

Section 1: Identification of the substance/mixture & of the company / undertaking**1.1 Product identifier****CPO400**

Product Name

Penetrating spray / maintenance spray

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

Identified uses

PC24 penetrant / lubricant spray.

1.3 Details of the supplier of the safety data sheet

Supplier

Specialised Wiring Accessories Ltd
Abbey Mills
Charfield Road
Kingswood
Wotton-Under-Edge
Gloucestershire GL12 8RL

Tel: +44 (0) 01453 844 333 (Monday to Friday 8am to 5.30pm)

Fax: +44 (0) 01453 842 224

E-mail: sales@swaonline.co.uk

Section 2: Hazard identification**2.1 Classification of the substance or mixture****Classification (EC 1272/2008)****Physical hazards** Flam. Aerosol 1 - H222, H229**Health hazards** Not Classified.**Environmental hazards** Not Classified.**Human health**

In high concentrations, vapours and aerosol mists have a narcotic effect

Environment

The product contains a substance which is harmful to aquatic organisms and which may cause long-term adverse effects to the aquatic environment.

Physicochemical Hazards

Aerosol containers can explode when heated, due to excessive pressure build-up. The product is extremely flammable. When sprayed on naked flame or incandescent material the vapours can be ignited.

2.2 Label elements**Pictogram****Signal word**

Danger

Hazard statements

- H222 Extremely flammable aerosol.
- H229 Pressurised container; may burst if heated.

Precautionary statements

- 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 Pressurized container: Do not pierce or burn, even after use.
- P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.
- P102 Keep out of reach of children.
- P260 Do not breathe vapour / spray.
- P271 Use only outdoors or in a well-ventilated area.

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

PETROLEUM GASES, LIQUEFIED; PETROLEUM GAS		Content: 60 - 100%
CAS-No: 68476-85-7	EC No: 270-704-2	
Classification Flam. Gas 1 - H220 Press. Gas, Liquefied - H280		
Odourless Kerosene		Content: 30 - 60%
CAS-No: -	EC No: 926-141-6	REACH Registration Number: 01-2119456620-43
Classification Asp. Tox - H304		
MONOCYCLIC TERPENE		Content: < 1%
CAS-No: 5928-27-5	EC No: 227-813-5	REACH Registration Number: 01-2119529223-47
M factor (Acute) = 1 M factor (chronic) = 1		
Classification Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Aquatic Acute 1 - H400 Aquatic Chronic - H410		

The full text for all hazard statements are displayed in Section 1.6.

Section 4: First aid measures

4.1 Description of first aid measures

General information

Move the affected person to fresh air at once.

Inhalation

In case of inhalation of spray/mist: Move person into fresh air and keep warm and at rest in a position comfortable for breathing. If breathing stops, provided artificial respiration. Keep the affected person warm and at rest. Get medical attention immediately.

Ingestion

Rinse mouth thoroughly with water. Do not induce vomiting. Get medical attention immediately.

Skin contact

Remove contaminated clothing immediately and wash skin with soap and water.

Eye contact

Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

General information

The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

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

Extinguishing media

Extinguish with foam, carbon dioxide, dry powder, or water fog.

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. Extremely flammable. Forms explosive mixtures with air. Vapours are heavier than air and may spread near the ground and travel a considerable distance to a source of ignition and flash back. Containers can burst violently or explode when heated, due to excessive pressure build-up. Extremely flammable. Forms explosive mixtures with air.

5.3 Advice for firefighters

Protective actions during firefighting

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

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures

Personal precautions

Provide adequate ventilation. Use suitable respiratory protection if ventilation is inadequate. Avoid inhalation of vapours.

6.2 Environmental precautions

Avoid the spillage or runoff entering drains, sewers, or watercourses. Contain spillage with sand, earth, or other suitable non-combustible material.

6.3 Methods and material for containment and cleaning up

Eliminate all sources of ignition. No smoking, sparks, flames, or other sources of ignition near spillage. Provide adequate ventilation. Leave small quantities to evaporate, if safe to do so. Do not allow material to enter confined spaces, due to the risk of explosion. Absorb spillage with non-combustible absorbent material.

6.4 Reference to other sections

For personal protection see Section 8. For waste disposal, see Section 13.

Section 7: Handling and storage

7.1 Precautions for safe handling

Read and follow manufacturer's recommendations. Keep away from heat, sparks, and open flame. Eliminate all sources of ignition. Do not spray on a naked flame or any incandescent material.

7.2 Conditions for safe storage, including any incompatibilities

Extremely flammable. Keep away from heat, sparks, and open flame. Store at moderate temperatures in dry, well ventilated area. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

7.3 Specific end use(s)

The identified uses for this product are detailed in Section 1.2

Section 8: Exposure control / personal protection

8.1. Control parameters

Occupational exposure limits

PETROLEUM GASES, LIQUEFIED; PETROLEUM GAS Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1750 mg/m³
Short-term exposure limit (15 minute): WEL 1250 ppm 2180 mg/m³

ODOURLESS KEROSENE Long-term exposure limit (8-hour TWA): OEL 1200 mg/m³

MONOCYCLIC TERPENE Long-term exposure limit (8-hour TWA): No std.

Ingredient Exposure Limits

OEL = Occupational Exposure Limit.

WEL = Workplace Exposure Limit.

Ingredient comments WEL = Workplace Exposure Limit. SUP = Supplier's recommendation

8.2 Exposure controls

Appropriate engineering measures

Provide adequate ventilation. Avoid inhalation of vapours and spray/mist. Observe any occupational exposure limits for the product or ingredients.

Personal protection

Do not eat, drink, or smoke when using this product.

Eye / face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates any eye contact is possible. The following protection should be worn: Chemical splash goggles.

Hand protection

Due to the packaging form, aerosol, risk of skin contact is small. Chemical-resistant imperious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove must be chosen in consultation with the glove's supplier/manufacturer, who can inform about the breakthrough time of the glove material.

Hygiene measures

Wash hands after handling. Wash hands at the end of each work shift and before eating, smoking, and using the toilet. Use appropriate skin cream to prevent defatting and cracking of skin.

Respiratory protection

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	Colourless to pale yellow
Odour	Characteristic
Initial boiling point and range	-40°C to -2°C @ 1013hPA
Flash point	< -40°C
Upper / lower flammability or explosive limits	Lower flammability limit 1.8% - Upper 9.5%
Vapour pressure	ca. 590 to 1760 kPa @45°C
Vapour density	ca. 1.5 at 15°C
Partition coefficient	Log Pow: ca. 2.3 to 2.8
Auto-ignition temperature	410 - 580°C
Comments	Information given is applicable to the major ingredient

9.2 Other information

Volatile organic compound

This product contains a maximum VOC content of 629 g/l

Section 10: Stability and reactivity

10.1 Reactivity

Stable at normal ambient temperatures and when used as recommended.

10.2 Chemical stability

Avoid heat, sparks, and flames.

10.3 Possibility of hazardous reactions

Does not decompose when used and stored as recommended.

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

Avoid contact with oxidising materials, heat, and flames.

10.6 Hazardous decomposition products

Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Toxic and corrosive gases or vapours.

Section 11: Toxicological information

11.1 Information on toxicological effects

Toxicological effects

No information available.

General information

Deliberately concentrating and inhaling the contents of this container is dangerous and can be fatal.

Inhalation

Harmful by inhalation. In high concentrations, vapours and aerosol mists have a narcotic effect and may cause headache, fatigue, dizziness, and nausea. Unconsciousness, possibly death.

Skin contact

Skin irritation should not occur when used as recommended. Repeated exposure may cause skin dryness or cracking.

Eye contact

Irritating to eyes. Spray and vapour in the eyes may cause irritation and smarting. Repeated exposure may cause chronic eye irritation.

Acute and chronic health hazards

Arrhythmia, (deviation from normal heartbeat). In high concentrations, vapours and aerosol mists have a narcotic effect and may cause headache, fatigue, dizziness, and nausea.

Route of entry

Inhalation.

Target organs

Central nervous system. Respiratory system, lungs.

Medical symptoms

Skin irritation. Arrhythmia, (deviation from normal heartbeat). Narcotic effect. Vapours may cause drowsiness and dizziness. Skin irritation. Irritation of eyes and mucous membranes.

Section 12: Ecological information

Ecotoxicity

The product contains a substance which is harmful to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

12.1. Toxicity

Not available.

12.2. Persistence and degradability

Not available.

12.3. Bioaccumulative potential

Bioaccumulative potential - Not available.

Partition coefficient - log Pow: ca. 2.3 to 2.8

12.4. Mobility in soil

Not known.

12.5. Results of PBT and vPvB assessment

Not available.

12.6. Other adverse effects

Not known.

Section 13: Disposal considerations

13.1. Waste treatment methods

General information

Do not puncture or incinerate even when empty.

Disposal methods

Dispose of waste to licensed waste disposal sites in accordance with the requirements of the local Waste Disposal Authority. Containers should be thoroughly emptied before disposal because of the risk of explosion. Empty containers must not be punctured or incinerated because of the risk of explosion.

Section 14: Transport information

General This product is packed in accordance with the Limited Quantity Provisions of CDGCPL2, ADR and IMDG. These provisions allow transport of aerosols of less than 1 litre packed in cartons of less than 30kg gross weight to be exempt from control providing that they are labelled in accordance with the requirements of these regulations to show that they are being transported as Limited Quantities. Aerosols not so packed and labelled must show the following:

14.1 UN Number

UN No. (ADR/RID)	1950
UN No. (IMDG)	1950
UN No. (ICAO)	1950
UN No. (AND)	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/ADR label	2.1
IMDG class	2.1
ICAO Class / division	2.1
AND packing group	2.1

Transport labels**14.4 Packaging 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 bul according to Annex II of MARPOL73/78 and the IBC Code

Section 15: Regulatory information

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

National regulations

EH40/2005 Workplace exposure limits.

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

The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No.1348) (as amended) ("CDG 2009")

The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended).

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).

Commission Regulation (EU) No 2015/830 of 28 May 2015.

Guidance

Workplace Exposure Limits EH40.

Safety Data Sheets for Substances and Preparations.

Approved Classification and Labelling Guide (Sixth edition) L131.

British Aerosol Manufacturers Code of Practice 7th Edition 1999

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

Section 16: Other information

Revision comments Supplemental information added.

Revision date 25 October 2018

Revision 4

SDS No. 10788

SDS status Approved.

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.
- H315 Causes skin irritation.
- H317 May causes allergic skin reaction.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

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.