Material Safety Data Sheet: BANISH

Supercedes Date 05/03/2011 Issuing Date 01/08/2014

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name BANISH Recommended use Cleaning agent Information on Manufacturer CHEMSEARCH DIV. OF NCH CORP.

BOX 152170 IRVING, TX 75015 Product Code 0028
Chemical nature Aqueous solution Acidic
Emergency Telephone Number
CHEMTREC® 800-424-9300

2. HAZARDS IDENTIFICATION

Emergency Overview

DANGER POISON Corrosive

Causes skin and eye burns May cause delayed lung injury and burns Harmful or fatal if swallowed

Color Colorless - Amber Physical State Liquid Odor Pungent

Potential Health Effects

Principle Route of Exposure Skin contact, Eye contact, Inhalation.

Primary Routes of Entry Inhalation

Acute Effects

Eyes Corrosive to the eyes and may cause severe damage including blindness.

Skin Causes skin burns.

Inhalation Harmful by inhalation. Causes burns.

Ingestion If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus

and the stomach.

Chronic Toxicity Inhaled corrosive substances can lead to a toxic edema of the lungs.

Target Organ EffectsRespiratory system, Eyes, Skin, Teeth.Aggravated Medical ConditionsRespiratory disorders, Skin disorders.

Potential Environmental Effects See Section 12 for additional Ecological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS				
Component CAS-No				
Hydrophoria acid	7647.04.0			

4. FIRST AID MEASURES

General advice Do not get in eyes, on skin or on clothing. Do not breathe mist.

Eye Contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue

flushing for at least 15 minutes. Get medical attention immediately.

Skin Contact Remove immediately all contaminated clothing. Wash off immediately with plenty of water for at least

15 minutes. Get medical attention immediately.

Inhalation Move to fresh air. In case of shortness of breath, give oxygen. If not breathing, give artificial respiration.

Get medical attention immediately.

Ingestion Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately. Never give

anything by mouth to an unconscious person.

Notes to physician The product causes burns of eyes, skin and mucous membranes. Control of circulatory system, shock

therapy if needed.

5. FIRE-FIGHTING MEASURES

Flash Point Does not flash Method Not applicable

Autoignition Temperature No information available.

Flammability Limits in Air % Hydrogen, by reaction with metals. Upper 75 Lower 4

Suitable Extinguishing Media

Foam. Carbon dioxide (CO2). Dry chemical. Water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards arising from the chemical

Material can create slippery conditions. Contact with metals liberates flammable hydrogen gas.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA Health 3 Flammability 1 Instability 0
HMIS Health 3 Flammability 1 Instability 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Use personal protective equipment. Prevent further leakage or spillage if safe to do so. Material can

create slippery conditions.

Environmental Precautions Do not flush into surface water or sanitary sewer system.

Methods for Containment Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous

earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see

section 13)

Methods for Cleaning Up Pick up and transfer to properly labeled containers

Neutralizing Agent Neutralize with lime milk or soda and flush with plenty of water.

7. HANDLING AND STORAGE

Handling Do not get in eyes, on skin or on clothing. Do not breathe mist.

Storage Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place.

Freezing will affect the physical condition but will not damage the material. Thaw and mix before using.

Storage TemperatureMinimum35 °F/2 °CMaximum120 °F/49 °CStorage ConditionsIndoorXOutdoorHeatedRefrigerated

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH
Hydrochloric acid	Ceiling: 2 ppm	Ceiling: 5 ppm	IDLH: 50 ppm
		Ceiling: 7 mg/m ³	Ceiling: 5 ppm
			Ceiling: 7 mg/m ³

Engineering Measures Ensure adequate ventilation, especially in confined areas. Where reasonably practicable this should

be achieved by the use of local exhaust ventilation and good general extraction.

Personal Protective Equipment

Eye/Face Protection Tightly fitting safety goggles. Face-shield.

Skin Protection Wear suitable protective clothing, Impervious gloves.

Respiratory Protection In case of inadequate ventilation wear respiratory protection. When workers are facing concentrations

above the exposure limit they must use appropriate certified respirators.

General Hygiene Considerations Wear protective gloves/clothing. Ensure that eyewash stations and safety showers are close to the

workstation location. Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical StateLiquidViscosityNon viscousColorColorless - AmberOdorPungentAppearanceTransparent - HazypH< 1</td>

Specific Gravity 1.09 Evaporation Rate 0.6 (Butyl acetate=1)

Percent Volatile (Volume) 99.6 VOC Content (%) 0

Boiling Point/Range 220 °F / 104 °C

10. STABILITY AND REACTIVITY

Chemical Stability Stable. Hazardous polymerization does not occur.

Conditions to Avoid None known

Incompatible Products Bases, Strong oxidizing agents, Reducing agents, Metals.

Hazardous Decomposition Products

Hydrogen chloride gas, Chlorine gas, Hydrogen, by reaction with metals.

None under normal processing

11. TOXICOLOGICAL INFORMATION

Product Information No information available.

Component Information

Possibility of Hazardous Reactions

Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Hydrochloric acid	= 700 mg/kg (Rat)	> 5010 mg/kg (Rabbit)	= 3124 ppm (Rat) 1 h	no data available	no data available

Chronic Toxicity

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Hydrochloric acid	no data available	no data available	no data available	no data available	eyes, respiratory system,
					skin, teeth

Carcinogenicity There are no known carcinogenic chemicals in this product.

Component	ACGIH	IARC	NTP	OSHA	Other
Hydrochloric acid	not applicable				

12. ECOLOGICAL INFORMATION

No information available. **Product Information**

Component Information

Toxicity to Algae Toxicity to Fish Microtox Water Flea log Pow Component LC50 = 282 mg/L Gambusia affinis 96 Hydrochloric acid no data available no data available no data available N/A h

Persistence and Degradability

No information available. No information available. Bioaccumulation Mobility No information available.

13. DISPOSAL CONSIDERATIONS

Product Disposal Dispose of in accordance with local regulations.

Container Disposal Empty containers should be taken for local recycling, recovery, or waste disposal.

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name Hydrochloric acid solution

Hazard Class 8

UN-No UN1789

Packing Group Ш

Reportable Quantity (RQ) Hydrochloric acid, RQ kg= 11816.76

Description UN1789, Hydrochloric acid solution, 8, PG II

TDG

Proper shipping name Hydrochloric acid solution

Hazard Class 8 **UN-No** UN1789 **Packing Group**

Description Hydrochloric acid solution,8,UN1789,PG II

ICAO

UN-No UN1789

Proper Shipping Name Hydrochloric acid solution

Hazard Class Packing Group

Shipping Description UN1789, Hydrochloric acid solution, 8, PG II

IATA

UN-No UN1789

Hydrochloric acid solution **Proper Shipping Name**

Hazard Class 8 **Packing Group** Ш **ERG Code**

Shipping Description UN1789, Hydrochloric acid solution, 8, PG II

IMDG/IMO

Proper Shipping Name Hydrochloric acid solution 8

Hazard Class UN-No UN1789 **Packing Group** Ш

EmS No. F-A, S-B

Shipping Description UN1789, Hydrochloric acid solution,8,PG II

15. REGULATORY INFORMATION

Inventories

TSCA Complies
DSL Complies

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Component	CAS-No	Weight %	SARA 313 - Threshold Values
Hydrochloric acid	7647-01-0	10-30	1.0

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Chronic Health Hazard	Fire Hazard	Sudden Release of	Reactive Hazard
			Pressure Hazard	
Yes	No	No	No	No

 CERCLA

 Component
 Hazardous Substances RQs
 CERCLA EHS RQs

 Hydrochloric acid
 5000 lb
 5000 lb TPQ (gas only)

 5000 lb
 5000 lb

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

E Corrosive material D1B Toxic materials



16. OTHER INFORMATION

 Prepared By
 Angela Hutson

 Supercedes Date
 05/03/2011

 Issuing Date
 01/08/2014

Reason for Revision
Glossary
No information available.
No information available.
No information available.

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