



## SAFETY DATA SHEET

### Purolene

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

##### 1.1. Product identifier

Product name	Purolene
Product number	7212
Internal identification	GHS22643

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

Identified uses	Industrial Chemical.
Uses advised against	Non specified unless otherwise stated within this MSDS

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

Supplier	Morris Lubricants Castle Foregate Shrewsbury Shropshire SY1 2EL +44 (0) 1743 232200 +44 (0) 1743 353584 sds@morris-lubricants.co.uk
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##### 1.4. Emergency telephone number

Emergency telephone	+44(0)1743 232200 (08.45 - 17.00 GMT)
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#### SECTION 2: Hazards identification

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

###### Classification (EC 1272/2008)

Physical hazards	Flam. Liq. 3 - H226
Health hazards	STOT SE 3 - H336 Asp. Tox. 1 - H304
Environmental hazards	Not Classified

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

**Physicochemical** The product is flammable. Heating will generate vapours which may form explosive vapour/air mixtures. Vapours are heavier than air and may travel along the floor and accumulate in the bottom of containers.

##### 2.2. Label elements

###### Hazard pictograms



Signal word

Danger

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<b>Hazard statements</b>	H226 Flammable liquid and vapour. H336 May cause drowsiness or dizziness. H304 May be fatal if swallowed and enters airways.
<b>Precautionary statements</b>	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P242 Use non-sparking tools. P331 Do NOT induce vomiting. P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P501a Dispose of contents/container to hazardous or special waste collection point.
<b>Contains</b>	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

### 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>Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, &lt;2% aromatics</b>	<b>60-100%</b>
CAS number: 64742-48-9	EC number: 919-857-5
	REACH registration number: 01-2119463258-33-0000
<b>Classification</b>	
Flam. Liq. 1 - H224	
STOT SE 3 - H335	
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

<b>General information</b>	Get medical attention if any discomfort continues.
<b>Inhalation</b>	If spray/mist has been inhaled, proceed as follows. 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.
<b>Ingestion</b>	Get medical attention if any discomfort continues. Do not induce vomiting.
<b>Skin contact</b>	Remove contaminated clothing immediately and wash skin with soap and water.
<b>Eye contact</b>	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.

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

<b>General information</b>	If aspiration into the lungs is suspected, eg when vomiting, admit to hospital immediately.
<b>Inhalation</b>	Upper respiratory irritation. There may be irritation of the throat with a feeling of tightness in the chest. Drowsiness or mental confusion may occur.
<b>Ingestion</b>	May be fatal if swallowed and enters airways.
<b>Skin contact</b>	Prolonged contact may cause redness, irritation and dry skin.

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**Eye contact** Irritation of eyes and mucous membranes.

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

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

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

**Specific hazards** Heat from fire could result in drums bursting The product is flammable, and heating may generate vapours which may form explosive vapour/air mixtures.

**Hazardous combustion products** Oxides of carbon. Oxides of nitrogen. Fire may also create other unidentified organic gases some of which may be toxic.

### 5.3. Advice for firefighters

**Protective actions during firefighting** Control run-off water by containing and keeping it out of sewers and watercourses.

**Special protective equipment for firefighters** Wear self-contained breathing apparatus.

## SECTION 6: Accidental release measures

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

**Personal precautions** For personal protection, see Section 8. In case of spills, beware of slippery floors and surfaces.

### 6.2. Environmental precautions

**Environmental precautions** Contain spillage with sand or earth. Avoid the spillage or runoff entering drains, sewers or watercourses. The product is insoluble in water and will spread on the water surface.

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

**Methods for cleaning up** Contain spillage with sand or earth. Collect spillage for reclamation or disposal in sealed containers via a licensed waste contractor. Avoid water contacting spilled material or leaking containers. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body. In case of spillage on water prevent the spread by use of suitable barrier equipment

### 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. For waste disposal, see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

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### Usage precautions

Avoid spilling. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. All handling to take place in well-ventilated area. Do not breathe vapour. Avoid contact with skin and eyes. Do not spray at high pressure (>3 bar) Provide good ventilation. Operate only on cold and degassed tanks in ventilated premises to avoid risk of explosion. Ground container and transfer equipment to eliminate static electric sparks. Take precautionary measures against static discharges. Do not use compressed air for filling, discharging or handling. Observe good chemical hygiene practices. Do not eat, drink or smoke when using the product.

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

**Storage precautions** Store in tightly-closed, original container in a dry, cool and well-ventilated place.

**Storage class** Flammable liquid storage.

### 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

### 8.2. Exposure controls

#### Protective equipment



#### Appropriate engineering controls

Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients.

#### Eye/face protection

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

#### Hand protection

The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material.

#### Other skin and body protection

Use barrier creams to prevent skin contact.

#### Hygiene measures

Use engineering controls to reduce air contamination to permissible exposure level. Wash promptly with soap and water if skin becomes contaminated.

#### Respiratory protection

No specific recommendations. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.

#### Thermal hazards

Not anticipated under normal conditions of use. The product is combustible if heated excessively and an ignition source is applied.

#### Environmental exposure controls

Do not allow product to contaminate land.

## SECTION 9: Physical and chemical properties

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

**Appearance** Liquid.

**Colour** Colourless.

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<b>Odour</b>	Hydrocarbons.
<b>Odour threshold</b>	Not determined.
<b>pH</b>	Not applicable.
<b>Melting point</b>	<-20°C
<b>Initial boiling point and range</b>	130-213°C @
<b>Flash point</b>	>36°C Tag closed cup.
<b>Upper/lower flammability or explosive limits</b>	Upper flammable/explosive limit: 7 % Lower flammable/explosive limit: 0.6 %
<b>Vapour pressure</b>	3 hPa @ 20°C
<b>Vapour density</b>	Not determined.
<b>Relative density</b>	0.740-0.850 @ 15°C
<b>Solubility(ies)</b>	Insoluble in water. Soluble in the following materials: Organic solvents.
<b>Partition coefficient</b>	Not determined.
<b>Auto-ignition temperature</b>	>200°C
<b>Decomposition Temperature</b>	Not determined.
<b>Viscosity</b>	0.8-2.1 mm <sup>2</sup> /s @ 20°C
<b>Explosive properties</b>	Not considered to be explosive.
<b>Explosive under the influence of a flame</b>	Not considered to be explosive.
<b>Oxidising properties</b>	The mixture itself has not been tested but none of the ingredient substances meet the criteria for classification as oxidising.

### 9.2. Other information

<b>Molecular weight</b>	146
<b>Volatile organic compound</b>	The product is a complex mixture, the majority of which would not be classed as a VOC. However it cannot be discounted that trace or low levels of VOCs may be present.

## **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

<b>Reactivity</b>	There are no known reactivity hazards associated with this product.
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### 10.2. Chemical stability

<b>Stability</b>	Stable at normal ambient temperatures and when used as recommended.
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### 10.3. Possibility of hazardous reactions

<b>Possibility of hazardous reactions</b>	Unlikely to occur under normal conditions of use. Unlikely to occur.
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### 10.4. Conditions to avoid

<b>Conditions to avoid</b>	Avoid heat, flames and other sources of ignition.
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### 10.5. Incompatible materials

<b>Materials to avoid</b>	Strong oxidising agents.
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### 10.6. Hazardous decomposition products

## Purolene

**Hazardous decomposition products** Oxides of carbon.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** Not expected to be highly toxic based on information of ingredients.

##### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** Not expected to be highly toxic based on information of ingredients.

##### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** Not determined.

##### Serious eye damage/irritation

**Serious eye damage/irritation** May cause mild, short lasting discomfort to eyes.

##### Skin sensitisation

**Skin sensitisation** Not expected to be a skin sensitizer based on information on components.

##### Reproductive toxicity

**Reproductive toxicity - fertility** No data available to suggest the product will cause reproductive toxicity.

##### Aspiration hazard

**Aspiration hazard** Kinematic viscosity <= 20.5 cSt @ 40 C Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis. Poses an aspiration hazard.

##### **Inhalation**

High concentrations of vapours may irritate respiratory system and lead to headache, fatigue, nausea and vomiting.

##### **Ingestion**

Swallowing significant quantities may cause discomfort, nausea, diarrhoea and irritation of the digestive tract. Aspiration into the lungs (e.g. through vomiting) after ingestion can be hazardous with possible resultant chemically induced pneumonia. May be fatal if swallowed and enters airways.

##### **Skin contact**

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

##### **Eye contact**

May cause temporary eye irritation.

### SECTION 12: Ecological information

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

#### 12.1. Toxicity

#### 12.2. Persistence and degradability

**Persistence and degradability** 80% (Exposure Time: 28d) Readily Biodegradable

**Biological oxygen demand** Not determined.

**Chemical oxygen demand** Not determined.

#### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.

**Partition coefficient** Not determined.

#### 12.4. Mobility in soil



## Purolene

### Transport labels



#### 14.4. Packing group

ADR/RID packing group	III
IMDG packing group	III
ICAO packing group	III
ADN packing group	III

#### 14.5. Environmental hazards

##### Environmentally hazardous substance/marine pollutant

No.

#### 14.6. Special precautions for user

EmS	F-E, S-D
ADR transport category	3
Emergency Action Code	3Y
Hazard Identification Number (ADR/RID)	30
Tunnel restriction code	(D/E)

#### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

### SECTION 15: Regulatory information

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

<b>National regulations</b>	Health and Safety at Work etc. Act 1974 (as amended). The Pollution Prevention and Control Act 1999. Special Waste regulations 1996. Control of Pollution (Oil Storage) (England) Regulations 2001 The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).
<b>EU legislation</b>	Dangerous Preparations Directive 1999/45/EC. Dangerous Substances Directive 67/548/EEC. 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). 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).
<b>Guidance</b>	Workplace Exposure Limits EH40. Safety Data Sheets for Substances and Preparations.

#### 15.2. Chemical safety assessment



## Purolene

No chemical safety assessment has been carried out.

### Inventories

#### **EU - EINECS/ELINCS**

All the ingredients are listed or exempt.

#### **Canada - DSL/NDSL**

All the ingredients are listed or exempt.

#### **US - TSCA**

All the ingredients are listed or exempt.

#### **Korea - KECI**

All the ingredients are listed or exempt.

#### **China - IECSC**

All the ingredients are listed or exempt.

#### **Philippines – PICCS**

All the ingredients are listed or exempt.

#### **New Zealand - NZIOC**

All the ingredients are listed or exempt.

### **SECTION 16: Other information**

<b>Revision comments</b>	NOTE: Lines within the margin indicate significant changes from the previous revision.
<b>Revision date</b>	18/05/2020
<b>Revision</b>	3
<b>Supersedes date</b>	22/01/2020
<b>SDS number</b>	22643
<b>Risk phrases in full</b>	Not classified.
<b>Hazard statements in full</b>	H226 Flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H336 May cause drowsiness or dizziness.

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.