



## SAFETY DATA SHEET POWERSTART

### 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME                   POWERSTART  
 PRODUCT NO.                    PSA300, HSA300  
 INTERNAL ID                    C  
 APPLICATION                    Car maintenance product  
 SUPPLIER                        TETROSYL LIMITED  
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### 2 HAZARDS IDENTIFICATION

Extremely flammable. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

CLASSIFICATION                   F+;R12. R66, R67.

#### ENVIRONMENT

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

#### HUMAN HEALTH

See section 11 for additional information on health hazards.

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

| Name          | EC No.    | CAS-No.    | Content | Classification                                    |
|---------------|-----------|------------|---------|---|
| DIETHYL ETHER | 200-467-2 | 60-29-7    | 10-30%  | F+;R12 R19 Xn;R22 R66 R67                         |
| HEXANE-norm   | 203-777-6 | 110-54-3   | <1%     | F;R11 Repr3;R62 Xn;R65,R48/20 Xi;R38 R67 N;R51/53 |
| SHAP 70       | 270-704-2 | 68476-85-7 | 10-30%  | F+;R12.   |

The Full Text for all R-Phrases are Displayed in Section 16

### 4 FIRST-AID MEASURES

#### GENERAL INFORMATION

Remove affected person from source of contamination. Get medical attention immediately!

#### INHALATION

Move injured person into fresh air immediately. Call an ambulance. Be aware that symptoms of lung oedema (shortness of breath) may develop up to 24 hours after exposure. Bring these instructions. Place unconscious person on the side in the recovery position and ensure breathing can take place.

#### INGESTION

Immediately rinse mouth and drink plenty of water or milk. Keep person under observation. Do not induce vomiting. If vomiting occurs, keep head low. Transport immediately to hospital and take these instructions.

#### SKIN CONTACT

Remove contaminated clothing immediately and wash skin with soap and water. Consult a physician for specific advice. Burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital.

#### EYE CONTACT

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Immediately transport to hospital or eye specialist.

**POWERSTART****5 FIRE-FIGHTING MEASURES****EXTINGUISHING MEDIA**

Use fire-extinguishing media appropriate for surrounding materials.

**SPECIAL FIRE FIGHTING PROCEDURES**

Beware, risk of formation of toxic and corrosive gases.

**SPECIFIC HAZARDS**

In case of fire, toxic and corrosive gases may be formed.

**PROTECTIVE MEASURES IN FIRE**

Leave danger zone immediately.

**6 ACCIDENTAL RELEASE MEASURES****PERSONAL PRECAUTIONS**

Wear protective clothing as described in Section 8 of this safety data sheet. In case of spills, beware of slippery floors and surfaces.

**ENVIRONMENTAL PRECAUTIONS**

The product should not be dumped in nature but collected and delivered according to agreement with the local authorities.

**SPILL CLEAN UP METHODS**

For waste disposal, see section 13. When dealing with a spillage, please consult the section relating to suitable protective measures. Absorb spillage with non-combustible, absorbent material. Ventilate well. Prevent discharge of larger quantity to drain.

**7 HANDLING AND STORAGE****USAGE PRECAUTIONS**

Read and follow manufacturer's recommendations. Always remove grease with soap and water or skin cleaning agent, never use organic solvents. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. Do not eat, drink or smoke when using the product.

**STORAGE PRECAUTIONS**

Keep away from heat, sparks and open flame. Store in tightly closed original container in a dry, cool and well-ventilated place.

**STORAGE CLASS**

Flammable liquid storage.

**8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

| Name          | Std | TWA - 8 hrs |                        | STEL - 15 min |                        | Notes |
|---------------|-----|-------------|------------------------|---------------|------------------------|-------|
|               |     |             |                        |               |                        |       |
| DIETHYL ETHER | WEL | 100 ppm     | 310 mg/m <sup>3</sup>  | 200 ppm       | 620 mg/m <sup>3</sup>  |       |
| HEXANE-norm   | WEL | 20 ppm      | 72 mg/m <sup>3</sup>   |               |                        |       |
| SHAP 70       | WEL | 1000 ppm    | 1750 mg/m <sup>3</sup> | 1250 ppm      | 2180 mg/m <sup>3</sup> |       |

WEL = Workplace Exposure Limit.

**PROTECTIVE EQUIPMENT****PROCESS CONDITIONS**

Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash station.

**ENGINEERING MEASURES**

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined workplace exposure limit is not exceeded.

**RESPIRATORY EQUIPMENT**

Wear suitable respiratory protection. Check that mask fits tight and change filter regularly.

**POWERSTART****HAND PROTECTION**

The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material. Protection against this substance requires special consideration.

**EYE PROTECTION**

Wear tight-fitting goggles or face shield.

**OTHER PROTECTION**

Provide eyewash station. AVOID ALL SKIN AND RESPIRATORY CONTACT!

**HYGIENE MEASURES**

Wash contaminated clothing before reuse. Wash at the end of each work shift and before eating, smoking and using the toilet.

**SKIN PROTECTION**

Protection suit must be worn.

**9 PHYSICAL AND CHEMICAL PROPERTIES**

|                  |                |
|------------------|----------------|
| APPEARANCE       | Aerosol Liquid |
| COLOUR           | Water-white    |
| RELATIVE DENSITY | 0.806          |

**10 STABILITY AND REACTIVITY****STABILITY**

No particular stability concerns.

**11 TOXICOLOGICAL INFORMATION****INGESTION**

Harmful: may cause lung damage if swallowed.

**HEALTH WARNINGS**

This chemical can be hazardous when inhaled and/or touched. This chemical may cause skin/eye irritation and burns (corrosive). May cause severe internal injury. Vapour from this chemical can be hazardous when inhaled.

**ROUTE OF ENTRY**

Inhalation. Ingestion. Skin and/or eye contact. Skin absorption.

**12 ECOLOGICAL INFORMATION****ECOTOXICITY**

Dangerous for the environment: May cause long-term adverse effects in the aquatic environment.

**13 DISPOSAL CONSIDERATIONS****GENERAL INFORMATION**

When handling waste, consideration should be made to the safety precautions applying to handling of the product. Only experts should be permitted to carry out disposal of this material.

**DISPOSAL METHODS**

Dispose of waste and residues in accordance with local authority requirements. Absorb spillage with non-combustible, absorbent material.

**14 TRANSPORT INFORMATION****GENERAL**

Full protective clothing should be worn when handling this product.



|                      |          |
|----------------------|----------|
| UK ROAD CLASS        | 2.1      |
| PROPER SHIPPING NAME | AEROSOLS |

**POWERSTART**

|                  |          |                  |                |
|------------------|----------|------------------|----------------|
| UN NO. ROAD      | 1950     | UK ROAD PACK GR. | #              |
| ADR CLASS NO.    | 2.1      | ADR CLASS        | Class 2: Gases |
| ADR PACK GROUP   | #        | ADR LABEL NO.    | 2.1            |
| CEFIC TEC(R) NO. | 20G5F    | RID CLASS NO.    | 2.1            |
| RID PACK GROUP   | #        | UN NO. SEA       | 1950           |
| IMDG CLASS       | 2.1      | IMDG PACK GR.    | #              |
| EMS              | F-D, S-U | MFAG             | See Guide      |
| MARINE POLLUTANT | No.      | UN NO. AIR       | 1950           |
| AIR CLASS        | 2.1      | AIR PACK GR.     | #              |

**15 REGULATORY INFORMATION**

## LABELLING



Extremely Flammable

## RISK PHRASES

|     |   |
|-----|---|
| R12 | Extremely flammable.                                  |
| R66 | Repeated exposure may cause skin dryness or cracking. |
| R67 | Vapours may cause drowsiness and dizziness.           |

## SAFETY PHRASES

|     |   |
|-----|---|
| S2  | Keep out of the reach of children   |
| S9  | Keep container in a well-ventilated place.  |
| S16 | Keep away from sources of ignition - No smoking.  |
| S37 | Wear suitable gloves.   |
| S51 | Use only in well-ventilated areas.  |
| S56 | Dispose of this material and its container to hazardous or special waste collection point.  |
| A1  | Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. |
| A2  | Do not spray on a naked flame or any incandescent material.   |
| S23 | Do not breathe vapour/spray.  |
| S46 | If swallowed, seek medical advice immediately and show this container or label.   |

## DETERGENT LABELLING

|        |                        |
|--------|------------------------|
| >= 30% | Aliphatic hydrocarbons |
|--------|------------------------|

## EU DIRECTIVES

Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EC. System of specific information relating to Dangerous Preparations. 2001/58/EC. 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), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

**16 OTHER INFORMATION**

## REVISION COMMENTS

NOTE: Lines within the margin indicate significant changes from the previous revision.

## ISSUED BY

HS&amp;E Manager.

REVISION DATE 16/03/2006

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**POWERSTART**

## RISK PHRASES IN FULL

|        |   |
|--------|---|
| R11    | Highly flammable.   |
| R12    | Extremely flammable.  |
| R19    | May form explosive peroxides.   |
| R22    | Harmful if swallowed.   |
| R38    | Irritating to skin.   |
| R48/20 | Harmful: danger of serious damage to health by prolonged exposure through inhalation.       |
| R51/53 | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| R62    | Possible risk of impaired fertility.  |
| R65    | Harmful: may cause lung damage if swallowed.  |
| R66    | Repeated exposure may cause skin dryness or cracking.                                       |
| R67    | Vapours may cause drowsiness and dizziness.   |

## DISCLAIMER

The information provided in this document has been compiled on the basis of our current knowledge and is believed to be in accordance with the requirements of the Dangerous Substances Directive, Dangerous Preparations Directive and Safety Data Sheets Directive. The information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any particular conditions or process. The conditions and extent of storage and use of material are outside of our control and within the control of the possessor or user. Consequently it is the responsibility of the possessor or user to satisfy themselves as to the completeness of such information and the suitability of the material for their own particular circumstances, conditions or use.