

SAFETY DATA SHEET (SDS)

PRODUCT NAME : OIL - ROYAL PURPLE SYNFILM GT

1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier

Product name: Royal Purple Synfilm GT Oil
Other means of identification: Synfilm GT Oil
Item numbers: H11031221, H11031222, H11031223, H11031231, H11031232, H11031233

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

Lubricant and corrosion inhibitor.

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

2. Hazards Identification

2.1 Classification of the substance or mixture

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

2.2 Label elements

Hazard pictograms: None.
R-phrases: None.
S-phrases: S3 - Keep cool.
S16 - Keep away from ignition sources.

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2.3 Other hazards

PBT criteria: Not available.

vPvB criteria: Not available.

Other hazards which do not result in a classification: Not available.

3. Composition/Information on Ingredients

3.1 Substances

Not applicable

3.2 Mixtures

| Ingredient | % Weight | CAS No | Hazard class* | Risk phrase / Hazard Statements* |
|--|----------------|----------------|----------------|----------------------------------|
| Synthetic base oil with synthetic additives and iso-paraffinic diluents ** | Not applicable | Not applicable | Not applicable | Not applicable |

*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.

** Ingredients. The base oil composition is proprietary. No ingredients in the product are classified as hazardous.

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. Seek medical attention if symptoms persist.

Skin: Wash with hand cleanser followed by soap and water. Seek medical attention if symptoms persist. Contaminated clothing should be dry cleaned before reuse.

Ingestion/Oral: If swallowed, give plenty of water to drink and seek medical attention. DO NOT give anything to drink to an unconscious person. Do not induce vomiting.

Inhalation: Remove to fresh air and clear air passages. If breathing problems occur, a qualified individual should administer oxygen or artificial respiration. Seek immediate medical attention.

General advice: None.

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4.2 Most important symptoms and effect, both acute and delayed

Potential acute health effects:

| | |
|-------------------------|---|
| Eyes: | May cause irritation. |
| Skin: | May irritate the skin after prolonged periods of contact. |
| Ingestion / Oral: | May cause diarrhoea. |
| Inhalation: | Oil mist may line breathing passages, making breathing difficult. |
| Over-exposure symptoms: | |
| Eyes: | Not available. |
| Skin: | Not available. |
| Ingestion / Oral: | Not available. |
| Inhalation: | Not available. |

4.3 Indication of any immediate medical attention and special treatment needed

Not available.

5. Fire Fighting Measures

5.1 Extinguishing media

| | |
|---------------------------------|--|
| Suitable extinguishing media: | Foam, dry powder, Halon, Carbon Dioxide, sand, earth and water mist. |
| Unsuitable extinguishing media: | Water jets may cause violent frothing. |

5.2 Special hazards arising from the substance or mixture

| | |
|-------------------------------|--|
| Fire and explosion hazard: | Not available. |
| Hazardous combustion products | Smoke, airborne soot, Hydrocarbons, oxides of Carbon, Sulphur, and Nitrogen. Residues mainly composed of soot and mineral oxides. |

5.3 Advice for fire-fighters

| | |
|---|---|
| Special precautions for fire-fighters: | Not available. |
| 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 - see Section 9.

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6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Wear oil-proof gloves and protective overalls.

For emergency responders: Not available.

6.2 Environmental precautions:

Stop the leak if it is safe/possible to do so. Use dykes or bunding to prevent spreading. Avoid contaminating sewers, streams, rivers and other water courses with spilled product. Notify the appropriate authorities if significant contamination occurs.

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 area may be slippery. Extinguish all ignition sources and evacuate the area. Absorb material 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.

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.

7. Handling and Storage

7.1 Precautions for safe handling

Ensure Personal Protective Equipment is used whenever handling the product, see Section 8. Avoid eating, drinking and smoking 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

DO NOT store together with food. Store in original, sealed containers protected from direct sunlight in a dry, cool, well ventilated area away from oxidising agents, strong inorganic/organic acids and sources of ignition.

7.3 Specific end use(s)

Not available.

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8. Exposure Controls/Personal Protection

8.1 Control parameters

| Ingredient | ACGIH - TLV | OSHA - PEL | Occupational Exposure Limits EH40 (UK) |
|-----------------|----------------|----------------|--|
| None identified | Not applicable | Not applicable | Not applicable |

8.2 Exposure controls

Appropriate engineering controls: Ensure good ventilation under all working conditions.

Individual protection measures:

Eye/Face Protection: Safety glasses with side shields in case of splashing, especially when applying to moving parts.

Hand/Skin Protection: Wear suitable protective clothing such as oil impermeable gloves and overalls/coveralls appropriate to the risk at the specific workplace.

Respiratory Protection: None required under normal conditions of use. If misting, use a personal respirator and approved hydrocarbon filter that conform to local and national standards.

Hygiene Measures: Practice good hygiene. Wash face, hands and any exposed skin thoroughly after handling. Immediately remove all soiled and contaminated clothing. Do not eat, drink or smoke while handling the product.

Other/General Protection: None.

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9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

| | | | | |
|--|--------------------------------------|--|------------------|-------------------|
| Appearance | Purple liquid | Melting point / freezing point | Not available | °C / °F |
| Odour | Characteristic | Initial boiling point and boiling range | > 371 / > 700 | °C / °F |
| Odour threshold | Not applicable | Flash point | > 177 / > 350 | °C / °F |
| pH | Neutral | Upper/lower flammability or explosive limits | Not available | °C / °F |
| Evaporation rate | Negligible | Vapour pressure | < 0.1 | kPa |
| Flammability (solid, gas) | Not flammable at ambient temperature | Vapour density | Greater than air | g/cm ³ |
| Solubility(ies) | Insoluble | Relative density | > 0.82 | g/cm ³ |
| Partition coefficient: n-octanol/water | Not available | Auto-ignition temperature | > 315 / > 600 | °C / °F |
| Explosive properties | Not available | Decomposition temperature | Not available | °C / °F |
| Oxidising properties | None | Viscosity | Not available | cSt |

9.2 Other information

Not applicable.

10. Stability and Reactivity

10.1 Reactivity

Not available.

10.2 Chemical stability

Stable under normal conditions of use. No photoreactive agents.

10.3 Possibility of hazardous reactions

Not available.

10.4 Conditions to avoid

Sources of ignition and extreme temperatures.

10.5 Incompatible materials

Strong inorganic and organic acids, oxidizing agents.

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10.6 Hazardous decomposition products

Smoke, airborne soot, Hydrocarbons, oxides of Carbon, Sulphur, and Nitrogen. Residues mainly composed of soot and mineral oxides.

11. Toxicological Information

11.1 Information on toxicological effects

| | |
|---|----------------------------|
| Acute toxicity: | Not available. |
| Irritation: | Very mild skin irritation. |
| Corrosivity: | Not available. |
| Sensitisation: | Not available. |
| Repeat dose toxicity: | Not available. |
| Carcinogenicity: | None. |
| Mutagenicity: | Not available. |
| Specific Target Organ Toxicity (STOT) - single exposure | Not available. |
| STOT - repeated exposure | Not available. |
| Aspiration hazard | Not available. |
| Toxicity for reproduction: | Not available. |

Information on likely routes of exposure

Not available.

Symptoms related to the physical, chemical and toxicological characteristics

| | |
|-------------------------|---|
| Eye Effects: | May cause irritation. |
| Skin Effects: | May irritate skin after prolonged periods of contact. |
| Ingestion/Oral Effects: | May cause diarrhoea. |
| Inhalation Effects: | Oil mist may line breathing passages, making breathing difficult. |

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

Not available.

Other information

Not available.

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12. Ecological Information

12.1 Toxicity

Not available.

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

None.

12.4 Mobility in soil

When released into the environment, absorption to sediment and soil will be the predominant behaviour.

12.5 Results of PBT and vPvB assessment

PBT: Not available.

vPvB: Not available.

12.6 Other adverse effects

Due to its fluid nature and specific gravity, the oil will float and spread across water, making it a nuisance contaminant. It is not thought to be toxic to marine or land organisms.

13. Disposal Considerations

13.1 Waste treatment methods

Product: Dispose of the product in compliance with all applicable local and national regulations.

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

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14. Transport Information

14.1 UN number

| ADR/RID | IMDG | IATA | Canadian TDG | United States DOT |
|----------------|----------------|----------------|----------------|-------------------|
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |

14.2 UN proper shipping name

| ADR/RID | IMDG | IATA | Canadian TDG | United States DOT |
|----------------|----------------|----------------|----------------|-------------------|
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |

14.3 Transport hazard class

| ADR/RID | IMDG | IATA | Canadian TDG | United States DOT |
|----------------|----------------|----------------|----------------|-------------------|
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |

14.4 Packing group

| ADR/RID | IMDG | IATA | Canadian TDG | United States DOT |
|----------------|----------------|----------------|----------------|-------------------|
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |

14.5 Environmental hazards

| ADR/RID | IMDG | IATA | Canadian TDG | United States DOT |
|----------------|----------------|----------------|----------------|-------------------|
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |

14.6 Special precautions for user

| ADR/RID | IMDG | IATA | Canadian TDG | United States DOT |
|----------------|----------------|----------------|----------------|-------------------|
| Not applicable | 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

Not applicable.

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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: Water contaminating class - Not available.

United States

Materials contained in this product are 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 applicable.

Ingredients in this product are included in the Canadian DSL.

15.2 Chemical safety assessment

Not available.

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

| | |
|--------------|---|
| R-phrases(s) | Not applicable. |
| S-phrases(s) | S3 - Keep cool. S16 - Keep away from ignition sources. |

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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

- Royal Purple, Inc. Synfilm GT Material Safety Data Sheet. Revision Date: April 2011.

16.4 Glossary

ACGIH - American Conference of Governmental Industrial Hygienists; ADN - European agreement concerning the international carriage of dangerous goods by inland waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; ATE - Acute Toxicity Estimate; Canadian TDG - Canadian Transportation of Dangerous Goods; CAS No. - Chemical Abstracts Service number; CEN - European Committee for Standardization; Chemtrec - Chemical Transportation Emergency Centre (US); DSL - Domestic Substances List; EC No. - EINECS and ELINCS Number (see also EINECS and ELINCS); EC₅₀ - Median effective concentration; ECHA - European Chemicals Agency; EH40 (UK) - HSE Guidance Note EH40 Occupational Exposure Limits; EINECS - European Inventory of Existing Commercial Substances; ELINCS - European List of Notified Chemical Substances; EPCRA - Emergency Planning and Community Right-to-Know Act; EU European Union; HMIS - Hazardous Material Information Service; IATA - International carriage of dangerous goods by air; IMDG - International carriage of dangerous goods by sea; LC₅₀ - Median lethal concentration; LD₅₀ - Median lethal dose; NFPA - National Fire Protection Association; NIOSH - National Institute for Occupational Safety and Health (US); OECD - Organisation for Economic Co-operation and Development; OEL - Occupational exposure limit; OSHA - Occupational Safety and Health Administration; PBT - Persistent, bioaccumulative, toxic chemical; PEL - Permissible exposure limit; 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; 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; US DOT - US Department of Transportation; vPvB - Very persistent, very bioaccumulative chemical; WHMIS - Workplace Hazardous Materials Information System.

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16.5 Revisions:

April 2010 - Data Sheet updated to reflect the latest supplier safety information.

June 2010 - Data Sheet updated to reflect current regulatory information.

November 2011 - Data Sheet updated with latest items numbers.

February 2012 - Data Sheet updated to reflect latest supplier safety information & current regulatory information.

November 2012 - European and US Contact Details updated.

November 2013 - Data Sheet updated to conform to Regulation (EC) No 1907/2006 (as amended by Regulation No 453/2010) and GHS.

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

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