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Safety Data Sheet Turbo Bowl

1. IDENTIFICATION

Synonyms none
 CAS# listed below in Part 3
 Material Use hard surface cleaner & lime scale remover

IN AN EMERGENCY CALL: INFOTRAC 1-800-535-5053

2. HAZARD IDENTIFICATION

GHS Class (Category)	metal corrosion (1)	skin irritation (2)	eye corrosion (1)
Signal Words	WARNING	WARNING	DANGER
Hazard Statements	may be corrosive to metals (H290)	causes skin irritation (H315)	causes serious eye damage (H318)



GHS Precautionary Statements for Labeling

P262 Do not get in eyes, on skin or on clothing.
 P264 Wash thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P280 Wear protective gloves and clothing of neoprene.
 P313 & P333 If skin irritation or rash occurs, get medical advice/attention.

3. COMPOSITION

	CAS NUMBER	%	TLV ppm / mg/m ³	LD ₅₀ (mg/kg) ORAL	LD ₅₀ (mg/kg) SKIN	LC ₅₀ mg/m ³ INHALATION
Hydrochloric Acid (Hydrogen Chloride)	7647-01-0	5-10%	2 / 3	240	>5000	1108
Anionic Surfactant	on request	1-5%	not listed	620	not known	not known
Water	7732-18-5	balance	not toxic	90,000	not toxic	not toxic

NOTE: All colour & scent substances are present at below 0.1%, at which level they are entirely harmless.

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4. FIRST AID

- SKIN:** Wash with plenty of water. Remove contaminated clothing and do not reuse until laundered. Seek medical help promptly if there is persistent itching or redness in the affected area.
- EYES:** Wash eyes with plenty of water, holding eyelids open. Seek medical assistance promptly irritation occurs.
- INHALATION:** Remove from contaminated area promptly. **CAUTION: Rescuer must not endanger himself!** If victim's breathing stops, administer artificial respiration and seek medical aid promptly.
- INGESTION:** Give plenty of water to dilute product. Do not induce vomiting (NOTE below). Keep victim quiet. If vomiting occurs, lower victim's head below hips to prevent inhalation of vomited material. Seek medical help promptly.

NOTE: Inadvertent inhalation of vomited material may seriously damage the lungs. The danger of this is greater than the risk of poisoning through absorption of this relatively low-toxicity product. The stomach should only be emptied under medical supervision, after the installation of an airway to protect the lungs.

5. FLAMMABILITY & FIRE-FIGHTING

- | | |
|--------------------------|--|
| Flash Point | cannot burn |
| Autoignition Temperature | cannot burn |
| Flammable Limits | cannot burn |
| Combustion Products | smoke, part oxidized hydrocarbon fragments; oxides of nitrogen, ammonia, hydrogen chloride |
| Firefighting Precautions | as for materials sustaining fire; firefighters must wear SCBA |
| Static Discharge | cannot accumulate a static charge |

6. ACCIDENTAL RELEASE MEASURES

- Leak Precaution** dike to control spillage and prevent environmental contamination
- Handling Spill** recover free liquid with corrosion-resistant pumps; absorb residue on an inert sorbent, sweep, shovel & store in closed containers for disposal

7. HANDLING & STORAGE

Store and use away from strong alkalis. Never cut, drill, weld or grind on or near this container, whether empty or full. Always replace drum, pail or IBC cap prior to moving the container!

Avoid generating or breathing product vapour or mist. If mist or vapour form in use, install adequate ventilation to clear workplace air. Avoid prolonged contact with skin and wash work clothes frequently. An eye bath and safety shower should be available near the workplace.

Warning: This product is corrosive to skin, eyes & metals. Avoid spillage & handle with care.

8. EXPOSURE CONTROL & PERSONAL PROTECTION

Hydrogen Chloride:

- | | | | |
|-------------|---|------------|------------|
| ACGIH TLV | 2ppm / 3mg/m ³ | ACGIH STEL | not listed |
| OSHA PEL | 5ppm / 7mg/m ³ | OSHA STEL | not listed |
| Ventilation | mechanical ventilation may be required if product mist is created in processing | | |
| Hands | neoprene <u>gauntlet-style</u> gloves – other types also protect; confirm suitability with supplier | | |
| Eyes | safety glasses with side shields plus face shield – always protect the eyes | | |
| Clothing | wear neoprene apron, boots, hat, & long sleeves if there is any danger of splashing, | | |

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9. PHYSICAL AND CHEMICAL PROPERTIES

Odor & Appearance	clear, red liquid with a slight mint odor
Odor Threshold	not known
Vapor Pressure	as for water
Evaporation Rate (<i>Butyl Acetate = 1</i>)	as for water
Vapor Density (air = 1)	0.6 (<i>water vapor</i>); 36.5 (<i>hydrogen chloride</i>) – <i>surfactant is not volatile</i>
Boiling Point	slightly above 100°C / 212°F – <i>hydrogen chloride gas bubbles off as product is heated</i>
Freezing Point	slightly below 0°C / 32°F
Specific Gravity	1.024-1.036 (20/20°C)
Water Solubility	complete
Log P _{o/w} (<i>Octanol/H₂O Partition Coefficient</i>)	not known
Viscosity	not known – <i>thin, mobile liquid</i>
pH	below 1 – <i>strongly acidic</i>

10. REACTIVITY

Dangerously Reactive With	strong alkalis
Also Reactive With	corrodes steel, iron, zinc (galvanized surfaces) aluminum, copper, brass, etc
Chemical Stability	stable; will not polymerize
Decomposes in Presence of	not known
Decomposition Products	none apart from Hazardous Combustion Products
Mechanical Impact	not sensitive

11. TOXICITY INFORMATION

i. ACUTE EXPOSURE

Skin Contact	severely irritating to skin if contact is prolonged
Skin Absorption	yes, slowly; toxic effects unlikely by this route
Eye Contact	may be corrosive to eyes, causing permanent damage, if not removed promptly
Inhalation	vapor or mist irritate the nose, throat and lungs
Ingestion	ingestion corrosive to mouth, throat and stomach – <i>not a route of industrial exposure</i>

ii. CHRONIC EXPOSURE

General	prolonged or repeated exposure to dilute product may cause dermatitis
Sensitizing	not a sensitizer
Carcinogen/Tumorigen	not known to be a tumorigen or a carcinogen in humans or animals
Reproductive Effect	no known effect on humans or animals
Mutagen	not known to be a mutagen or teratogen in humans or animals
Synergistic With	not known
Calculated LD ₅₀ (oral)	4330mg/kg (rat)
Calculated LD ₅₀ (skin)	10,000mg/kg (rabbit)
LC ₅₀ (inhalation)	not known

12. ECOLOGICAL INFORMATION

Bioaccumulation	all components are water soluble & will not bioaccumulate
Biodegradation	anionic surfactant biodegrades readily; degradation rate is unknown hydrochloric acid cannot biodegrade
Abiotic Degradation	not known
Mobility in soil, water	water soluble; moves readily through soil & the water column

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12. ECOLOGICAL INFORMATION, cont'd

Aquatic Toxicity	hydrochloric acid
LC ₅₀ (Fish, 96hr)	pH 3.25-3.5 & pH3.5-3.6 (Lepomis macrochirus) ¹ , pH 4.0 (Oncorhynchus mykiss) ¹
LC ₅₀ (Crustacea, 72hr)	pH 4.92 (Daphnia magna) ¹
EC ₅₀ (Algae, 72hr)	4.7mg/litre (Chlorella vulgaris) ¹
EC ₅₀ (Bacteria)	pH 5.0-5.5 (domestic sewage sludge) ¹

Aquatic Toxicity **anionic surfactant – no aquatic toxicity data is available for this substance**

13. DISPOSAL CONSIDERATIONS

Waste Disposal	do not flush to sewer without dilution – <i>product should be diluted at least 20:1 before flushing.</i> ; biological degradation is probably the best means of disposal
Containers	Drums should be reused. Recondition and pressure test by a licensed reconditioner prior to re-use. Pails must be vented and thoroughly dried prior to crushing and recycling. IBCs (intermediate bulk containers): polyethylene bottle must be pressure tested & recertified at 30 months. Replace at 60 months (5 years). Steel containers must be inspected, pressure tested & recertified every 5 years. Warning: never cut, drill, weld or grind on or near this container, even if empty.

14. TRANSPORT INFORMATION

USA 49 CFR & Canada/International TDG

Product Identification Number

Shipping Name

Classification

Marine Pollution

ERAP Required

UN – 3264

**Corrosive liquid, acidic, inorganic, N.O.S.
(hydrochloric acid)**

Class 8; Packing Group III

not a marine pollutant

No



15. REGULATIONS

Canada DSL	all components on inventory
U.S.A. TSCA	all components on inventory
Europe EINECS	all components on inventory or exempt as polymers (surfactant)

16. OTHER INFORMATION

Date of Preparation **August 2014**

Date of Revision **-**

Prepared for Tomco-Harwel, by **Peter Burszty**

With data from the Registry of Toxic Effects of Chemical Substances (RTECS), Hazardous Substance Data Base (HSDB), Cheminfo (CCOHS), OSHA, IUCLID Datasheets (European Chemical Substance Information System - ESIS), & others sources (below if used), as required/available

(1) European Chemicals Agency (ECHA), dossier on hydrogen chloride:

http://apps.echa.europa.eu/registered/data/dossiers/DISS-a210a35e-757f-6b38-e044-00144f67d031/DISS-a210a35e-757f-6b38-e044-00144f67d031_DISS-a210a35e-757f-6b38-e044-00144f67d031.html

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