



SAFETY DATA SHEET

Tornado Clean

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

PRODUCT NAME	Tornado Clean
PRODUCT NO.	24
APPLICATION	Cleaning agent
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2 HAZARDS IDENTIFICATION

Not regarded as a health or environmental hazard under current legislation.

ENVIRONMENT

The product is not expected to be hazardous to the environment.

PHYSICAL AND CHEMICAL HAZARDS

Considering the limited amount applied during use and the size of the container, the risk of adverse effects is considered small.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
FATTY ALCOHOL ETHOXYLATE		68439-46-3	1-5%	Xn;R22. Xi;R41.
NEUTRALISED DODECYL BENZENE SULPHONIC ACID			5-10%	Xi;R36/38.
SODIUM ALKYLEETHER SULPHATE		13150-00-0	1-5%	Xi;R36/38.
Tetrapotassium Pyrophosphate		7320-34-5	5-10%	Xi;R36.

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

4 FIRST-AID MEASURES

INHALATION

Move into fresh air and keep at rest. Get medical attention if any discomfort continues.

INGESTION

Rinse mouth thoroughly. Drink plenty of water. Get medical attention if any discomfort continues.

SKIN CONTACT

Rinse with water. Get medical attention if any discomfort continues.

EYE CONTACT

Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Contact physician if discomfort continues. Make sure to remove any contact lenses from the eyes before rinsing.

5 FIRE-FIGHTING MEASURES

Tornado Clean

EXTINGUISHING MEDIA

This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.

SPECIFIC HAZARDS

Oxides of: Carbon. Nitrogen.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

For personal protection, see section 8.

ENVIRONMENTAL PRECAUTIONS

Do not discharge onto the ground or into water courses.

SPILL CLEAN UP METHODS

Large Spillages Absorb in vermiculite, dry sand or earth and place into containers. Flush area clean with lots of water. Be aware of potential for surfaces to become slippery. Do not contaminate water sources or sewer. Small quantities may be flushed to drains with plenty of water.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Read and follow manufacturer's recommendations. Avoid spilling, skin and eye contact.

STORAGE PRECAUTIONS

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

STORAGE CLASS

Chemical storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

PROTECTIVE EQUIPMENT



PROCESS CONDITIONS

Provide eyewash station.

ENGINEERING MEASURES

Provide adequate general and local exhaust ventilation.

RESPIRATORY EQUIPMENT

If ventilation is insufficient, suitable respiratory protection must be provided.

HAND PROTECTION

For prolonged or repeated skin contact use suitable protective gloves. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

EYE PROTECTION

Wear splash-proof eye goggles to prevent any possibility of eye contact.

OTHER PROTECTION

Wear appropriate clothing to prevent repeated or prolonged skin contact.

HYGIENE MEASURES

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Liquid

COLOUR

Light (or pale)

ODOUR

Characteristic

SOLUBILITY

Soluble in water Miscible with water.

BOILING POINT (°C)

~ 100

MELTING POINT (°C)

~ 0

Tornado Clean

RELATIVE DENSITY ~ 1.000 (20°C) pH-VALUE, CONC. SOLUTION 7

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions and recommended use.

CONDITIONS TO AVOID

Avoid excessive heat for prolonged periods of time.

HAZARDOUS DECOMPOSITION PRODUCTS

Fire creates: Carbon monoxide (CO). Carbon dioxide (CO₂).

11 TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION

No significant health hazards when used for designed purpose and application and when used in accordance with instructions.

INHALATION

May cause irritation to the respiratory system.

INGESTION

May cause discomfort if swallowed.

SKIN CONTACT

May cause defatting of the skin, but is not an irritant.

EYE CONTACT

May cause severe irritation to eyes.

HEALTH WARNINGS

Because of quantity and composition, the health hazard is small. Serious long-term effects are not known to be related to this type of product.

Other Health Effects

This substance has no evidence of carcinogenic properties. IARC Not Listed. OSHA Not Regulated. NTP Not Listed.

MEDICAL SYMPTOMS

No specific symptoms noted, but this chemical may still have adverse health impact, either in general or on certain individuals.

12 ECOLOGICAL INFORMATION

ECOTOXICITY

Not regarded as dangerous for the environment. The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

DEGRADABILITY

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.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.

WATER HAZARD CLASSIFICATION

WGK 2

13 DISPOSAL CONSIDERATIONS

GENERAL INFORMATION

The packaging must be empty (drop-free, when inverted)

DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements. Recover and reclaim or recycle, if practical.

14 TRANSPORT INFORMATION

GENERAL

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

UN NO. ROAD

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ADR CLASS

Not dangerous according to ADR.

15 REGULATORY INFORMATION

Tornado Clean

RISK PHRASES

NC Not classified.

SAFETY PHRASES

P13 Safety data sheet available for professional user on request.

S25 Avoid contact with eyes.

S35 This material and its container must be disposed of in a safe way.

S51 Use only in well-ventilated areas.

16 OTHER INFORMATION

GENERAL INFORMATION

Only trained personnel should use this material. This product has been manufactured under ISO 9001 and ISO 14001 Quality and Environmental Management Systems.

REVISION DATE 11/04/2008

REV. NO./REPL. SDS GENERATED 1

RISK PHRASES IN FULL

R22 Harmful if swallowed.

R36 Irritating to eyes.

R36/38 Irritating to eyes and skin.

R41 Risk of serious damage to eyes.

DISCLAIMER

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 process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.