



Safety Data Sheet **BANISH**

Supersedes Date Initial Release

Issuing Date DEC 2016

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name BANISH

Recommended use Cleaning agent

Manufacturer, importer, supplier

NCH AUSTRALIA PTY LTD , DIV. OF NCH CORPORATION
5-9,Ralph Street , Alexandria , NSW -2015

Telephone inquiry

+61-2-96690260

Emergency Telephone Number

+61-2-96690237 / 0401718972

Fax number

+61-2-96931562

Product Code 4028

Chemical nature Aqueous solution Acidic

Distributor

NCH AUSTRALIA PTY LTD
5-9, Ralph Street , Alexandria , NSW -2015

Telephone Number

+61-2-96690260

Emergency Telephone Number

+61-2-96690237 / 0401718972

Fax number

+61-2-96931562

2. HAZARD IDENTIFICATION

Colour Pale Light Amber

Physical State Liquid

Odour Pungent

Mixture or Pure Substance: Mixture

GHS

Classification

Physical Hazards

Substances /mixtures corrosive to metals

Category 1

Health Hazard

Skin Corrosion/Irritation

Category 1B

Specific target organ systemic toxicity (single exposure)

Category 3

Other Hazards

Labelling

Signal Word

Danger



Hazard

Statements

H290 - May be corrosive to metals

H314 - Causes severe skin burns and eye damage

H335 - May cause respiratory irritation

Precautionary

Statements

P234 - Keep only in original container

P260-Do not breath dusts or mists

P261 - Avoid breathing dust/fume gas/mist/vapours/spray

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

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

P271 - Use only outdoors or in a well-ventilated area.

P280 - Wear protective gloves/protective clothing/eye protection/face protection

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

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

P304 + P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms call a physician.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P363 - Wash contaminated clothing before reuse

P390 - Absorb spillage to prevent damage

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

P405 - Store locked up

P406 - Store in corrosive resistant container with a resistant inner liner

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No	ENCS	Weight %
Hydrochloric acid	7647-01-0	Present	10-30
INGREDIENTS NOT TO BE HAZARDOUS			UP TO 100

4. FIRST AID MEASURES

General advice	Do not get in eyes, on skin or on clothing. Do not breathe vapours or spray 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	Clean mouth with water and afterwards drink plenty of water
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	Not flammable	Method	Not applicable
Auto ignition Temperature	No information available.		
Flammability Limits in Air % Hydrogen, by reaction with metals.			
Upper 75	Lower 4		
Suitable Extinguishing Media	Foam. Alcohol-resistant foam. Carbon dioxide (CO ₂), Foam, Dry Chemical or Water fog. 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. May react with galvanised steel or unlined steel metals to produce hydrogen gas which may form a highly flammable or explosive gas mixture .If involved in a major fire , could evolve oxides of nitrogen or phosphorous.		
Protective Equipment and Precautions for Firefighters	Wear self-contained breathing apparatus pressure-demand, Safe work Australia (approved or equivalent) and full protective gear.		

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	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust)
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 vapours or spray 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 Temperature	Minimum	2 °C	Maximum	49 °C
Storage Conditions	Indoor	X	Outdoor	Heated Refrigerated

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Component	ES-TWA	ISHL	ACGIH TLV
Hydrochloric acid	Peak: 5 ppm Peak: 7.5 mg/m ³	no data available	Ceiling: 2 ppm
INGREDIENTS NOT TO BE HAZARDOUS		no data available	No data available

Engineering Measures

Use with local exhaust ventilation. Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

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

Eye/Face Protection

Tightly fitting safety goggles. Face-shield.

Hand Protection

Protective gloves

Skin Protection

Wear suitable protective clothing, Impervious gloves.

General Hygiene Considerations

Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Transparent
Colour	Pale Light Amber
Physical State	Liquid
Odour	Pungent
Odour Threshold	No data available
pH (100% solution)	< 1
Melting Point/Range	No data available
Freezing Point	No information available
Boiling Point/Range	104 °C
Flash Point	Not flammable
Method	Not applicable
Evaporation Rate	0.1 (Butyl acetate=1)
Vapour Pressure	15.44 mm Hg @ 21°C
Solubility	Completely soluble
Vapour Density	0.6 (Air = 1.0)
Specific Gravity	1.09
Auto ignition Temperature	No information available.
Viscosity	Non viscous
Molecular Weight	No data available
Percent Volatile (Volume) 4.1	99.6%
VOC Content (%) 41.901	0
VOC Content (g/L)	0

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

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

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

Oral LD50 3,644.00 mg/kg

Dermal LD50 No information available

Inhalation LC50

Gas 3,644.00 mg/L

Mist 2.61 mg/L

Vapour 16.00 mg/L

Primary Routes of Entry Inhalation

Main Symptoms**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 oesophagus and the stomach.

Chronic Effects Inhaled corrosive substances can lead to a toxic oedema of the lungs

Target Organ Effects Respiratory system, Eyes, Skin, Teeth.

Aggravated Medical Conditions Respiratory disorders, Skin disorders.

Component Information**Acute Toxicity**

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Hydrochloric acid	238 - 277 mg/kg (Rat)	> 5010 mg/kg (Rabbit)	= 1.68 mg/L (Rat) 1 h	no data available	no data available
INGREDIENTS NOT TO BE HAZARDOUS	no data available	no data available	no data available	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
INGREDIENTS NOT TO BE HAZARDOUS	no data available	no data available	no data available	no data available	no data available

Carcinogenicity

There are no known carcinogenic chemicals in this product.

Component	ES	ACGIH	IARC	NTP	Other
Hydrochloric acid	not applicable	not applicable	not applicable	not applicable	not applicable
INGREDIENTS NOT TO BE HAZARDOUS	not applicable	not applicable	not applicable	not applicable	not applicable

12. ECOLOGICAL INFORMATION

Product Information

No data available

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
Hydrochloric acid	no data available	no data available	no data available	no data available	N/A
INGREDIENTS NOT TO BE HAZARDOUS	no data available	no data available	no data available	no data available	N/A

Eco toxicity effects

No information available

Persistence & Degradability

No specific information.

Bioaccumulation

No information available

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

ADG 7

UN-No	UN1789
Proper Shipping Name	Hydrochloric acid solution
Hazard Class	8
Packing Group	II
Hazchem Code	2R
Shipping Description	UN1789, Hydrochloric acid solution,8,PG II

15. REGULATORY INFORMATION

Australia
Poison Schedule Schedule 6

16. OTHER INFORMATION

Prepared By	Arvind Rane
Super cedes Date	Initial Release
Issuing Date	DEC 2016
Reason for Revision	GHS -SDS FORMAT
Glossary	No information available.
List of References.	No information available.

NCH AUSTRALIA PTY LTD , DIV OF NCH CORP . assumes no responsibility for personal injury or property damage caused by the use, storage, or disposal of the product in a manner not recommended on the product label. Users assume all risks associated with such unrecommended use, storage or disposal of the product. The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.