

## SAFETY DATA SHEET (SDS)

**PRODUCT NAME: OIL - MOBIL SHC 629**

### SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/ UNDERTAKING

#### 1.1 Product identifier

Product name: Mobil SHC 629.  
Other means of identification: None known.  
Item numbers: H11023011, H11023012, H11023016.

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

Identified use: Circulating/gear oil.  
Uses advised against: No data available.

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

##### UK contact details

Edwards, Innovation Drive, Burgess Hill, West Sussex,  
RH15 9TW, United Kingdom

General enquiries  
Tel: +44 (0)8459 212223  
Email: info@edwardsvacuum.com

##### US contact details

Edwards, 6416 Inducon Drive West, Sanborn,  
New York, 14132, USA

General enquiries  
Toll Free: 1-800-848-9800

#### 1.4 Emergency telephone number

Chemtrec: 1-800-424-9300.

### SECTION 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

GHS classification: Mixture.  
Classification according to  
Regulation (EC) No. 1272/2008: Not classified as hazardous.  
Classification according to  
Directive 1999/45/EC: Not classified as hazardous.

#### 2.2 Label elements

Hazard pictograms: Not applicable.  
Signal words: Not applicable.  
Hazard statements: Not applicable.  
Precautionary statements: Not applicable.

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### 2.3 Other hazards

PBT criteria: This product is not, or does not contain, a substance that is a PBT.  
vPvB criteria: This product is not, or does not contain, a substance that is a vPvB.  
Other hazards which do not result in a classification: High-pressure injection under skin may cause serious damage. Excessive exposure may result in eye, skin or respiratory irritation.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Not applicable.

### 3.2 Mixtures

Ingredient	% Weight	CAS No	Hazard class*	Risk phrase / Hazard Statements*
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated	30-<40	68037-01-4	Aspiration hazard	H304 (Asp Tox 1)
Triphenyl Phosphate	0.1-<0.25	115-86-6	Hazardous to the aquatic environment, acute hazard  Hazardous to the aquatic environment, long-term hazard	H400 (M factor 1)  H410 (M factor 1)

\* Hazard class, Risk phrase and Hazard Statements. These columns are only completed for ingredients which are classified as hazardous under EU Directive No 1272/2008 (as amended) and are present in sufficient concentration to make the overall substance hazardous. In all other situations, the column will be completed as "Not applicable".

Full text for the declared risk phrases and hazards statements is given in Section 16.

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### SECTION 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

- Eyes:** Rinse thoroughly with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Remove contact lenses, if present and easy to do so. Seek medical attention if symptoms persist.
- Skin:** Wash contaminated skin with plenty of soap and water. Seek medical attention if symptoms occur.
- If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the extent of the injury.
- Ingestion/Oral:** Thoroughly rinse out mouth with plenty of water. Provide the affected person with 1-2 glasses of water or milk. Never give anything by mouth to an unconscious person. Do not induce vomiting. Seek medical attention if discomfort occurs.
- Inhalation:** Remove affected person to fresh air. If dizziness, nausea or unconsciousness occurs, seek immediate medical assistance.
- If breathing problems occur, a qualified individual should administer Oxygen or artificial respiration as indicated. Seek immediate medical attention.
- General advice:** None.

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

##### Potential acute health effects:

- Eyes:** No data available.
- Skin:** No data available.
- Ingestion / Oral:** No data available.
- Inhalation:** No data available.
- Over-exposure symptoms:**
- Eyes:** No data available.
- Skin:** No data available.
- Ingestion / Oral:** No data available.
- Inhalation:** No data available.
- Other:** Local necrosis as evidenced by delayed onset of pain and tissue damage a few hours after injection.

#### 4.3 Indication of any immediate medical attention and special treatment needed

The need to have special means for providing specific and immediate medical treatment available in the workplace is not expected.

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### SECTION 5. FIRE FIGHTING MEASURES

#### 5.1 Extinguishing media

Suitable extinguishing media: Water fog, foam, dry chemical and Carbon Dioxide (CO<sub>2</sub>).

Unsuitable extinguishing media: Straight streams of water.

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

Fire and explosion hazard: No data available.

Hazardous combustion products: Incomplete combustion products, Oxides of Carbon, smoke, fume, Sulphur Oxides, Aldehydes.

#### 5.3 Advice for fire-fighters

Special precautions for fire-fighters: Approach from upwind. Use water spray to protect personnel and to keep containers and surroundings cool. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply.

Special protective equipment for fire-fighters: Firefighters should wear Self-Contained Breathing Apparatus (SCBA) with full face-piece operated in positive pressure mode.

For Flammability Properties - refer to Section 9.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

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

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate non-essential staff, or those not equipped with individual personal protective equipment. Turn leaking containers leake side up to prevent the escape of the product. Do not touch or walk through spilled material; spilt product constitutes a slip hazard. Avoid contact with skin and eyes. Put on appropriate personal protective equipment (refer to Section 8). Notify relevant authorities in accordance with all applicable regulations.

For emergency responders: Ensure adequate ventilation. Keep away from open flames, hot surfaces and sources of ignition.

#### 6.2 Environmental precautions:

Contain spill before washing area to prevent slip hazard. Eliminate sources of ignition. Prevent product from entering drains, sewers and watercourses. For large spills, dyke ahead of spill for later recovery and disposal.

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

Put on the necessary personal protective equipment; refer to Section 8. Exercise caution; the area of the spill may be slippery. Recover the material by pumping or absorbing onto vermiculite, dry sand, earth or similar inert absorbent. Place spilled material into covered container for disposal. Use a suitable cleaning solution to clean up any remaining product. Dispose of according to applicable local, state and federal regulations. Do not flush into surface water or sanitary sewer system.

In the case of a water spill, immediately confine the spill with booms. Warn other shipping. Remove material from the surface by skimming or with a suitable absorbent. Seek the advice of a specialist before using dispersants.

Spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may influence the action to be taken. For this reason, local experts should be consulted.

Note that local regulations may prescribe or limit action to be taken.

### 6.4 Reference to other sections

Refer to Section 8 for information on personal protective equipment.

Refer to Section 13 for information on disposal considerations.

## SECTION 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Ensure personal protective equipment is used whenever handling the product, refer to Section 8. Handle away from sources of ignition in areas with adequate ventilation. The product can accumulate static charges which may create an ignition source in the form of an electrical spark. When the product is handled in bulk, an electrical spark could ignite any flammable vapours from liquids or residues that may be present, for example, during switch-loading operations. Use proper bonding and/or earthing procedures. However, bonding and earthing may not eliminate the hazard from static accumulation. Consult local applicable standards for guidance. Additional references include; American Petroleum Institute 2003 (Protection Against Ignitions Arising out of Static, Lightning and Stray Currents) or National Fire Protection Agency 77 (Recommended Practice on Static Electricity) or CENELEC CLC/TR 50404 (Electrostatics - Code of practice for the avoidance of hazards due to static electricity).

Avoid eating and drinking in areas where the product is used. Practice good hygiene. Wash hands after use and prior to consuming food and drink.

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

The container choice may affect static accumulation and dissipation. Store in sealed, labelled containers in a cool well-ventilated area, away from sources of ignition and incompatible materials.

### 7.3 Specific end use(s)

No data available.

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### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

Substance	ACGIH - TLV	OSHA - PEL	Occupational Exposure Limits EH40 (UK)
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated	5 mg/m <sup>3</sup> - 8 hr TWA (Thoracic Fraction)	5 mg/m <sup>3</sup> - 8 hr TWA (Thoracic Fraction)	5 mg/m <sup>3</sup> - 8 hr TWA (Thoracic Fraction)
Triphenyl Phosphate	3 mg/m <sup>3</sup> - 8 hr TWA (Thoracic Fraction)	3 mg/m <sup>3</sup> - 8 hr TWA (Thoracic Fraction)	3 mg/m <sup>3</sup> - 8 hr TWA 6 mg/m <sup>3</sup> - STEL (Thoracic Fraction)

#### 8.2 Exposure controls

Appropriate engineering controls: Ensure adequate ventilation, especially in confined areas, that is appropriate to the risk of hazardous decomposition. Apply technical measures to comply with the OELs identified in the table above.

Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions.

Individual protection measures:

Eye/Face Protection: Safety glasses with side shields, safety goggles or face shields in case of splashes.

Hand/Skin Protection: Wear suitable protective clothing such as impermeable gloves (chemical, oil and solvent resistant), overalls/coveralls and safety shoes appropriate to the risk at the specific workplace.

Respiratory Protection: When potentially exposed to hazardous decomposition products or where engineering controls do not maintain airborne contaminant concentrations at an adequate level, use a personal respirator or approved filter operated in a positive pressure mode that conforms to local and national standards. Air respirators with an escape bottle may be appropriate when Oxygen levels are inadequate, gas/vapour warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

Hygiene Measures: Practice good hygiene. Wash face, hands and any exposed skin thoroughly after handling. Remove all soiled and contaminated clothing. Discard contaminated clothing and footwear that cannot be cleaned. Do not eat or drink while handling the product.

Other/General Protection: None.

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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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

Appearance	Orange liquid	Melting point / freezing point	No data available	°C / °F
Odour	Characteristic	Initial boiling point and boiling range	> 260 / 500 (estimated)	°C / °F
Odour threshold	No data available	Flash point	> 210 / 410	°C / °F
pH	Not applicable	Upper/lower flammability or explosive limits	UEL: 7.0 LEL: 0.9 (estimated)	Approx volume in air (%)
Evaporation rate	No data available	Vapour pressure	< 0.013 @ 20 °C / 68 °F (estimated)	kPa
Flammability (solid, gas)	Not applicable	Vapour density	> 2 @ 101 kPa (estimated)	g/cm <sup>3</sup>
Solubility(ies)	Negligible in water	Relative density	0.852 @ 15 °C / 59 °F	g/cm <sup>3</sup>
Partition coefficient: n-octanol/water	> 3.5 (estimated)	Auto-ignition temperature	No data available	°C / °F
Explosive properties	Not explosive	Decomposition temperature	No data available	°C / °F
Oxidising properties	Not an oxidiser	Viscosity	150 @ 40 °C / 104 °F 20.8 @ 100 °C / 212 °F	cSt

#### 9.2 Other information

Pour Point: -39 °C / -38 °F.

### SECTION 10. STABILITY AND REACTIVITY

#### 10.1 Reactivity

No data available.

#### 10.2 Chemical stability

Stable under normal conditions of use.

#### 10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

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### 10.4 Conditions to avoid

Excessive heat. High energy sources of ignition.

### 10.5 Incompatible materials

Strong Oxidisers.

### 10.6 Hazardous decomposition products

Material does not decompose at ambient temperatures.

## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

Acute toxicity:	Minimally toxic for inhalation, ingestion and skin hazard classes.
Irritation:	Negligible hazard at ambient/normal handling temperatures for inhalation and skin hazard classes.
Corrosivity:	No data available.
Sensitisation:	Not expected to be a respiratory sensitiser. Not expected to be a skin sensitiser.
Repeat dose toxicity:	No data available.
Carcinogenicity:	Not expected to cause cancer.
Mutagenicity:	Not expected to be a germ cell mutagen.
Specific Target Organ Toxicity (STOT) - single exposure	Not expected to cause organ damage from single exposure.
STOT - repeated exposure	Not expected to cause organ damage from prolonged or repeated exposure.
Aspiration hazard	Not expected to be an aspiration hazard based on physio-chemical properties of the material.
Toxicity for reproduction:	Not expected to be a reproductive toxicant.

### Information on likely routes of exposure

No data available.

### Symptoms related to the physical, chemical and toxicological characteristics

Eye Effects:	May cause mild, short-lasting discomfort.
Skin Effects:	Negligible irritation to skin at ambient temperatures.
Ingestion/Oral Effects:	No data available.
Inhalation Effects:	No data available.



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Delayed and immediate effects as well as chronic effects from short and long-term exposure

No data available.

### Other information

The product contains synthetic based oils which are not expected to cause significant health effects under normal conditions of use, based on laboratory studies with the same or similar materials. They are not mutagenic or genotoxic. Not sensitising in test animals and humans.

## SECTION 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

Not expected to be harmful to aquatic organisms.

Not expected to demonstrate chronic toxicity to aquatic organisms.

Aquatic - Chronic Toxicity:

Daphnia magna (Water Flea), 21 days; NOELR 1 mg/l: data for similar materials.

Aquatic - Acute Toxicity:

Oncorhynchus mykiss (Rainbow Trout), 96 hours; LL50 1003 mg/l: data for similar materials.

### 12.2 Persistence and degradability

No data available.

### 12.3 Bioaccumulative potential

No data available.

### 12.4 Mobility in soil

Base oil component has low solubility and floats and is expected to migrate from water to the land. Expected to partition to sediment and wastewater solids.

### 12.5 Results of PBT and vPvB assessment

PBT: This product is not, or does not contain, a substance that is a PBT.

vPvB: This product is not, or does not contain, a substance that is a vPvB.

### 12.6 Other adverse effects

Ecological injuries are not known or expected under normal use.

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### SECTION 13. DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

**Product:** Dispose of the product in compliance with all applicable local and national regulations. Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products. Dispose of oil at designated sites. Do not mix used oils with solvents, brake fluids or coolants.

European Waste Code: 13 02 06.

**Packaging:** Dispose of the packaging in compliance with all applicable local and national regulations.

Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions; empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations.

Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat, flame, sparks, static electricity or other sources of ignition; They may explode and cause injury or death.

### SECTION 14. TRANSPORT INFORMATION

#### 14.1 UN number

ADR/RID	IMDG	IATA	United States DOT
Not applicable	Not applicable	Not applicable	Not applicable

#### 14.2 UN proper shipping name

ADR/RID	IMDG	IATA	United States DOT
Not applicable	Not applicable	Not applicable	Not applicable

#### 14.3 Transport hazard class

ADR/RID	IMDG	IATA	United States DOT
Not applicable	Not applicable	Not applicable	Not applicable

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### 14.4 Packing group

ADR/RID	IMDG	IATA	United States DOT
Not applicable	Not applicable	Not applicable	Not applicable

### 14.5 Environmental hazards

ADR/RID	IMDG	IATA	United States DOT
Not applicable	Not applicable	Not applicable	Not applicable

### 14.6 Special precautions for user

ADR/RID	IMDG	IATA	United States DOT
Not applicable	Not applicable	Not applicable	Not applicable

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

No classified according to Annex II.

## SECTION 15. REGULATORY INFORMATION

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

#### European

This product has been classified in accordance with EU Regulation No 1907/2006 (REACH) on the Classification, Labelling and Packaging of Substances and Mixtures.

Classified as dangerous to supply: No.

German Federal Water Management Act: WGK 1.

#### United States

Materials contained in this product are listed on the U.S. Toxic Substances Control Act (TSCA).

SARA TITLE III - SECTION 313 SUPPLIER NOTIFICATION:

This product does not contain toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) of 1986 and 40 CFR Part 372.

California Proposition 65: This product does not contain chemicals known to the State of California to cause cancer or reproductive toxicity.

#### Canadian

WHMIS Classification: Not WHMIS controlled.

Ingredients in this product are included in the Canadian DSL.

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### 15.2 Chemical safety assessment

No data available.

## SECTION 16. OTHER INFORMATION

This SDS is compiled in accordance with ANSI Z400.1, Regulation (EC) No 1907/2006 (as amended by Regulation No 453/2010) concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) and the Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

### 16.1 Full text of abbreviated statements and phrases

H304                      May be fatal if swallowed and enters airways.  
H400                      Very toxic to aquatic life.  
H410                      Very toxic to aquatic life with long lasting effects.

### 16.2 NFPA / HMIS hazard codes

NFPA Hazard codes		HMIS Hazard codes		Rating System
Health	0	Health	0	0 = No Hazard
Flammability	1	Flammability	1	1 = Slight Hazard
Instability	0	Reactivity	0	2 = Moderate Hazard
				3 = Serious Hazard
				4 = Severe Hazard

### 16.3 Sources of information for this data sheet

- Exxon Mobil "Mobil SHC 629" European Safety Data Sheet. Revision Date: 5th December 2014.
- Exxon Mobil "Mobil SHC 629" German Safety Data Sheet. Revision Date: 16th May 2014.
- Exxon Mobil "Mobil SHC 629" North American Safety Data Sheet. Revision Date: 25th November 2014.
- Exxon Mobil "Mobil SHC 629" Canadian Safety Data Sheet. Revision Date: 2nd October 2012.

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### 16.4 Glossary

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; ANSI - American National Standards Institute; CAS No. - Chemical Abstracts Service number; Chemtrec - Chemical Transportation Emergency Centre (US); CLV - Ceiling Limit Value; DSL - Domestic Substances List; EH40 (UK) - HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA - Emergency Planning and Community Right-to-Know Act; EU European Union; GHS - Globally Harmonized System of Classification and Labelling of Chemicals; HMIS - Hazardous Material Information Service; IATA - International carriage of dangerous goods by air; IBC - International Bulk Chemical; IMDG - International carriage of dangerous goods by sea; LC - Lethal Concentration; LD - Lethal Dose; LEL - Lower Explosive Limit; MARPOL 73/78 - International Convention for the Prevention of Pollution from Ships, 1973 as modified by the protocol of 1978; NFPA - National Fire Protection Association; NOELR - No Observable Effect Loading Rate; OEL - Occupational Exposure Limit; OSHA - Occupational Safety and Health Administration; PBT - Persistent, Bioaccumulative, Toxic chemical; PEL - Permissible Exposure Limit; REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - International carriage of dangerous goods by rail; SARA (Title III) - Superfund Amendments and Reauthorization Act; SARA 313 - Superfund Amendments and Reauthorization Act, Section 313; SDS - Safety Data Sheet; STEL - Short Term Exposure Limit, 15 minute reference period; STOT - Specific Target Organ Toxicity; SCBA - Self-Contained Breathing Apparatus; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act Public Law 94-469; TWA - Time Weighted Average, 8 hour reference period; UEL - Upper Explosive Limit; US DOT - US Department of Transportation; vPvB - Very Persistent, Very Bioaccumulative chemical; WHMIS - Workplace Hazardous Materials Information System.

### 16.5 Revisions:

April 2015 - Initial release.

January 2016 - Contact details updated. Revision date not changed to preserve 2-yearly SDS review date.

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