

TURBO-K

SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

Turbo-K AF10 Anti Icing Additive

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

1.1 Product identifier

Trade name: Turbo-K AF10 Anti Icing Additive

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

Use of the Substance/Mixture: Antifreeze

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): Not classified as hazardous.

Classification (CLP): Not classified as hazardous.

Most important adverse effects:

Not classified as hazardous.

2.2. Label elements

Label elements under CLP (1272/2008):

Hazard statements: -

Signal words: -

Hazard pictograms: -

Precautionary statements:

P102: Keep out of reach of children.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

Hazard symbols: -

Risk phrases: -

Safety phrases: S2 Keep out of the reach of children.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37 Wear suitable gloves.

2.3. Other hazards

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

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SECTION 3: Composition/information on ingredients

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

Not regarded as a health or environmental hazard under current legislation

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.

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.

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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
Mono Propylene Glycol	57-55-6	TWA	150 ppm 474 mg/m ³	UK. EH40 WEL - Workplace Exposure Limits

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.

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:	Colourless
Odour:	Mild / Characteristic
Odour threshold:	Not determined.
pH-value at 20 °C:	Not determined.
Melting point:	Not determined.
Boiling point:	105°C
Flash point:	> 95°C
Flammability (solid, gaseous):	Not applicable.
Auto-ignition temperature:	Not determined.

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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:	1.040 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 data available.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

no data available.

10.4 Conditions to avoid

no data available.

10.5 Incompatible materials

Acid chlorides, Acid anhydrides, Oxidizing agents, Chloroformates, Reducing agents.

10.6 Hazardous decomposition products

no data available

In the event of fire: see section 5

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Skin corrosion/irritation

Skin Human
Result: Mild skin irritation - 7 d

Serious eye damage/eye irritation

Eyes rabbit
Result: Mild eye irritation

Respiratory or skin sensitisation

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

Additional Information

RTECS: TY2000000
Gastrointestinal disturbance, Nausea, Headache, Vomiting, Central nervous system depression.

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SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish mortality NOEC - Pimephales promelas (fathead minnow) - 52,930 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates mortality NOEC - Daphnia - 13,020 mg/l - 48 h

EC50 - Daphnia magna (Water flea) - > 10,000 mg/l - 48 h

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

no data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

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

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

14.1 UN number

ADR/RID: -

IMDG: -

IATA: -

14.2 UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: -

IMDG: -

IATA: -

14.4 Packaging group

ADR/RID: -

IMDG: -

IATA: -

14.5 Environmental hazards

ADR/RID: no

IMDG: no

IATA: no

14.6 Special precautions for user

no data available

15. REGULATORY INFORMATION

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

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

no data available

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

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16. OTHER INFORMATION

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

Not applicable.

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.