

PRECISION DYNAMICS INC  
P.O. BOX 1595  
BURLESON, TX 76097  
Phone: 800-388-5818  
Emergency Phone: 1-800-535-5053

**MATERIAL SAFETY DATA SHEET**

**Product Name:** Dynamic Descaler

**1. PRODUCT INFORMATION**

**Supplier Name:** Dynamic Descaler UK Ltd.

**Address:** Florence Road Business Park  
Kelly Bray  
Callington  
Cornwall  
PL17 8EX

**Telephone:** 01579 384584

**Fax:** 01579 384765

**Emergency:** 07771 803009

**Synonyms:** Dynamic Descaler, DD.

**Uses:** Lime Scale, Calcareous Growth and rust remover,  
**Not for Use with Stainless Steel.**

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

<b>MATERIAL OR COMPONENT</b>	<b>Conc.</b>	<b>CAS No.</b>
Hydrogen Chloride, Aqueous	<10%	7647-01-0

**NOTE:** Laboratory tests indicate material to be BIODEGRADABLE.

**3. HAZARDS IDENTIFICATION**

Not Classified under EC Directives.

**4. FIRST AID MEASURES**

**Eye Contact:** On contact with eyes, rinse immediately with plenty of running water. If irritation persists seek medical advice.

Ingestion: If swallowed drink water or milk of magnesia. Do not induce vomiting. Seek medical advice showing the container/label or safety data sheet.

Skin Contact: Wash affected area with plenty of water.

Inhalation: If over exposure occurs leave exposure area immediately. If irritation persists, seek medical attention.

Advice to Doctor: Treat symptomatically

First Aid Facilities: Eye wash facilities should be provided

## **5. FIRE-FIGHTING MEASURES**

Flammability: Non Flammable

Fire and Explosion: Non Flammable. Wear self-contained breathing apparatus for combating fire. Use water fog, water or foam to cool intact containers and nearby storage areas.

Extinguishing: Non-Flammable

Hazchem Code: None Allocated

## **6. ACCIDENTAL RELEASE MEASURES**

Spillage: If spilt (bulk), wear splash-proof goggles, PVC/rubber gloves, coveralls and rube boots. Absorb spill with sand or similar, collect and place in sealable containers for disposal. Prevent spill entering drains or waterways. Caution: slippery when spilt.

## **7. HANDLING AND STORAGE**

Handling: Use safe work practices to avoid eye and skin contact. Observe good personal hygiene. Prohibit eating, drinking or smoking in contaminated areas. Wash hands before eating.

Storage: store in cool, dry, well-ventilated area, removed from oxidising agents, heat sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Large storage areas should have appropriate ventilation systems.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Ventilation: Ensure adequate natural ventilation.

Exposure Standards: An exposure standard has not been allocated to this product.

PPE: Wear splash-proof goggles and PVC or rubber gloves. When using large quantities or where heavy contamination is likely, wear coveralls.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	101°C
Solubility in Water:	Soluble
Specific Gravity: (water=1)	1.045
Vapour Pressure:	20 mmHg @ 20C
Vapour Density: (Air=1)	1.27
Percent Volatile by Volume:	>85% (water)
Appearance:	Amber
Odour:	Almond like smell
pH:	< 2
Evaporation Rate, (butyl acetate = 1):	2
Physical State:	Liquid
Flammability:	Non Flammable
Flash Point:	Not Relevant
Upper Explosion Limit:	Not Relevant
Lower Explosion Limit:	Not Relevant
Auto-ignition Temperature:	Not Available

## 10. STABILITY AND REACTIVITY

Reactivity: Incompatible with oxidising agents.

Decomposition Products: May evolve Carbon Dioxide.

## 11. TOXICOLOGICAL INFORMATION

Health Hazard Summary: Non-Toxic Irritant. This product may present a hazard with direct eye contact, prolonged and repeated skin contact. Chronic effects are not anticipated.

Eye: Irritant. Exposure may result in lacrimation, irritation, pain and redness.

Inhalation: Low Irritant. Over exposure at high levels may result in mucous membrane irritation of the upper respiratory tract (i.e. nose and throat) and coughing. However, due to the

low vapour pressure, adverse health effects are not anticipated under normal conditions of use.

- Skin: Low Irritant. Prolonged and repeated contact may result in drying and de-fatting of the skin with rash and dermatitis.
- Ingestion: Non-Toxic Irritant. Ingestion of large doses may result in nausea, vomiting and gastrointestinal irritation.
- Toxicity Data: Hydrogen Chloride Aqueous (7647-01-0).

## 12 ECOLOGICAL INFORMATION

- Environment: This product is biodegradable. Further ecological information was limited at the time of publishing this data sheet. Appropriate authorities should be approached before release into the environment.

## 13 DISPOSAL CONSIDERATIONS

- Disposal Considerations: The expended/neutralised product is biodegradable and is suitable for disposal via sewerage systems. Prior authorisation should be sought from the relevant water authority. Alternatively absorb with sand, vermiculite or similar and dispose of to an approved landfill site.
- Legislation: Dispose of in accordance with relevant local legislation.

## 14 TRANSPORT INFORMATION

**Not Classified under EC Directives as dangerous goods for transportation by Road, Rail or Sea.**

Transport:

- Hazard Class: NA (Not Classified under EC Directives)  
UN Number: NA (Not Classified under EC Directives)  
Packing Group: NA (Not Classified under EC Directives)  
Danger Labels: Xi (Irritant)  
Hazard identification: NA (Not Classified under EC Directives)  
Transport Category: NA (Not Classified under EC Directives)

## 15 REGULATORY INFORMATION

Hazard: Hazard Group A  
Risk Phrases: R22, R36/38  
Safety Phrases: S2, S24/25, S26, S37/39, S41, S43 (SCBA, WATER, WATER  
FOG, FOAM), S62  
Danger labels: Xi

## 16 OTHER INFORMATION

This is the first issue of a Safety Data Sheet for Dynamic Descaler in the UK and is at Revision State 2.

Revised: 15 MAY 2006.

This product is intended for industrial use only.

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 impossible to prepare a report, which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.