

## MATERIAL SAFETY DATA SHEET

Product

**Pirtek Defiance Monograde Range**

Page 1 of 8

Date Oct. 2014

Revision 03

### Section 1 Identification of the Substance/Mixture and of Company/ Undertaking

**Supplier:** Pirtek (UK) Limited  
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**Product Name:** Pirtek Defiance Monograde Range  
**Identified Use:** Heavy Duty Diesel engine lubricating oil

**Revision summary:** This Safety Data Sheet has been re-classified in compliance With EU 453/2010 and EC 1272/2008. It replaces revision 02 (May 2011)

### Section 2 Hazards Identification

#### Classification of the mixtures:

#### CLP Classification (EC No. 1272/2008):

A classification has taken place and these products are not classified according to EU legislation.

#### Classification according to Directive (67/548/EEC and 1999/45/EC)

A classification has taken place and these products are not classified according to the above Directive.

#### Label Elements

These products have no hazardous labelling requirements according to EU legislation

#### Other Hazards

Used engine oils may contain hazardous components which have the potential to cause cancer.

### Section 3 Composition/Information on Ingredients

See Section 16 for full text of risk phrases declared overleaf.

See Section 16 for full text of Hazard statements declared overleaf.

## MATERIAL SAFETY DATA SHEET

Product	<b>Pirtek Defiance Monograde Range</b>	Page 2 of 8
Revision 03		Date Oct. 2014

Component	CAS No.	EC No.	Concentration % W/W	CLP Classification	DSD Classification
Zinc alkyldithiophosphate	68649-42-3	272-028-3	0.3-0.6	H315, H318 H411	Xi:N R38,41,51/53
Tetrapropenylphenol		310-154-3	0.08-0.17	H315, H318 H410,H371	Xi;38,41 Xn;Repro. Cat 3 R62,N;50/53
Calcium long chain Alkyl phenate sulphide	Polymer	Polymer	0.3-0.6	H413	R53

### Section 4 First Aid Measures

- Inhalation:** If inhaled, remove to fresh air. If symptoms appear get medical attention.
- Skin:** Wash skin as soon as possible with soap and water. Change contaminated clothing immediately and launder before re-use. Get medical advice if irritation persists.
- Eyes:** Wash out immediately with large amounts of water for at least 15 minutes. Remove any contact lenses. If irritation persists, seek medical advice.
- Ingestion:** Do not give anything by mouth. DO NOT INDUCE VOMITING unless directed by medical personnel. Seek medical attention if symptoms occur.
- First Aiders:** No action should be taken involving any personal risk or without suitable training.

Most important symptoms and effects:  
See Section 11 for more detailed information on health effects and symptoms.

### Section 5 Fire Fighting Measures

**Suitable Extinguishing Media:**

In case of fire use Alcohol-resistant foam, dry chemical or carbon dioxide.

**Unsuitable Extinguishing media:**

Do not use water jets.

**Special hazards arising from the substance or mixture:**

Packaged product in a fire or if heated may cause the container to burst because of the increase in pressure. Hazardous combustion products: Combustion may yield smoke, carbon monoxide, and other products of incomplete combustion. Oxides of nitrogen and sulphur may also be formed.

## MATERIAL SAFETY DATA SHEET

Product	<b>Pirtek Defiance Monograde Range</b>	Page 3 of 8
Revision 03		Date Oct. 2014

### Advice for Fire-fighters

No action should be taken involving any personal risk or without suitable training. The area should be isolated by removing all persons in the vicinity of the fire. Fire fighters should wear appropriate protective equipment and self contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

### Section 6 Accidental Release Measures

#### Personal Precautions:

Spilt product presents a significant slip hazard. Avoid exposure of the product to sources of ignition. See Section 8 for PPE, if dealing with any spillage Do Not Smoke, avoid inhaling vapours, and avoid contact with skin & eyes. Isolate immediate hazard area and keep unauthorised persons out. It may be necessary to wear respiratory equipment depending upon a risk assessment of the particular situation.

#### Environmental Precautions:

Prevent entry into drains, sewers and water courses. The appropriate authorities should be notified if it has contaminated soil/vegetation. Spillages occurring on water should be removed from the surface using suitable absorbents. If necessary dispose of absorbed residues as described in section 13.

#### Containment and Clean up:

Soak up with inert absorbent and transfer to appropriate waste container. In case of spillage on water contain by a boom and collect by skimming or absorption. In case of soil contamination, remove contaminated soil for remediation or disposal in accordance with local regulations. Dispose of any residue and contaminated material via a licensed waste contractor.

#### Reference to other sections:

See section 4 First Aid and Section 10 Stability & Reactivity.

### Section 7 Handling and Storage

#### Precautions for safe handling:

**Advice on Occupational hygiene:** No smoking, eating or drinking during handling. A high standard of personal hygiene should be maintained, Wash thoroughly after handling. See section 8 for advice on appropriate PPE.

## MATERIAL SAFETY DATA SHEET

Product	<b>Pirtek Defiance Monograde Range</b>	Page 4 of 8
Revision 03		Date Oct. 2014

**Storage:** Store in containers designed to contain this product and ensure the storage area is not close to heat or any sources of ignition. Drums should be stored on their sides preferably under cover, out of direct sunlight, in well ventilated conditions. Containers should be tightly closed and properly labelled. Empty containers retain residue and may be dangerous, do not pressurise, cut, weld braze, solder, drill, grind or expose such containers to heat, sparks, flame or other sources of ignition. All containers should be disposed of in an environmentally safe manner in accordance with the appropriate disposal of hazardous waste regulations.

### Section 8 Exposure controls/Personal Protection

**Control Parameters:** Workplace Exposure Limits (WEL) have not been assigned

**Derived No effect Level:** No DELs available

**Predicted no effect Concentration:** No PNEC available

**Exposure Controls.**

**Appropriate Engineering Controls:**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits.

All activities involving chemicals should be assessed for their risks to health, to ensure exposures are adequately controlled. Personal protective equipment should only be considered after engineering controls and other forms of control measures have been suitably evaluated. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained.

The final choice of PPE will depend upon a risk assessment.

**Hygiene Measures:** Wash hands, forearms and face thoroughly after using chemical products, before eating, smoking and using the lavatory and at the end of the working period.

**Respiratory protection:** Unlikely to be required in normal use but ensure good ventilation. However, where concentration in air may be excessive a full assessment of the working conditions will be necessary.

**Eye Protection:** Chemical grade eye protection approved to BS EN 166 is recommended at all times.

**Skin Protection:** Hand & skin protection is recommended at all times where exposure is likely.

## MATERIAL SAFETY DATA SHEET

Product	<b>Pirtek Defiance Monograde Range</b>	Page 5 of 8 Date Oct. 2014
Revision 03		

Protective clothing must be worn, including PVC or nitrile gloves to BS EN 374 with a breakthrough time of >360 minutes.

Suggestions provided in this section for exposure control and specific types of PPE are based on readily available information.

Users should consult with the specific manufacturer to confirm the performance of their PPE specific situations may require consultation with industrial hygiene, safety, or engineering professionals.

### Section 9 Physical and Chemical Properties

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

	Pirtek Defiance Monograde Range				
	10W	20W-20	30	40	50
Appearance	Amber	Amber	Amber	Amber	Amber
Odour	Slight	Slight	Slight	Slight	Slight
Viscosity Index	116	108	103	96	97
Pour Point (°C)	-33	-30	-30	-24	-18
Flash Point (°C)	198	206	203	210	217
Autoflammability (°C)	No Data	No Data	No Data	No Data	No Data
Viscosity @ 100°C mm <sup>2</sup> C	5.49	7.73	9.36	13.15	17.00
Viscosity @ 40°C mm <sup>2</sup> C	30.69	53.89	73.60	127.69	186
Density Kg/m <sup>3</sup>	870.4	878.9	878.9	878.9	900
Water Solubility	Insoluble	Insoluble	Insoluble	Insoluble	Insoluble

### Section 10 Stability and Reactivity

<b>Reactivity:</b>	No dangerous reactions known
<b>Conditions to Avoid:</b>	Ignition sources, excessive heat
<b>Incompatible materials:</b>	Oxidising materials
<b>Chemical Stability:</b>	The product is chemically stable under normal conditions of use
<b>Decomposition Products:</b>	Thermal decomposition may lead to the formation of a multiplicity of compounds some of which may be hazardous. With incomplete combustion smoke and hazardous fumes and gases, including carbon monoxide may be formed. However, under normal condition of use hazardous decomposition products will not be produced.
<b>Possibility of Hazardous Reactions:</b>	None Known

## MATERIAL SAFETY DATA SHEET

Product	<b>Pirtek Defiance Monograde Range</b>	Page 6 of 8
Revision 03		Date Oct. 2014

### Section 11 Toxicological Information

#### Information on Toxicological Effects:

<b>Exposure Routes:</b>	Dermal, Inhalation. Vapour inhalation under normal ambient conditions is not normally a problem because of low vapour pressure.
<b>On Eyes:</b>	May cause transient irritation, but no known significant effects or critical hazards.
<b>On Skin:</b>	Unlikely to cause harm on brief or occasional contact. No known significant effects or critical hazards. However, prolonged and repeated contact can defat the skin and lead to irritation and/or Dermatitis
<b>Sensitisation:</b>	No Evidence of skin or respiratory sensitisation.
<b>By Inhalation:</b>	Low volatility makes inhalation unlikely at ambient temperatures.
<b>By Ingestion:</b>	May cause nausea, vomiting and diarrhoea.

#### Potential Chronic Health effects

Used engine oils may contain hazardous components which have the potential to cause skin cancer. Frequent or prolonged contact with all types of used engine oils must therefore be avoided and a high standard of personal hygiene maintained.

<b>Carcinogenicity:</b>	No known significant effects or critical hazards.
<b>Mutagenicity:</b>	No known significant effects or critical hazards.
<b>Fertility effects:</b>	No known significant effects or critical hazards.
<b>Development effects:</b>	No known significant effects or critical hazards.

### Section 12 Ecological Information

<b>Environmental hazards:</b>	Not classified as dangerous.
<b>Persistence:</b>	Inherently biodegradable
<b>Bioaccumulative potential:</b>	Not expected to bioaccumulate through food chains in the environment.
<b>Mobility:</b>	Spillages may permeate the soil causing ground water contamination.
<b>PBT:</b>	No PBT Chemicals present
<b>vPvB:</b>	No vPvB chemicals present

## MATERIAL SAFETY DATA SHEET

Product	<b>Pirtek Defiance Monograde Range</b>	Page 7 of 8 Date Oct. 2014
Revision 03		

### Other adverse effects:

Spills may form a film on water surfaces causing physical damage to organisms.

Oxygen transfer could also be impaired.

PBT – (Persistent, Bioaccumulative and Toxic)

vPvB – (Very persistent and very bioaccumulative)

## Section 13 Disposal Considerations

### Methods of disposal:

Place used and contaminated materials/packaging in suitable containers. Dispose of the waste in accordance with Duty of Care regulations (Environmental Protection Act 1990-Section 34(7)) using a licensed waste disposal company. The product is subject to The Hazardous Waste Regulations 2005. Waste packaging should be recycled if feasible before incineration or landfill are considered.

**EWC waste code:** 13 02 05 – Mineral based non-chlorinated engine, gear and lubricating oil.

### Special Precautions:

This material and its container must be disposed of in a safe way. Never weld, solder, or braze empty containers. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## Section 14 Transport Information

Classification for transport: Not classified as hazardous for transport.

UN Number:	Not regulated	Packaging Group:	N/A
Shipping Name:	Not regulated	Marine Pollutant:	NO
IMO Class:	Not regulated	ICAO/IATA:	N/A
ADR/RID:	Not regulated		

## Section 15 Regulatory Information

### Health, Safety & Environmental Regulations pertaining to the product:

EC 1272/2008 – Classification, Labelling and Packaging of Substances & Mixtures

EN 166:2002 – Eye Protection

EN 529:2005 – Respiratory Protective Devices

BS EN 374-1:2003 Protective gloves against chemicals and micro-organisms

Workplace Exposure Limits, (EH40/2005), Control of Substances Hazardous to Health

Directive 91/689/EEC on Hazardous Waste (European Waste codes)

Directive 2000/76/EC on the incineration of waste

Directive 1999/31/EC on Landfill of waste

No Formal chemical safety assessment has been carried out.

## MATERIAL SAFETY DATA SHEET

Product

**Pirtek Defiance Monograde Range**

Page 8 of 8

Date Oct. 2014

Revision 03

### Section 16 Other information

The data and advice given apply when the product is sold for the stated application or applications. The product is not sold as suitable for any other application. Use of the product for any applications other than that as stated in this sheet may give rise to risks not mentioned in this sheet. You should not use the product other than for the stated application or applications without seeking advice from us.

If you have purchased the product for supply to a third party for use at work, it is your duty to take all necessary steps to secure that any person handling or using the product is provided with the information in this sheet.

If you are an employer, it is your duty to inform your employees and others who may be affected by any of the hazards described in this sheet and of any precautions which should be taken.

Full text of H Statements:

- H315 Causes skin irritation
- H318 Causes serious eye damage
- H373 May cause damage to organs through prolonged or repeated exposure
- H410 Very toxic to aquatic life with long lasting effects
- H412 Toxic to aquatic life with long lasting effects
- H413 May cause long lasting effects in the aquatic environment

Full text R phrases:

- R41 Risk of serious damage to eyes
- R38 Irritating to skin
- R62 Possible risk of impaired fertility
- R50/53 Very Toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment
- R51/53 Toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment
- R53 May cause long-term adverse effects in the aquatic environment

The information presented in this Data Sheet is based upon data believed to be accurate when the Data Sheet was prepared however, no warranty of merchantability, fitness for any particular purpose, or any other warranty is expressed or is to be Implied regarding the accuracy or completeness of the information provided above, the results to be obtained from the use of this information, or the product, the safety of this product, or the hazards relating to its use. No responsibility is assumed for any damage or injury resulting from abnormal use or from any failure to adhere to any recommended practices. The information provided above, and the product, are furnished on the condition that the person receiving them shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of their use