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

Telephone inquiry 972-579-2477

2. HAZARD IDENTIFICATION

 Color Colorless - Amber
 Physical State Liquid
 Odor Pungent

Category 1

Category 4

Category 4

Category 1

Category 1

GHS

Classification

Physical Hazards

Substances/mixtures corrosive to metal

Health Hazard

Acute Oral Toxicity

Acute Inhalation Toxicity - Dusts and Mists

Skin Corrosion/Irritation

Serious Eye Damage/Eye Irritation

Other hazards

None

Labeling Signal Word DANGER



Hazard Statements

H314 - Causes severe skin burns and eye damage

H332 - Harmful if inhaled H302 - Harmful if swallowed H290 - May be corrosive to metals

Precautionary Statements

P280 - Wear protective gloves, protective clothing, eye protection and face protection.

P264 - Wash face, hands and any exposed skin thoroughly after handling.

P260 - Do not breathe mist

P270 - Do not eat, drink or smoke when using this product

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower

P332 + P313 - If skin irritation occurs, get medical attention.

P305 + P351 + P338 - 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 physician

P304 + P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.

P342 + P311 - If experiencing respiratory symptoms, call a physician

P301+ P330 + P331 - IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Call a physician if unwell.

P406 - Store in a corrosion-resistant container.

P390 - Absorb spillage to prevent damage

P501 - Dispose of contents and container in accordance with applicable regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
Hydrochloric acid	7647-01-0	10-30

4. FIRST AID MEASURES

0028 - BANISH

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

General advice 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 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. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth,

Methods for Containment

diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national

regulations (see section 13).

Methods for Cleaning Up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust) Neutralize with lime milk or soda and flush with plenty of water.

Neutralizing Agent

7. HANDLING AND STORAGE

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

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.
Minimum

Storage Temperature Storage Conditions 35 °F / 2 °C

Maximum

120 °F / 49 °C

Indoor

X Outdoor

Heated

Refrigerated

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
		ů ů	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 Skin Protection Respiratory Protection Tightly fitting safety goggles. Face-shield.

Wear suitable protective clothing, Impervious gloves.

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 State Liquid Non viscous Viscosity Color Colorless - Amber Odor Pungent

Not applicable Transparent - Hazy **Odor Threshold Appearance**

pН **Specific Gravity** 1.09 Percent Volatile (Volume) **Evaporation Rate** 0.6 (Butyl acetate=1) 99.6 VOC Content (g/L) **VOC Content (%)** 0

15.4 mmHg @ 70°F 0.7 (Air = 1.0)Vapor Pressure Vapor Density Solubility Completely soluble n-Octanol/Water Partition No data available Melting Point/Range No data available **Decomposition Temperature** No data available **Boiling Point/Range** 220 °F / 104 °C Flammability (solid, gas) No data available 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

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.

Possibility of Hazardous Reactions None under normal processing

11. TOXICOLOGICAL INFORMATION

Product Information

The following values are calculated based on chapter 3.1 of the GHS document (Rev. 3, 2009):

Oral LD50 No information available **Dermal LD50** No information available Inhalation LC50

> Gas No information available Mist No information available No information available Vapor

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 Effects Respiratory system, Eyes, Skin, Teeth. Respiratory disorders, Skin disorders. **Aggravated Medical Conditions**

Component Information

Acute Toxicity

	Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Ī	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

There are no known carcinogenic chemicals in this product. Carcinogenicity

Component	ACGIH	IARC	NTP	OSHA	Other
Hydrochloric acid	not applicable				

12. ECOLOGICAL INFORMATION

No information available. **Product Information**

Component Information

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

Persistence and Degradability
Bioaccumulation
No information available.
No information available.
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

Reportable Quantity (RQ) DescriptionHydrochloric acid, RQ kg= 11816.76
UN1789, Hydrochloric acid solution, 8, PG II

TDG

 Hazard Class
 8

 UN-No
 UN1789

 Packing Group
 II

ICAO

UN-No UN1789

Proper Shipping Name Hydrochloric acid solution

Hazard Class 8
Packing Group

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

IATA

UN-No UN1789

Proper Shipping Name Hydrochloric acid solution

Hazard Class 8
Packing Group || ERG Code 8L

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

IMDG/IMO

Proper Shipping Name Hydrochloric acid solution

 Hazard Class
 8

 UN-No
 UN1789

 Packing Group
 II

 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 Pressure Hazard	Reactive Hazard
Yes	No	No	No No	No
CERCLA	·	_	_	

Component	Hazardous Substances RQs	CERCLA EHS RQs				
Hydrochloric acid	5000 lb	500 lb TPQ (gas only)				
		5000 lb				

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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