

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

Product Use [SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; [SU22] Professional uses: Public domain; [PC35] Washing and cleaning products (including solvent based products); [PROC13] Treatment of articles by dipping and pouring; [PROC11] Non industrial spraying; [PROC19] Hand-mixing with intimate contact and only PPE available; [ERC8a] Wide dispersive indoor use of processing aids in open systems; [ERC8d] Wide dispersive outdoor use of processing aids in open systems;

Description 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 9.00 am - 5.00 pm Mon – Fri
North America: +1 289 366 1662

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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.

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 EC 1272/2008
Dipropylene Glycol Methyl Ether	34590-94-8	252-104-2	5 – 15	-
Salt of an amino acid derivative*	-	-	5 – 15	Eye Irrit. 1: H319
Aliphatic amine derivative*	-	-	5 – 15	Acute Tox. 4: H302 Eye Dam. 1: H318

Non-hazardous components

Demineralised Water	7732-18-5	231-791-2	55 – 85	-
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Items marked as * are deemed to be confidential as defined in CLP, Article 24 and Annex I (1.4.1).

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation Move the exposed person to fresh air.
Eye contact Rinse immediately with plenty of water for 15 minutes holding the eyelids open.
Skin contact Wash off immediately with plenty of soap and water. Remove contaminated clothing.
Ingestion DO NOT INDUCE VOMITING.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system.
Eye contact Irritating to eyes.
Skin contact May cause irritation to skin.
Ingestion Ingestion may cause nausea and vomiting.

4.3. Indication of any immediate medical attention and special treatment needed

Inhalation If you feel unwell, seek medical advice (show the label where possible).
Eye contact Seek medical attention.
Skin contact Seek medical attention if irritation or symptoms persist.
Ingestion If you feel unwell, seek medical advice (show the label where possible).

SECTION 5: Firefighting measures

5.1. Extinguishing media

Use extinguishing media appropriate to the surrounding fire conditions.

5.2. Special hazards arising from the substance or mixture

Burning produces irritating, toxic and obnoxious fumes.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation of the working area. Avoid contact with skin and eyes.

6.2. Environmental precautions

Do not allow product to enter drains. Prevent further spillage if safe.

6.3. Methods and material for containment and cleaning up

Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.

6.4. Reference to other sections

See section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION for further information.

See section 13. DISPOSAL CONSIDERATIONS for further information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Ensure adequate ventilation of the working area. Avoid contact with eyes and skin.

Adopt best Manual Handling considerations when handling, carrying and dispensing.

7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed. Keep in a cool, dry, well-ventilated area.

Store in correctly labelled containers.

7.3. Specific end use(s)

See section 1.2. Relevant identified uses of the substance or mixture and uses advised against for further information.

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

Eyeface 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.

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.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour:	Amber / Pale Straw
Odour:	Characteristic
Odour threshold:	Not determined.
pH-value at 20 °C (Ready to use RTU):	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:	1.0 +/- 0.10 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:	20 +/- 5 Centistokes
Kinematic:	Not determined.

9.2. Other information

Conductivity	No data available
Surface tension	No data available
Gas group	No data 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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Skin corrosion/irritation	May cause irritation to skin.
Serious eye damage/irritation	May cause irritation to eyes.

11.1.4. Toxicological Information

Acute toxicity: Not determined.

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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.

SECTION 14: Transport information

14.1. UN number

The product is not classified as dangerous for carriage.

14.2. UN proper shipping name

The product is not classified as dangerous for carriage.

14.3. Transport hazard class(es)

The product is not classified as dangerous for carriage.

14.4. Packing group

The product is not classified as dangerous for carriage.

14.5. Environmental hazards

The product is not classified as dangerous for carriage.

14.6. Special precautions for user

The product is not classified as dangerous for carriage.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

The product is not classified as dangerous for carriage.

15. REGULATORY INFORMATION

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

COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on 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.

15.2. Chemical safety assessment

No data is available on this product.

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.

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SECTION 16: Other information

Other information

Revision

This document differs from the previous version in the following areas:
3 - 3.2. Mixtures

Text of Hazard Statements

H302: Harmful if swallowed
H318: Causes serious eye damage
H319: Causes serious eye irritation
EUH066: Repeated exposure may cause skin dryness or cracking

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.