

# Material Safety Data Sheet 1907/2006/Ec, Article 31

## MPEX® — 100C

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

#### 1.1. Product identifier

**Product name** Mpex 100C Metal Protection Aerosols  
**Product number** 2306

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

**Identified uses** Protectant

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

**Supplier** Leading Solvent Supplies Ltd  
Marston Business Park  
Rudgate, Tockwith YO26 7QF  
United Kingdom  
sales@mpexdirect.com  
+44 (0)1423 358 000 (Hours 09:00 – 17:00 Mon to Fri)

#### 1.4. Emergency telephone number

**Emergency telephone** Leading Solvent Supplies Ltd - tel: +44 (0)1423 358000

### SECTION 2: Hazards identification

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

##### Classification

##### Physical hazards

Aerosol 1 - H222, H229

##### Health hazards

STOT SE 3 - H336

##### Environmental hazards

Not Classified

##### Classification (67/548/EEC or 1999/45/EC)

F+; R12. R67

##### Human health

Vapours and spray/mists in high concentrations are narcotic.

##### Environmental

The product is not expected to be hazardous to the environment.

##### Physicochemical

Containers can burst violently or explode when heated, due to excessive pressure build-up. The product is extremely flammable. Vapours may form explosive mixtures with air.

#### 2.2. Label elements

##### Pictogram



##### Signal word

Danger

##### Hazard statements

H222 Extremely flammable aerosol.  
H229 Pressurised container: may burst if heated  
H336 May cause drowsiness or dizziness.



**Precautionary statements**

- P102 Keep out of reach of children.
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P211 Do not spray on an open flame or other ignition source.
- P251 Do not pierce or burn, even after use.
- P261 Avoid breathing vapour/spray.
- P271 Use only outdoors or in a well-ventilated area.
- P302+P352 IF ON SKIN: Wash with plenty of water.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P312 Call a POISON CENTER/doctor if you feel unwell.
- P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

**Contains**

NAPHTHA (PETROLEUM), HYDROTREATED HEAVY

**Supplementary precautionary statements**

- P264 Wash contaminated skin thoroughly after handling.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P321 Specific treatment (see medical advice on this label).
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P391 Collect spillage.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with national regulations.

**2.3. Other hazards**

This product does not contain any substances classified as PBT or vPvB.

**SECTION 3: Composition/information on ingredients**

**3.2. Mixtures**

<b>PETROLEUM GASES, LIQUEFIED</b>	<b>30-60%</b>
CAS number: 68476-85-7 EC number: 270-704-2	
Classification	Classification (67/548/EEC or 1999/45/EC)
Flam. Gas 1 - H220	
Press. Gas, Compressed - H280	
<b>NAPHTHA (PETROLEUM), HYDROTREATED HEAVY</b>	<b>30-60%</b>
CAS number: 64742-48-9 EC number: 919-857-5	
Classification	Classification (67/548/EEC or 1999/45/EC)
Flam. Liq. 3 - H226	
STOT SE 3 - H336	
Asp. Tox. 1 - H304	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**General information**

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.



**Inhalation**

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. If in doubt, get medical attention promptly.

**Ingestion**

Rinse mouth thoroughly with water. Remove person to fresh air and keep comfortable for breathing. Get medical attention.

**Skin contact**

Wash skin thoroughly with soap and water. Get medical attention promptly if symptoms occur after washing.

**Eye contact**

Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.

**Protection of first aiders**

First aid personnel should wear appropriate protective equipment during any rescue.

**4.2. Most important symptoms and effects, both acute and delayed**

**General information**

See Section 11 for additional information on health hazards.

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

**Notes for the doctor**

Treat symptomatically.

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media**

Foam, carbon dioxide or dry powder.

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

**Specific hazards**

Containers can burst violently or explode when heated, due to excessive pressure build-up.

**5.3. Advice for firefighters**

**Protective actions during firefighting**

Use water to keep fire exposed containers cool and disperse vapours. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk.

**SECTION 6: Accidental release measures**

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

**Personal precautions**

Avoid inhalation of vapours and contact with skin and eyes. Ensure suitable respiratory protection is worn during removal of spillages in confined areas.

**6.2. Environmental precautions**

**Environmental precautions**

Avoid discharge into drains.

**6.3. Methods and material for containment and cleaning up**

**Methods for cleaning up**

Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Absorb in vermiculite, dry sand or earth and place into containers.

**6.4. Reference to other sections**

**Reference to other sections**

For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.



## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Usage precautions

Keep away from heat, sparks and open flame. Read and follow manufacturer's recommendations. When sprayed on a naked flame or any incandescent material the aerosol vapours can be ignited. Use suitable respiratory protection if ventilation is inadequate.

#### Advice on general occupational hygiene

Wash promptly with soap and water if skin becomes contaminated.

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

#### Storage precautions

Do not store near heat sources or expose to high temperatures. Keep away from heat, sparks and open flame.

### 7.3. Specific end use(s)

#### Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

#### PETROLEUM GASES, LIQUEFIED

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1750 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 1250 ppm 2180 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

### 8.2. Exposure controls

#### Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.

#### Hand protection

No specific hand protection recommended.

#### Other skin and body protection

Wear suitable protective equipment for prolonged exposure and/or high concentrations of vapours, spray or mist.

#### Respiratory protection

No specific recommendations. If ventilation is inadequate, suitable respiratory protection must be worn.

## SECTION 9: Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

#### Appearance

Aerosol.

#### Colour

Clear.

#### Odour

Solvent.

#### Odour threshold

No information available.

#### pH

No information available.

#### Melting point

No information available.

#### Initial boiling point and range



-41 (-41 TO 215)°C @

**Flash point**

-40°C CC (Closed cup).

**Evaporation rate**

No information available.

**Evaporation factor**

No information available.

**Flammability (solid, gas)**

No information available.

**Upper/lower flammability or explosive limits**

Lower flammable/explosive limit: 0.6 % Upper flammable/explosive limit: 9.5 %

**Vapour pressure**

No information available.

**Vapour density**

No information available.

**Relative density**

0.66

**Solubility(ies)**

Insoluble in water.

**Partition coefficient**

No information available.

**Auto-ignition temperature**

240°C

**Decomposition Temperature**

No information available.

**Viscosity**

No information available.

**Oxidising properties**

No information available.

**9.2. Other information**

**Other information**

None.

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

No test data specifically related to reactivity available for this product or its ingredients.

**10.2. Chemical stability**

**Stability**

The product may not be stable under some conditions of storage or use.

**10.3. Possibility of hazardous reactions**

None known.

**10.4. Conditions to avoid**

Avoid heat, flames and other sources of ignition. Avoid exposing aerosol containers to high temperatures or direct sunlight

**10.5. Incompatible materials**

**Materials to avoid**

None known.



**10.6. Hazardous decomposition products**

None at ambient temperatures.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

**Inhalation**

May cause drowsiness or dizziness. Vapours in high concentrations are narcotic. Vapours may cause headache, fatigue, dizziness and nausea.

**Skin contact**

No significant hazard at normal ambient temperatures.

**Eye contact**

Vapour or spray in the eyes may cause irritation and smarting.

**Acute and chronic health hazards**

No known chronic or acute health risks.

**Route of entry**

Inhalation Skin and/or eye contact

Toxicological information on ingredients.

NAPHTHA (PETROLEUM), HYDROTREATED HEAVY

Acute toxicity - oral

**Acute toxicity oral (LD50 mg/kg)**

5,001.0

**Species**

Rat

**ATE oral (mg/kg)**

5,001.0

Acute toxicity - dermal

**Acute toxicity dermal (LD50 mg/kg)**

3001.0

**Species**

Rabbit

**ATE dermal (mg/kg)**

3001.0

**SECTION 12: Ecological Information**

**12.1. Toxicity**

**12.2. Persistence and degradability**

**Persistence and degradability**

No data available.

**12.3. Bioaccumulative potential**

**Partition coefficient**

No information available.

**12.4. Mobility in soil**

**Mobility**

No data available

**12.5. Results of PBT and vPvB assessment**

This product does not contain any substances classified as PBT or vPvB.



**12.6. Other adverse effects**

None known.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**General information**

Dispose of waste product or used containers in accordance with local regulations

**Disposal methods**

Containers should be thoroughly emptied before disposal because of the risk of an explosion. Do not pierce or burn, even after use.

**SECTION 14: Transport information**

**14.1. UN number**

UN No. (ADR/RID)	1950
UN No. (IMDG)	1950
UN No. (ICAO)	1950
UN No. (ADN)	1950

**14.2. UN proper shipping name**

Proper shipping name (ADR/RID)	AEROSOLS
Proper shipping name (IMDG)	AEROSOLS
Proper shipping name (ICAO)	AEROSOLS
Proper shipping name (ADN)	AEROSOLS

**14.3. Transport hazard class(es)**

ADR/RID class	2.1
ADR/RID classification code	5F
ADR/RID label	2.1
IMDG class	2.1
ICAO class/division	2.1
ADN class	2.1

**Transport labels**



**14.4. Packing group**

Not applicable.

**14.5. Environmental hazards**

Environmentally hazardous substance/marine pollutant

No.

**14.6. Special precautions for user**

EmS	F-D, S-U
ADR transport category	2
Tunnel restriction code	(D)



**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

**SECTION 15: Regulatory information**

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

**National regulations**

The Aerosol Dispensers Regulations 2009 (SI 2009 No. 2824).

**EU legislation**

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out.

**SECTION 16: Other information**

**Revision date** 22/01/2015

**Revision** 1

**SDS number** 4861

**Hazard statements in full**

- H220 Extremely flammable gas.
- H222 Extremely flammable aerosol.
- H226 Flammable liquid and vapour.
- H229 Pressurised container: may burst if heated
- H280 Contains gas under pressure; may explode if heated.
- H304 May be fatal if swallowed and enters airways.
- H336 May cause drowsiness or dizziness.

**Disclaimer**

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.