

Turbo FM

1 PRODUCT AND COMPANY IDENTIFICATION

Vendor Details:	Merrick Wheelhouse Industrial Solutions 1130 Springtown Road Suite A Alpha, NJ 08865	Supplier Details:	Merrick Wheelhouse Industrial Solutions 1130 Springtown Road Suite A Alpha, NJ 08865
Phone:	800-567-1443	Phone:	800-547-1443
Emergency:	Infotrac 800-535-5053	Emergency:	Infotrac 800-535-5053

2 HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):

Health, Skin corrosion/irritation, 2
Health, Serious Eye Damage/Eye Irritation, 2 A

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: **WARNING**

GHS Hazard Pictograms:



GHS Hazard Statements:

H315 - Causes skin irritation
H319 - Causes serious eye irritation

GHS Precautionary Statements:

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 - Wash ... thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P302+352 - IF ON SKIN: Wash with plenty of soap and water.
P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a POISON CENTER/doctor/...
P321 - Specific treatment (see ... on this label).
P332+313 - If skin irritation occurs: Get medical advice/ attention.
P362 - Take off contaminated clothing.
P501 - Dispose of contents/container to ...

3 COMPOSITION/INFORMATION ON INGREDIENTS

CAS#	Chemical Ingredients: % Chemical Name:
0	Hydrochloride-based Descaling Compound
0	Descaling Accelerator
0	Corrosion Inhibitors and Surfactants
7647-01-0	>10% Hydrochloric acid

4	FIRST AID MEASURES
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Inhalation: If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention. Give oxygen or artificial respiration if needed.

Skin Contact: Promptly flush skin with water until all chemical is removed. Remove contaminated clothing and wash before reuse. Consult a physician if irritation persists.

Eye Contact: Immediately flush eyes with large amounts of water for at least 15 minutes, lifting eyelids occasionally to facilitate irrigation. Get medical attention if irritation occurs and persists.

Ingestion: Do NOT induce vomiting. Drink large quantities of milk, if available.

5	FIRE FIGHTING MEASURES
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Flash Point: N/A

Suitable extinguishing media Water spray, foam, CO2

Specific hazards Wear self contained breathing apparatus and other protective clothing. This material is non-flammable. If exposed to fire from another the chemical source, use extinguishing media suitable for that source.

General fire hazards If possible, fire fighters should contain water contaminated by this material from being discharged to any waterway, sewer or drain to prevent environmental contamination.

6	ACCIDENTAL RELEASE MEASURES
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This material is biodegradable. Wear personal protective equipment. Neutralize with copious amounts of water. Slowly add soda ash mixture to the residue.
This mixture should be 10 pounds of soda ash to 5 gallons of water.

7	HANDLING AND STORAGE
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Handling Precautions: Wear appropriate personal protective equipment. Avoid contact with eyes, skin, or clothing. Ensure adequate ventilation.

Storage Requirements: For safe storage, store between -15°C and 82°C. Store in original tightly sealed container. Store in well ventilated area. Keep out of reach of children.

8	EXPOSURE CONTROLS/PERSONAL PROTECTION
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Personal Protective Equipment: Personal protective equipment

Eye/face protection: Safety glasses with side-shields.
Skin protection: Handle with gloves. Wash and dry hands.
Full contact: Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min
Material tested: Dermatrill (KCL 740 / Aldrich Z677272, Size M)
Body Protection: impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Control of environmental exposure: Do not let product enter drains.

Exposure Limits:

USA OSHA (TWA₅)/PEL):

ACGIH (TWA/TLV):

DFG (MAK):

Respiratory Protection: None needed for normal handling

Protective Gloves: Wear gloves recommended by glove supplier for protection. Gloves should be impermeable to chemicals and oil. Breakthrough time of gloves must be greater than the intended use period.

Eye Protection: Wear safety glasses with non-perforated side shields.

Other Protective Equipment: Protective clothing. Protective boots, if the situation requires.

9	PHYSICAL AND CHEMICAL PROPERTIES
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Appearance: Amber
Spec Grav./Density: 1.06
Boiling Point: 108°C
Vapor Pressure: 20 Torr
pH: <2
Evap. Rate: 2.0

Odor: Citrus
Solubility: Complete
Freezing/Melting Pt.: -17°C
Vapor Density: N/A

10 STABILITY AND REACTIVITY

Chemical Stability: Product is stable under normal conditions.
Materials to Avoid: Do not mix with alkaline products.
Hazardous Decomposition: Not known.
Hazardous Polymerization: None

11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity:

no data available (Hydrochloric acid)

Inhalation: no data available (Hydrochloric acid)

Dermal: no data available (Hydrochloric acid)

Skin corrosion/irritation: Skin - rabbit Result: Causes burns.

Serious eye damage/eye irritation: Eyes - rabbit (Hydrochloric acid) Result: Corrosive to eyes

Respiratory or skin sensitisation: no data available (Hydrochloric acid)

Germ cell mutagenicity: no data available (Hydrochloric acid)

Carcinogenicity:

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification. (Hydrochloric acid)

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Hydrochloric acid)

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available (Hydrochloric acid)

Specific target organ toxicity - single exposure: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation. (Hydrochloric acid)

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available (Hydrochloric acid)

Additional Information:

RTECS: MW4025000

burning sensation, Cough, wheezing, laryngitis, Shortness of breath, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. (Hydrochloric acid)

12 ECOLOGICAL INFORMATION

Information on ecological effects

Toxicity:

Toxicity to fish LC50 - *Gambusia affinis* (Mosquito fish) - 282 mg/l - 96 h (Hydrochloric acid):

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available (Hydrochloric acid)

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: no data available

13	DISPOSAL CONSIDERATIONS
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14	TRANSPORT INFORMATION
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Transportation information provided is for reference only. Customer is urged to consult 49 CFR 100 - 177, IMDG, IATA, EC, United Nations TDG and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping. This product ships non-hazardous.

15	REGULATORY INFORMATION
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Component (CAS#) [%] - CODES

Hydrochloride-based Descaling Compound (0) [n/a%] PROP65

Descaling Accelerator (0) [n/a%] PROP65

Corrosion Inhibitors and Surfactants (0) [n/a%] PROP65

RQ(5000LBS), Hydrochloric acid (7647-01-0) [n/a%] CERCLA, CSWHS, EHS302, EPCRAWPC, HAP, MASS, NJEHS, NJHS, OSHAPSM, OSHAWAC, PA, SARA313, TSCA, TXAIR

This product does not contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

Regulatory CODE Descriptions

RQ = Reportable Quantity
PROP65 = CA Prop 65
CERCLA = Superfund clean up substance
CSWHS = Clean water Act Hazardous substances
EHS302 = Extremely Hazardous Substance
EPCRAWPC = EPCRA water Priority Chemicals
HAP = Hazardous Air Pollutants
MASS = MA Massachusetts Hazardous Substances List
NJEHS = NJ Extraordinarily Hazardous Substances
NJHS = NJ Right-to-Know Hazardous Substances
OSHAPSM = OSHA Chemicals Requiring process safety management
OSHAWAC = OSHA workplace Air Contaminants
PA = PA Right-To-Know List of Hazardous Substances
SARA313 = SARA 313 Title III Toxic Chemicals
TSCA = Toxic Substances Control Act
TXAIR = TX Air Contaminants with Health Effects Screening Level

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