

# TURBO-K

Issue No: TKRTU 2  
Date: 1 May 2008  
Page: 1 of 6

## MATERIAL SAFETY DATA SHEET

**Manufacturer:** Turbo-K Ltd  
PO Box 232  
Hatfield  
AL10 8JH

**Contact:** Mr Ken Winter (Managing Director)  
**Telephone:** #44 (0) 1727 825734  
**E-Mail(Sales/Admin):** kw@midlandchem.com  
**E-Mail(Technical):** lachdennis@havnet.com  
**Emergency Contact:** Mr Sunil Pathak  
**Emergency Tel:** #44 (0) 1827 722911

### 1. TRADE NAME

Turbo-K- RTU

### 2. HAZARDS IDENTIFICATION.

May cause eye irritation

### 3. COMPOSITION/INFORMATION ON INGREDIENTS.

#### 3i. Chemical composition:

Glycol Ether	1 - 3%
Nonionic/Amphoteric Surfactant	5 - 8%
Demineralised Water	>90%

#### 3ii. Risk Phrases:

Not Classified

#### 3iii. Classification/Symbol:

Not Classified

# TURBO-K

Issue No: TKRTU 2

Date: 1 May 2008

Page: 2 of 6

## 4. FIRST AID MEASURES.

Exposure route	symptom	treatment
Eyes	Irritation	Wash with plenty of water. If Irritation persists, seek medical advice.
Skin	Irritation	Wash with water. An emollient cream may be used if the skin is degraded
Inhalation	n/a	n/a
Ingestion	Discomfort	Do not induce vomiting. Drink plenty of water and seek medical advice.

## 5. FIRE FIGHTING MEASURES.

Specific Hazards	Carbon monoxide & oxides of nitrogen can occur if incomplete combustion occurs.
Extinguishing Media (Small fires)	Dry chemical powder, carbon dioxide, alcohol resistant foam, water spray or fog, sand or earth.
(Large Fires)	Alcohol resistant foam, water spray or fog
Unsuitable extinguishing media	None
Protective Equipment	Full protective clothing and self contained breathing apparatus.

## 6. ACCIDENTAL RELEASE MEASURES.

Safety Precautions	Avoid contact with eyes and skin.
Environmental Procedure	No special requirement
Clean-up Procedure	Dilute to waste with water

# TURBO-K

Issue No: TKRTU 2

Date: 1 May 2008

Page: 3 of 6

## 7. HANDLING AND STORAGE.

- 7.1 Handle in accordance with personal protection procedures outlined under section 8.2.1 below.  
Store in closed containers above 5E Centigrade.  
Turbo-K RTU is not damaged by freezing & thawing.
- 7.2 If Turbo-K RTU has been stored at sub-zero temperatures, ice crystals will have formed. Before use, return the material to a minimum of 5EC & make homogeneous by stirring the liquid or rolling the drum
- 7.3 Turbo-K RTU is suitable for on-line & off-line washing of Gas Turbine Compressors in accordance with our instructions & engine manufacturers guidelines.  
Turbo-K RTU is used NEAT as supplied.

## 8. EXPOSURE CONTROL / PERSONAL PROTECTION.

- 8.1 Turbo-K RTU is safe to handle, and no Exposure Limit Value applies.
- 8.2.1 Normal hygiene is required for standard use as a compressor cleaner. If the possibility of regular contact could give rise to degreasing action or development of an allergic reaction, the use of gloves & goggles should be considered.  
Goggles and gloves are recommended if bulk quantities are being handled on a regular basis.
- 8.2.2 The surfactants contained in Turbo-K RTU comply with all biodegradability criteria laid down in Regulation (EC) No.648/2004 on detergents. Data to support this are held at the disposal of competent authorities of the Member States, and will be made available to them at their request.

## 9. PHYSICAL AND CHEMICAL PROPERTIES.

- |     |              |                            |
|-----|--------------|----------------------------|
| 9.1 | Appearance:  | Pale straw coloured liquid |
|     | Odour:       | Typical Glycol Ether       |
| 9.2 | pH:          | 7.3 ± 0.2                  |
|     | Sp. Gravity: | 1.00 ± 0.1                 |
|     | Solubility:  | Soluble in Water           |
|     | Flash Point: | > 100 degrees Centigrade.  |

# TURBO-K

Issue No: TKRTU 2

Date: 1 May 2008

Page: 4 of 6

## 10. STABILITY & REACTIVITY.

This is a stable formulation

10.1 Conditions to avoid : NONE

## 11. TOXICOLOGICAL PROPERTIES.

This product when used in accordance with instructions presents low chemical hazards. Eye contact may cause soreness, and if not treated promptly, could lead to eye damage.

Ingestion could cause discomfort.

No carcinogenic, mutagenic nor teratogenetic effects have been reported nor are expected from Turbo-K RTU and/nor its constituents.

## 12. ECOLOGICAL INFORMATION.

<b>Basis of assessment</b>	Information supplied by raw material producers, & separate assessments by Independent certified laboratories.	
<b>Mobility</b>	Dissolves in water. If product enters soil, it will be mobile and could contaminate ground water.	
<b>Persistence/ degradability</b>	All components are fully biodegradable	
<b>Bioaccumulation</b>	Unlikely to occur due to metabolism and excretion.	
<b>Acute Toxicity- fish</b> ( <i>Scophthalmus maximus</i> )	96 Hour LC <sub>50</sub>	640mg/litre
<b>-Algae</b> ( <i>Skeletonema costatum</i> )	72 Hour ErC <sub>50</sub>	60 mg/litre
<b>-Crustacea</b> ( <i>Acartia Tonsa</i> )	48 Hour LC <sub>50</sub>	145 mg/litre
<b>Sewage treatment</b>	Dilute with water before disposal. No special treatment is required as the material is readily degraded in sewage treatment plants.	

**NB : TURBO-K does not contain any alkyl phenol ethoxylates, nor any other known oestrogenic, carcinogenic, teratogenic or mutagenic compounds.**

# TURBO-K

Issue No: TKRTU 2

Date: 1 May 2008

Page: 5 of 6

## 13. DISPOSAL CONSIDERATIONS.

**Waste disposal:** Recover if possible. Otherwise dispose to licensed Waste contractor or incinerate.

**Product disposal:** Recover if possible. Otherwise dispose to licensed Waste contractor or incinerate.

**Container disposal:** Recover if possible. Otherwise dispose to licensed Waste contractor or incinerate.

## 14. TRANSPORT INFORMATION.

**UN No :** None Assigned

**Not dangerous for conveyance under:-**

UK road  
RID-ADR  
IMO  
MARPOL  
ICAO

**Special precautions :** NONE

## 15. REGULATORY INFORMATION.

**Classification/Symbol:** None required  
**Hazard :** Irritant to skin and eyes  
**Risk phrases :** None required  
**Safety phrases :** None required  
**Special Information :** None

## 16. OTHER INFORMATION.

Use only as directed as Gas Turbine Compressor Cleaner.

# TURBO-K

Issue No: TKRTU 2

Date: 1 May 2008

Page: 6 of 6

## LEGAL DISCLAIMER.

This safety data sheet is distributed solely for the purpose of the Health and Safety at Work Act 1974 & Regulation 6 of CHIP2: Included under this heading is Article 27 of the Dangerous Substances Directive (67/548/EEC) as amended by the Seventh Amendment (92/32/EEC), Article 10 of Directive 88/379/EEC and the Safety Data Sheets Directive (91/155/EEC, as amended by Directive (93/112/EC). It does not constitute any warranty or guarantee as to the quality, properties, condition or otherwise of the product. It has been prepared from the best knowledge available to the manufacturer and neither the manufacturer nor the distributor shall be liable for any insufficiency or inaccuracy in such information in any case whatsoever.