                             |
|--|--|
| Flam. Liq. 3, H226   | Classification based on test data.                 |
| Asp. Tox. 1, H304  | Classification according to calculation procedure. |
| Aquatic Chronic 3, H412  | Classification according to calculation procedure. |

The following phrases represent the posted R phrases / H phrases, Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

10 Flammable.  
20 Harmful by inhalation.  
20/21/22 Harmful by inhalation, in contact with skin and if swallowed.  
36/37/38 Irritating to eyes, respiratory system and skin.  
44 Risk of explosion if heated under confinement.  
51 Toxic to aquatic organisms.  
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
53 May cause long-term adverse effects in the aquatic environment.  
65 Harmful: may cause lung damage if swallowed.  
66 Repeated exposure may cause skin dryness or cracking.  
H226 Flammable liquid and vapour.  
H302 Harmful if swallowed.  
H304 May be fatal if swallowed and enters airways.  
H312 Harmful in contact with skin.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.  
H411 Toxic to aquatic life with long lasting effects.

Flam. Liq. — Flammable liquid  
Asp. Tox. — Aspiration hazard  
Aquatic Chronic — Hazardous to the aquatic environment - chronic  
Acute Tox. — Acute toxicity - oral  
Acute Tox. — Acute toxicity - dermal  
Acute Tox. — Acute toxicity - inhalation  
Eye Irrit. — Eye irritation  
Skin Irrit. — Skin irritation  
STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation

### Any abbreviations and acronyms used in this document:

AC Article Categories  
acc., acc. to according, according to  
ACGIH American Conference of Governmental Industrial Hygienists  
ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)  
AOEL Acceptable Operator Exposure Level  
AOX Adsorbable organic halogen compounds  
approx. approximately  
Art., Art. no. Article number  
ATE Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)  
BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)  
BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)  
BCF Bioconcentration factor  
BGV Berufsgenossenschaftliche Vorschrift (= Accident Prevention Regulation)  
BHT Butylhydroxytoluol (= 2,6-Di-t-butyl-4-methyl-phenol)  
BMGV Biological monitoring guidance value (EH40, UK)  
BOD Biochemical oxygen demand  
BSEF Bromine Science and Environmental Forum



# MPEX® Diesel Stop Smoke

## Material Safety Data Sheet

Page 14 of 15

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revised on / Version: 10.01.2014 / 0003

Replaces revision of / Version: 18.10.2013 / 0002

Valid from: 10.01.2014

PDF print date: 18.02.2014

MPEX® DIESEL STOP SMOKE (51081)

bw body weight  
CAS Chemical Abstracts Service  
CEC Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants and Other Fluids  
CESIO Comité Européen des Agents de Surface et de leurs Intermédiaires Organiques  
CIPAC Collaborative International Pesticides Analytical Council  
CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)  
CMR carcinogenic, mutagenic, reproductive toxic  
COD Chemical oxygen demand  
CTFA Cosmetic, Toiletry, and Fragrance Association  
DMEL Derived Minimum Effect Level  
DNEL Derived No Effect Level  
DOC Dissolved organic carbon  
DT50 Dwell Time - 50% reduction of start concentration  
DVS Deutscher Verband für Schweißen und verwandte Verfahren e.V. (= German Association for Welding and Allied Processes)  
dw dry weight  
e.g. for example (abbreviation of Latin 'exempli gratia'), for instance  
EC European Community  
ECHA European Chemicals Agency  
EEA European Economic Area  
EEC European Economic Community  
EINECS European Inventory of Existing Commercial Chemical Substances  
ELINCS European List of Notified Chemical Substances  
EN European Norms  
EPA United States Environmental Protection Agency (United States of America)  
ERC Environmental Release Categories  
ES Exposure scenario  
etc. et cetera  
EU European Union  
EWC European Waste Catalogue  
Fax. Fax number  
gen. general  
GHS Globally Harmonized System of Classification and Labelling of Chemicals  
GWP Global warming potential  
HET-CAM Hen's Egg Test - Chorionallantoic Membrane  
HGWP Halocarbon Global Warming Potential  
IARC International Agency for Research on Cancer  
IATA International Air Transport Association  
IBC Intermediate Bulk Container  
IBC (Code) International Bulk Chemical (Code)  
IC Inhibitory concentration  
IMDG-code International Maritime Code for Dangerous Goods  
incl. including, inclusive  
IUCLID International Uniform Chemical Information Database  
LC lethal concentration  
LC50 lethal concentration 50 percent kill  
LCLo lowest published lethal concentration  
LD Lethal Dose of a chemical  
LD50 Lethal Dose, 50% kill  
LDLo Lethal Dose Low  
LOAEL Lowest Observed Adverse Effect Level  
LOEC Lowest Observed Effect Concentration  
LOEL Lowest Observed Effect Level  
LQ Limited Quantities  
MARPOL International Convention for the Prevention of Marine Pollution from Ships  
n.a. not applicable  
n.av. not available  
n.c. not checked  
n.d.a. no data available  
NIOSH National Institute of Occupational Safety and Health (United States of America)  
NOAEC No Observed Adverse Effective Concentration  
NOAEL No Observed Adverse Effect Level



# MPEX® Diesel Stop Smoke

## Material Safety Data Sheet

Page 15 of 15

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revised on / Version: 10.01.2014 / 0003

Replaces revision of / Version: 18.10.2013 / 0002

Valid from: 10.01.2014

PDF print date: 18.02.2014

MPEX® DIESEL STOP SMOKE (51081)

NOEC No Observed Effect Concentration

NOEL No Observed Effect Level

ODP Ozone Depletion Potential

OECD Organisation for Economic Co-operation and Development

org. organic

PAH polycyclic aromatic hydrocarbon

PBT persistent, bioaccumulative and toxic

PC Chemical product category

PE Polyethylene

PNEC Predicted No Effect Concentration

POCP Photochemical ozone creation potential

ppm parts per million

PROC Process category

PTFE Polytetrafluorethylene

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)

REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.

RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)

SADT Self-Accelerating Decomposition Temperature

SAR Structure Activity Relationship

SU Sector of use

SVHC Substances of Very High Concern

Tel. Telephone

ThOD Theoretical oxygen demand

TOC Total organic carbon

TRGS Technische Regeln für Gefahrstoffe (=Technical Regulations for Hazardous Substances)

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

VbF Verordnung über brennbare Flüssigkeiten (= Regulation for flammable liquids (Austria))

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

WEL-TWA, WEL-STEL WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period), WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period) (EH40, UK).

WHO World Health Organization

wwt wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

No responsibility.

These statements were made by:

**Leading Solvent Supplies Ltd, Marston Business Park, Rudgate, Tockwith, YO26 7QF United Kingdom**

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