

TURBO-K

SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

Turbo-K Concentrate 1:4

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1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: Turbo-K Concentrate 1:4

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

Use of the Substance/Mixture: Gas Turbine Compressor Cleaner
Recommended restrictions on use: Reserved for industrial and professional use.

1.3 Details of the supplier of the safety data sheet

Company: TURBO-K International Limited
13A Brindley Close.
Holly Lane Industrial Estate.
Atherstone, Warwickshire CV9 2QZ
United Kingdom

Tel: +44 (0) 1827 722911
Fax: +44 (0) 1827 722919
Email address: info@turbo-k.biz
Web: www.turbo-k.biz

For North America: Roselli Chemicals Inc.
1568 Merivale Road, Suite 712, Ottawa, Ontario, Canada K2G 5Y7
Tel: +1 289 366 1662
Web: www.rosellichemicals.com

1.4 Emergency telephone number

UK and Europe: +44 (0) 1827 722911
North America: +1 289 366 1662

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CHIP): Xi: R36.
Classification (CLP): Eye Dam. 1: H318; -: EUH066 .

Most important adverse effects:
Irritating to eyes.

2.2. Label elements

Label elements under CLP (1272/2008):

Hazard statements: H318: Causes serious eye damage
EUH066: Repeated exposure may cause skin dryness or cracking

Signal words: Danger

Hazard pictograms: GHS05: Corrosion



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Precautionary statements:

P264: Wash hands thoroughly after handling.
P280: Wear protective gloves / eye protection / face protection.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
P233: Keep container tightly closed.
P234: Keep only in original container.

Label elements under CHIP (1999/45/EC):

Hazard symbols:

Xi: Irritant



Risk phrases:

R36: Irritating to eyes.

Safety phrases:

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S23 Do not breathe gas/fumes/vapour/spray
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection

2.3. Other hazards

PBT: This product is not identified as a PBT substance.

SECTION 3: Composition/information on ingredients

3.2. Mixtures 67/548/EEC / 1999/45/EC

Chemical Name	CAS No.	EC No.	Conc. (% w/w)	Classification 67/548/EEC	Classification EC 1272/2008
Dipropylene Glycol Methyl Ether	34590-94-8	252-104-2	5 – 15 %	-	-
Salt of an amino acid derivative*	-	-	5 – 15 %	Xi; R36	Eye Irrit. 1: H319
Aliphatic amine derivative*	-	-	5 – 15 %	Xn; R22: R36	Acute Tox. 4: H302 Eye Dam. 1: H318

Items marked as * are deemed to be confidential as defined in the Dangerous Preparations Directive (1999/45/EC).

SECTION 4. First aid measures

4.1 Description of first aid measures

General advice:

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled:

If breathed in move person into fresh air. If not breathing, give artificial respiration.
Consult a physician.

In case of skin contact:

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes and consult a physician.

If swallowed:

Never give anything by mouth to an unconscious person. Rinse mouth with water.
Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2 and / or in section 11).

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Water spray, Alcohol resistant foam. Carbon dioxide (CO₂). Dry powder.
Cool fire exposed containers with water spray.

5.2. Special hazards arising from the substance or mixture

No data available.

5.3. Advice for firefighters

Wear self-contained breathing apparatus for fire fighting if necessary.

5.4. Further Information

No data available.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.
For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Dipropylene Glycol	34590-94-8	TWA	50 ppm	UK. EH40 WEL - Workplace Exposure Limits
Methyl Ether			308 mg/m ³	

8.2. Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

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Body Protection impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:	Liquid
Colour:	Amber / Pale Straw
Odour:	Mild / Characteristic
Odour threshold:	Not determined.
pH-value at 20 °C:	7.0 – 8.0
Melting point:	Not determined.
Boiling point:	100°C
Flash point:	> 100°C
Flammability (solid, gaseous):	Not applicable.
Auto-ignition temperature:	Not determined.
Decomposition temperature:	Not determined.
Self-igniting:	Not determined.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	Not determined.
Vapour pressure:	Not determined.
Density at 20 °C:	1.010 +/- 0.02 g/cm ³
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with water:	Fully miscible.
oxidizing properties	Not determined.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic at 20 °C:	Not determined.
Kinematic:	Not determined.

9.2 Other information:
No further relevant information available.

SECTION 10: Stability and reactivity

10.1. reactivity
No known hazardous reactions under normal conditions of use.

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
Involvement in fire will produce irritating fumes.

10.4. Conditions to avoid
No additional information.

10.5. Incompatible materials
Strong oxidising agents.

10.6. Hazardous decomposition products
Oxides of carbon.
In the event of fire: see section 5

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity: Not determined.

Primary irritant effect:

on the skin: There may be irritation and redness at the site of contact.

on the eye: There may be irritation and redness. The eyes may water profusely. There may be severe pain. The vision may become blurred. There may be permanent damage.

Sensitization: No sensitizing effects known.

Additional toxicological information:

No further relevant information available.

SECTION 12: Ecological information

12.1 Toxicology

Mixture is not classified as toxic.

12.2 Persistence and degradability

Fully biodegradable (awarded CEFAS gold standard).

12.3 Bioaccumulative potential

No evidence for.

12.4 Mobility in soil

Mixture is not persistent in the environment. Refer to section 12.

12.5 Results of PBT and vPvB assessment

No chemical safety report is required

12.6 Other adverse effects

None.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information

Do not allow product to enter drains.

Offer surplus and non-recyclable solutions to a licensed disposal company.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

Dispose of as unused product.

14. TRANSPORT INFORMATION

14.1. UN number

UN number: -

14.2. UN proper shipping name

Shipping name: -

14.3. Transport hazard class(es)

Transport class: -

14.4. Packing group

Packing group: -

14.5. Environmental hazards

Environmentally hazardous: -

Marine pollutant: -

14.6. Special precautions for user

Tunnel code: -

Transport category: -

Road transport notes This product does not require a classification for transport.

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15. REGULATORY INFORMATION

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

Labelling according to Regulation (EC) No 1272/2008

This safety data sheet is in compliance with the Regulation (EC) N° 1907/2006.

15.2 Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

Other data

The surfactant(s) contained in this preparation complies (comply) with the biodegradability criteria as laid down in Regulation (EC) N° 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them at their direct request or at the request of a detergent manufacturer.

16. OTHER INFORMATION

Revision: This document differs from the previous version in the following areas:

2 - 2.2. Label elements - Label elements under CLP (1272/2008):

Full text of classifications [CLP/GHS]

H302:	Harmful if swallowed
H318:	Causes serious eye damage
H319:	Causes serious eye irritation

Full text of classifications [DSD/DPD]

R22:	Harmful if swallowed
R36:	Irritating to eyes

Further information

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.