

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

MPEX® — 700

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

1.1. Product identifier

Product name Mpex 700 Universal Degreaser & Cleaner Aerosols
Product number 2405

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

Identified uses Cleaning agent.

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

Not Classified

Environmental hazards

Not Classified

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

F+; R12

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

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.
- P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

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

DIMETHYL ETHER CAS number: 115-10-6 EC number: 204-065-8	10-30%
Classification Flam. Gas 1 - H220 Press. Gas, Liquefied - H280	Classification (67/548/EEC or 1999/45/EC)
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT CAS number: 64742-47-8 EC number: 265-149-8	10-30%
Classification Asp. Tox. 1 - H304	Classification (67/548/EEC or 1999/45/EC)

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

DIMETHYL ETHER

Long-term exposure limit (8-hour TWA): 400 ppm

Short-term exposure limit (15-minute): 500 ppm

DIMETHYL ETHER (CAS: 115-10-6)

DNEL

Workers - Inhalation; Long term systemic effects: 1894 mg/m³
Consumer - Inhalation; Long term systemic effects: 471 mg/m³

PNEC

- Fresh water; 0.155 mg/l
- Marine water; 0.016 mg/l
- Intermittent release; 1.549 mg/l
- Sediment (Freshwater); 0.681 mg/kg
- Sediment (Marinewater); 0.069 mg/kg
- STP; 160 mg/l
- Soil; 0.045 mg/kg

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

-25 (-25 TO 190)°C @

Flash point

-41°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: 0.5 % Upper flammable/explosive limit: 32.0 %

Vapour pressure

No information available.

Vapour density

No information available.

Relative density

0.836

Solubility(ies)

Slightly soluble in water.

Partition coefficient

No information available.

Auto-ignition temperature

226°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

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.

DIMETHYL ETHER

Acute toxicity - inhalation

Acute toxicity inhalation (LC50 gases ppmV)

164000.0

Species

Rat

ATE inhalation (gases ppm)

164000.0

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT

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)

2001.0

Species

Rabbit

ATE dermal (mg/kg)

2001.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC50 vapours mg/l)

5.29

Species

Rat

SECTION 12: Ecological Information

12.1. Toxicity



Ecological information on ingredients.

DIMETHYL ETHER

Acute toxicity - fish

LC₅₀, 96 hours: 4001 mg/l, Poecilia reticulata (Guppy)

Acute toxicity - aquatic invertebrates

EC₅₀, 48 hours: 4001 mg/l, Daphnia magna

Acute toxicity - aquatic plants

EC₅₀, 96 hours: 154.9 mg/l, Algae

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT

Acute toxicity - fish

LOEC, : >100 mg/l, Fish

Acute toxicity - aquatic plants

LOEC, : >100 mg/l, Algae

Acute toxicity - microorganisms

LOEC, : >100 mg/l, Activated sludge

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 04/03/2015

Revision 1

SDS number 5260

Hazard statements in full



- H220 Extremely flammable gas.
- H222 Extremely flammable aerosol.
- 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.

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.