

Product Name TORNADO

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier Name CLEAN PLUS CHEMICALS PTY LTD

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Synonym(s) NOT APPLICABLE • PRODUCT CODE – 398

**Use(s)** TILE CLEANER - CERAMIC TILES, QUARRY PAVERS AND CONCRETE FLOORS CLEANER.

SDS Date 16 February 2011 v0

4 July 2012 v1

#### 2. HAZARDS IDENTIFICATION

#### CLASSIFIED AS HAZARDOUS ACCORDING TO NOHSC/ASCC CRITERIA

**RISK PHRASES** 

R35 Causes severe burns

**SAFETY PHRASES** 

S1/2 Keep locked up and out of reach of children

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

S37/39 Wear suitable gloves and eye/face protection

S45 In case of accident or if you feel unwell seek medical advice immediately (show the label where possible)

CLASSIFIED AS A DANGEROUS GOODS BY THE CRITERIA OF THE ADG CODE

UN No. 1760 DG Class 8 Subsidiary Risk(s) None Allocated

Packing Group III Hazchem Code 2R EPG 8A1

## 3. COMPOSITION/ INFORMATION ON INGREDIENTS

| Ingredient                       | Formula       | CAS No.       | Content   |
|----------------------------------|---------------|---------------|-----------|
| POTASSIUM HYDROXIDE              | КОН           | 1310-58-3     | 10-30%    |
| SODIUM METASILICATE PENTAHYDRATE | Na2SiO3.5H2O  | 10213-79-3    | 1-10%     |
| NON HAZARDOUS INGREDIENTS        | Not Available | Not Available | Remainder |



### 4. FIRST AID MEASURES

Eye If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to

stop by the Poison Information Centre or a doctor, or for at least 15 minutes.

Skin If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue

flushing with water until advised to stop by the Poisons Information Centre or a doctor.

**Inhalation** If inhaled, remove from contaminated area. To protect rescuer, use an Air-line respirator where an inhalation risk

exists. Apply artificial respiration if not breathing.

**Ingestion** For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If swallowed, do

not induce vomiting.

Advice to Doctor CORROSIVE POISONING TREATMENT: Immediate treatment preferably in a hospital is mandatory. In treating

corrosive poisoning. DO NOT INDUCE VOMITING; DO NOT ATTEMPT GASTRIC LAVAGE; and DO NOT ATTEMPT TO NEUTRALISE THE CORROSIVE SUBSTANCE. Vomiting will increase the severity of damage to the oespohagus as the corrosive substance will again come in contact with it. Attempting gastric lavage may result

in perforating either the oesophagus or stomach.

First Aid Facilities Eye wash facilities and safety shower should be available.

## 5. FIRE FIGHTING MEASURES

Flammability Non flammable. May evolve toxic gases if strongly heated to decomposition.

Fire and Explosion Non flammable. May evolve flammable hydrogen gas in contact with some metals.

**Extinguishing** Non flammable. Prevent contamination of drains or waterways.

Hazchem Code None Allocated.

**Spillage** 

## 6. ACCIDENTAL RELEASE MEASURES

If spilt (bulk), contact emergency services if appropriate. Wear splash-proof goggles and PVC/rubber gloves, an Airline respirator (where an inhalation risk exists). Absorb spill with sand or similar and place in sealed containers for disposal. Wash spill site down with water. For small amounts, dilute with water and flush to sewer. Caution: surfaces

may be slippery.

## 7. STORAGE AND HANDLING

**Storage** Store in cool, dry, well ventilated area, removed from acids, combustible materials and foodstuffs. Ensure containers

are adequately labeled, protected from physical damage and sealed when not in use. Check regularly for leaks or

spills.

**Handling** Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact

and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and

smoking in contaminated areas.

## 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

**Exposure Stds** Potassium Hydroxide (Peak limitation)

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TWA: 2.0mg/m3 (Reference: ASCC(AUS))

Biological Limits No biological limit allocated.

Engineering Controls Ensure adequate natural ventilation. Maintain vapour levels below the recommended exposure standard.

**PPE** Wear splash-proof goggles and PVC or rubber gloves, rubber, face shield and coveralls. Where an

inhalation risk exists, wear a type A (organic vapor) respirator.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

AppearanceBROWN THIN LIQUIDSolubility (Water)SOLUBLE

OdourSLIGHT CAUSTIC ODOURSpecific Gravity1.20 TO 1.22

Ph 13.5 – 14.0 Volatiles NOT AVAILABLE

Vapour Pressure NOT AVAILABLE Flammability NON FLAMMABLE

Vapour DensityNOT AVAILABLEFlash PointNOT RELEVANT

Boiling Point 100°C (Approximately) Upper Explosion Limit NOT RELEVANT

Melting Point NOT AVAILABLE Lower Explosion Limit NOT RELEVANT

Evaporation Rate NOT AVAILABLE

## 10. STABILITY AND REACTIVITY

**Chemical Stability** Stable under recommended conditions of storage.

Material to Avoid Incompatible with oxidizing agent (e.g. hypochlorite, peroxide) and strong acids (eg. Hydrochloric

acid).

**Decomposition** May evolve toxic gas if heated to decomposition.

**Hazardous Reactions** Polymerization is not expected to occur.

### 11. TOXICOLOGICAL INFORMATION

**Health Hazard** Corrosive. Use safe work practices to avoid eye or skin contact, spray must generation or inhalation. However

due to the low vapour pressure, an inhalation hazard is not anticipated with normal use.

**Eye** Corrosive . Contact may result in irritation, lacrimation, pain, redness and conjunctivitis. Prolonged contact may

result in possible burns.

**Inhalation** Corrosive- Irritant. Over exposure to mists or vapours (if sprayed) may result in irritation of the nose and throat

with coughing. At high levels nausea, dizziness and headache. Low vapour pressure, considerably reduces

the inhalation hazard.

**Skin** Corrosive . Contact may result in drying the skin, rash, dermatitis and burns.

**Ingestion** Corrosive. Ingestion may result in burns to the mouth and throat, nausea, vomiting, abdominal pain and

diarrhea.

**Toxicity Data** POTASSIUM HYDROXIDE (1310-58-3)

LD50 (Ingestion):273mg/kg(rat)



#### SODIUM METASILICATE PENTAHYDRATE (10213-79-3)

LD50(ingestion): 770mg/kg (mouse) LDLo(Ingestion): 250mg/kg(dog)

LDLo(Intraperitoneal): 200mg/kg(guinea pig)

TDLo(Ingestion):15g/kg(rat)

## 12. ECOLOGICAL INFORMATION

Environment WATER: If released to waterways, alkaline products may change the pH of the waterway. Fish will die if the pH

reaches 10-11 (goldfish 10.9, bluegill 10.5). SOIL: May leach to groundwater with toxic effects on aquatic life as above. ATMOSPHERE: Not expected to reside in the atmosphere. Drops or particles released to atmosphere

should be removed by gravity and/or be rained out.

## 13. DISPOSAL CONSIDERATIONS

Waste Disposal For small amounts absorb with sand, vermiculite or similar and dispose of to an approved landfill site. Contact the

manufacturer for additional information if larger amounts are involved. Prevent contamination of drains and

waterways as aquatic life may be threatened and environmental damage may result.

**Legislation** Dispose of in accordance with relevant local legislation.

#### 14. TRANSPORT INFORMATION

#### CLASSIFIED AS A DANGEROUS GOODS BY THE CRITERIA OF THE ADG CODE

**Shipping Name** CORROSIVE LIQUID, N.O.S.

UN No. 1760 DG Class 8 Subsidiary Risk(s) None Allocated

Packing Group III Hazchem Code 2R EPG 8A1

#### 15. REGULATORY INFORMATION

Poison Schedule Classified as Schedule 6(S6) Poison using the criteria in the Standard for the Uniform Scheduling of Drugs

and Poisons (SUSDP).

All chemicals listed on the Australian Inventory of Chemical Substances (AICS).

## 16. OTHER INFORMATION

#### **Additional Information**

#### **ABBREVIATIONS:**

ADB - Air-Dry Basis.

BEI - Biological Exposure Indice(s)

CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds.

CNS - Central Nervous System.

EINECS - European Inventory of Existing Commercial chemical Substances.

IARC - International Agency for Research on Cancer.

M - moles per litre, a unit of concentration.

mg/m3 - Milligrams per cubic metre.

NOS - Not Otherwise Specified.

NTP - National Toxicology Program.

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OSHA - Occupational Safety and Health Administration.

pH - relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).

ppm - Parts Per Million.

RTECS - Registry of Toxic Effects of Chemical Substances.

TWA/ES - Time Weighted Average or Exposure Standard.

#### **HEALTH EFFECTS FROM EXPOSURE:**

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a Clean Plus Chemicals report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

#### PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this Clean Plus Chemicals report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

#### **Report Status**

This Safety Data Sheet document has been compiled by Clean Plus Chemicals. Further clarification regarding any aspect of this product should contact Clean Plus Chemicals. While Clean Plus Chemicals has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, Clean Plus Chemicals accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

## **End of Report**

## **Prepared By**

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