

Tough Technology Products Ltd

PRODUCT SAFETY DATA SHEET

1. Identification of the Substance/Preparation & Supplier.

Product Name: Wheels
Product Type: Acid Cleaner/Descaler
Supplier: Tough Technology Products Ltd, 379 Washway Road, Sale, Cheshire, M33 4FJ
Emergency information: Emergency phone number (Office hours only): 0161 9699939 / 07785257565
Fax no: 0161 9699939

2. Hazards Identification.

Hazard designation:
Xi Irritant

Information pertaining to particular dangers for man and environment:
R36/38: Irritating to Eyes and Skin

Classification system:

The health and environmental hazards of this preparation have been assessed by the conventional method described in annex II and III of the preparations Directive 1999/45 EC.

3. Composition/Information on Ingredients.

Dangerous components:

Hazardous component:	EINECS	Cas No.	Index	Risk Phrases:	Concentration:
Sulphuric Acid	231-639-5	7664-93-9	C	R35	<10%
Ammonium Bi-Fluoride	215-676-4	1341-49-7	T, C	R25, R34	<1%

Additional Information: For the wording of the listed risk phrases refer to section 16.

4. First Aid Measures.

Immediate medical attention is required.

Eye Contact: Flush with plenty of clean water for at least 15 minutes. If irritation persists obtain medical attention.

Skin Contact: Wash off with water for 15 minutes. Remove any contaminated clothing and wash before re-use. Obtain medical attention if irritation persists or blistering occurs.

Inhalation: Remove to fresh air, if symptoms persist, seek medical advice.

Ingestion: Rinse mouth with water. Water to drink may be beneficial. Do not induce vomiting without medical advice.

5. Fire Fighting Measures:

Suitable Extinguishing Media: Foam, Dry Powder, Co2, Halon, fine water spray suitable appropriate to other materials involved in and/or to the circumstances of the fire.

Unsuitable Extinguishing Media for Reasons of Safety: None

Special Hazards caused by the material, its products of combustion or flue gases: Not normally combustible. If involved in a fire, or if heated, corrosive/toxic fumes can be released. Can react with aluminium, lead, tin, magnesium or zinc to produce hydrogen gas. Can react vigorously with strong alkalis evolving heat.

Protective Equipment: Fire fighters should enter wearing breathing apparatus and full body protective clothing.

6. Accidental Release Measures.

Personal safety precautions: Wear protective equipment. Keep unprotected persons away. Use protective clothing, chemical eye goggles and PVC or rubber gloves.

Measures for environmental protection: Inform authorities in case of contamination of water or sewage system.

Methods for cleaning/collecting: Do not allow product to soak into drains or water courses. Small spills - may be washed away with water, avoid splashing. May be neutralised with care using dilute alkali or soda. Large spills should be contained by sand or earth and neutralised prior to washing away or absorption and disposal. Dispose only in accordance with Local Authority regulations, via authorised waste disposal agent.

7. Handling and Storage.

Handling: Avoid contact with skin and eyes. Observe good standards of industrial hygiene. Avoid inhalation of vapour and spray mist.

Information for safe handling: Keep in tightly closed containers. Ensure adequate ventilation. Wear full protective clothing. Take note of emission threshold.

Storage:

Requirements to be met by storerooms and containers: Store between 10-35°C. Store in original tightly closed containers.

Information about storage in a common storage facility: Do not store in extremes of temperature or near foodstuffs.

Specific Uses: To be used as an acid cleaner.

8. Exposure Controls/Personal Protection.

Exposure limit values:

<u>Ingredient Name</u>	<u>8hr TWA</u>	<u>15min STEL</u>
Ammonium Bifluoride	WEL	2.5mg/m3

Occupational exposure controls:

Respiratory Protection: Not normally required. Avoid breathing fumes or vapours.

Eyes: Chemical eye goggles should be worn. Eye baths should be provided.

Hand: PVC or rubber gloves are recommended. Clean industrial overalls should be worn.

Skin: Use protective clothing. Remove contaminated clothing and wash with soap and water. Take care to avoid splashing.

Environmental exposure controls:

Dispose only in accordance with Local Authority regulations, via authorised waste disposal agent.

Wheels	REVISION 0	26.08.2008	Page 2
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9. Physical and Chemical Properties.

Appearance:	Clear Blue Fluid
Odour:	Bland
pH Neat:	1.5 - 2.5
pH @ 5% in tap water:	1.5 - 2.5 typical
Boiling Point:	100°C
Flammability:	Non-Flammable
Water Solubility:	Totally soluble
Specific Gravity @ 20°C:	1.010 typical
Vapour Pressure:	Water=18mm Hg

10. Stability and Reactivity.

Conditions to Avoid: Naked flames, hot surfaces, other high temperature sources.

Materials to Avoid: Strong oxidising agent.

Hazardous Decomposition: Combustion can produce a variety of compounds including oxides of carbon, water vapour and unidentified organic and inorganic compounds, some of which may be toxic and corrosive. Product is stable under normal conditions.

11. Toxicological Information.

Eyes:	Classified as an eye irritant. Contact with the eyes may give rise to irritation and stinging. No permanent damage if treated immediately.
Skin:	Classified as a skin irritant. Exposure to the skin may give rise to irritation. Prolonged and persistent contact could lead to dermatitis.
Inhalation:	Unlikely to present any significant hazard at ambient temperature. Excessive exposure to mists and vapours caused by atomising systems may cause irritation to eyes and respiratory tract.
Ingestion:	Not regarded as a significant health hazard, likely to arise in normal use. Ingestion of large quantities could cause nausea, breathing difficulties and acidosis convulsions and collapse. Sulphuric Acid LD50 Oral (Rat) >2000mg/kg Ammonium Bifluoride LD50 Oral (Rat) 140mg/kg

12. Ecological Information.

Eco-toxicity: Water based acidic material. If bulk material disposal is not neutralised, toxic effects for fish & bacterium may start below pH 6, increasing with lower pH. This product is an acidic substance and a nutrient for undesirable algae. It could cause severe local damage to flora and fauna.

Mobility: The product should not be allowed to enter drains or watercourses or be deposited where it can affect ground or surface waters. Avoid transfer into the environment.

Persistence and Degradability:

Bio-accumulative Potential:

Wheels	REVISION 0	26.08.2008	Page 3
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13. Disposal Recommendations.

Treat as for spillages. Neutralise with careful addition of Soda Ash.
Product should be disposed of via an authorised waste disposal contractor in accordance with all local and national regulations.
Dispose of empty containers in accordance with local and national regulations.
Advice can be obtained from the Waste Regulation Authority whether special waste regulations apply to this product.

14. Transport Information.

This product is not classified as hazardous for transport.

15. Regulatory Information.

Designation according to EC guidelines:

The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (CHIP).

Hazard Symbol:



Classification:	Xi	Irritant
Risk Phrases:	R36/38:	Irritating to Eyes and Skin
Safety Phrases:	S2:	Keep out of reach of children.
	S26:	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S24/25:	Avoid contact with skin and eyes
	S37/39:	Wear suitable gloves and eye/face protection.

National Regulations:

Regulations which may apply in event of accident:

Control of Major Accident Hazards (COMAH)

Critical quantity values according to the regulations on accidents should be adhered to.

16. Other Information.

Do not mix with other chemicals.

The information provided in this data sheet has been compiled in accordance with the requirements of the Chemicals (Hazard information and packaging) Regulations 2002 (CHIP 3).

This data sheet does not constitute an assessment of the workplace risks as required under the provisions of the Health & Safety at Work act and the Control of Substances Hazardous to Health (COSHH).

R - Phrases relevant to the products hazardous ingredients:

R25:	Toxic if swallowed
R34:	Causes burns
R37:	Irritating to the respiratory system

Wheels	REVISION 0	26.08.2008	Page 4
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Training Advice: Users should be trained in good industrial hygiene practise.

Recommended Restrictions on Use:

Department issuing data specification sheet: Health and Safety Department

Legal Disclaimer:

The information supplied above is based upon the present state of our knowledge of the product at the time of publication. It is given in good faith and no warranty is implied with respect to the specification or quality of the product. The user must satisfy himself that the product is entirely suitable for his purpose.

Wheels	REVISION 0	26.08.2008	Page 5
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