Indicator Solution #1

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Issue date: 05/07/2020 Revision date: 05/07/2020 Version: 1.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture

Trade name : Indicator Solution #1

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Water treatment chemicals

1.3. Supplier

Manufacturer:

Poolmaster Inc.

770 West Del Paso Road

Sacramento, CA 95834

Tel: 916-567-9800

Email: info@poolmaster.com

1.4. Emergency telephone number

Emergency number : 916-567-9800 or 1-800-854-1492 (Monday – Friday; 8:00am - 4:30pm PST)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Skin corrosion/irritation, Category 1	Causes severe skin burns and eye damage.
Serious eye damage/eye irritation, Category 1	Causes serious eye damage.
Carcinogenicity, Category 1B	May cause cancer.

2.2. GHS Label elements, including precautionary statements

GHS US labelling

Hazard pictograms (GHS US) :

Signal word (GHS US) : Danger

Hazard statements (GHS US) : Causes severe skin burns and eye damage.
May cause cancer.

Precautionary statements (GHS US) : Do not handle until all safety precautions have been read and understood.
Do not breathe spray.
Wash hands thoroughly after handling.
Wear protective gloves, eye protection.
If swallowed: rinse mouth. Do NOT induce vomiting.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a poison center or doctor.
Wash contaminated clothing before reuse.
Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

other hazards which do not result in classification : This product is a consumer product and is not subject to the requirements of OSHA HCS 2012. Nonetheless, this SDS, including the hazard identification in accordance with HCS/HazCom 2012, is provided for the information of product users. This product should not present a health or safety hazard under recommended or normal use.

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
Hydrochloric acid	(CAS-No.) 7647-01-0	5.14	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335
3,3'-Dimethylbenzidine dihydrochloride	(CAS-No.) 612-82-8	< 0.13	Acute Tox. 4 (Oral), H302 Carc. 1B, H350

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : If medical advice is needed, have product container or label at hand.

First-aid measures after inhalation : If experiencing respiratory symptoms: Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash off immediately and plentifully with water for at least 20 minutes. Take off immediately all contaminated clothing. Call a physician immediately.

First-aid measures after eye contact : In case of eye contact, immediately rinse with clean water for 20-30 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.

First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Call a physician immediately.

4.2. Most important symptoms and effects (acute and delayed)

Effects on humans : This product, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. However, use or processing of the product in a manner not in accordance with the product's directions for use may affect the performance of the product and may present potential health and safety hazards.

Symptoms/effects : May cause cancer.

Symptoms/effects after inhalation : May be irritating to the mucous membranes and to the respiratory system.

Symptoms/effects after skin contact : Causes severe burns.

Symptoms/effects after eye contact : Serious damage to eyes.

Symptoms/effects after ingestion : Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media : None known.

5.2. Specific hazards arising from the chemical

Fire hazard : None under normal use.

Explosion hazard : None under normal use.

Hazardous decomposition products in case of fire : Toxic and corrosive vapours may be released.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.

Protective equipment for firefighters : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid contact with skin and eyes. Do not breathe spray.

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures : No additional risk management measures required.

6.1.2. For emergency responders

Protective equipment : Wear recommended personal protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures : No additional risk management measures required.

6.2. Environmental precautions

Avoid discharge to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Clean up any spills as soon as possible, using an absorbent material to collect it.

Methods for cleaning up : Wipe up with absorbent material (for example cloth). Wear recommended personal protective equipment.

Other information : Dispose in a safe manner in accordance with local/national regulations.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of residues refer to section 13 : "Disposal considerations".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Do not handle until all safety precautions have been read and understood. Avoid contact with skin and eyes. Do not breathe spray. Do not mix with other chemicals. Wear personal protective equipment.

Hygiene measures : Always wash hands after handling the product. Wash contaminated clothing before reuse. Use good personal hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool well ventilated place. Keep container closed when not in use. Keep out of direct sunlight.

Incompatible materials : Acids. Bases. Oxidizing agent.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Indicator Solution #1	
No additional information available	

Hydrochloric acid (7647-01-0)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Hydrogen chloride
ACGIH Ceiling (ppm)	2 ppm
Remark (ACGIH)	TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
ACGIH chemical category	Not Classifiable as a Human Carcinogen
Regulatory reference	ACGIH 2020
USA - OSHA - Occupational Exposure Limits	
Local name	Hydrogen chloride
OSHA PEL (Ceiling) (mg/m³)	7 mg/m³
OSHA PEL (Ceiling) (ppm)	5 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
USA - IDLH - Occupational Exposure Limits	
US IDLH (ppm)	50 ppm
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL (ceiling) (mg/m³)	7 mg/m³
NIOSH REL (ceiling) (ppm)	5 ppm

3,3'-Dimethylbenzidine dihydrochloride (612-82-8)
No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls	:	None under normal use.
Environmental exposure controls	:	Avoid discharge to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

If there is a risk of skin contact: Impermeable protective gloves

Eye protection:

If there is a risk of eye contact: Wear safety glasses if needed

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Appearance	:	Clear.
Colour	:	Colourless
Odour	:	Odourless
Odour threshold	:	No data available
pH	:	< 1
Melting point	:	No data available
Freezing point	:	No data available
Boiling point	:	100 °C / 212°F
Flash point	:	No data available
Relative evaporation rate (butylacetate=1)	:	No data available
Flammability (solid, gas)	:	Non flammable.
Vapour pressure	:	No data available
Relative vapour density at 20 °C	:	No data available
Relative density	:	No data available
Solubility	:	Soluble.
Partition coefficient n-octanol/water (Log Pow)	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosive limits	:	No data available
Explosive properties	:	Not explosive.
Oxidising properties	:	Non oxidizing.

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Do not mix with other chemicals.

10.5. Incompatible materials

Acids. Bases. Oxidizing agent.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)

Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)

Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

Hydrochloric acid (7647-01-0)	
LD50 oral rat	238 – 277 mg/kg
LD50 dermal rabbit	> 5010 mg/kg
LC50 inhalation rat (mg/l)	1.68 mg/l (Exposure time: 1 h)
ATE US (oral)	238 mg/kg bodyweight
ATE US (vapours)	1.68 mg/l/4h
ATE US (dust,mist)	1.68 mg/l/4h

3,3'-Dimethylbenzidine dihydrochloride (612-82-8)	
ATE US (oral)	500 mg/kg bodyweight

Skin corrosion/irritation : Causes severe skin burns.
pH: < 1

Serious eye damage/irritation : Causes serious eye damage.
pH: < 1

Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity : May cause cancer.

Hydrochloric acid (7647-01-0)	
IARC group	3 - Not classifiable

3,3'-Dimethylbenzidine dihydrochloride (612-82-8)	
IARC group	2B - Possibly carcinogenic to humans
National Toxicity Program (NTP) Status	Evidence of Carcinogenicity
In OSHA Hazard Communication Carcinogen list	Yes

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)

STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)

Hydrochloric acid (7647-01-0)	
STOT-single exposure	May cause respiratory irritation.

STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

Aspiration hazard : Not classified
(Based on available data, the classification criteria are not met)

Viscosity, kinematic : No data available

Effects on humans : This product, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. However, use or processing of the product in a manner not in accordance with the product's directions for use may affect the performance of the product and may present potential health and safety hazards.

Symptoms/effects : May cause cancer.

Symptoms/effects after inhalation : May be irritating to the mucous membranes and to the respiratory system.

Symptoms/effects after skin contact : Causes severe burns.

Symptoms/effects after eye contact : Serious damage to eyes.

Symptoms/effects after ingestion : Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

Other information : Likely routes of exposure: ingestion, inhalation, skin and eye.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Before neutralisation, the product may represent a danger to aquatic organisms.

12.2. Persistence and degradability

Indicator Solution #1	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

Indicator Solution #1	
Bioaccumulative potential	Not established.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information : Avoid discharge to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid discharge to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN1789 Hydrochloric acid (SOLUTION), 8, II

UN-No.(DOT) : UN1789

Proper Shipping Name (DOT) : Hydrochloric acid
SOLUTION

Class (DOT) : 8 - Class 8 - Corrosive material 49 CFR 173.136

Packing group (DOT) : II - Medium Danger

Hazard labels (DOT) : 8 - Corrosive

Other information : Consult the associated transport regulations for available and applicable exceptions or exemptions.

Transportation of Dangerous Goods

Transport document description : UN1789 HYDROCHLORIC ACID (SOLUTION), 8, II

UN-No. (TDG) : UN1789

Proper Shipping Name (Transportation of Dangerous Goods) : HYDROCHLORIC ACID

TDG Primary Hazard Classes : 8 - Class 8 - Corrosives

Packing group : II - Medium Danger

Transport by sea

Transport document description (IMDG)	:	UN 1789 HYDROCHLORIC ACID (SOLUTION), 8, II
UN-No. (IMDG)	:	1789
Proper Shipping Name (IMDG)	:	HYDROCHLORIC ACID
Class (IMDG)	:	8 - Corrosive substances
Packing group (IMDG)	:	II - substances presenting medium danger
Limited quantities (IMDG)	:	1 L

Air transport

Transport document description (IATA)	:	UN 1789 Hydrochloric acid (SOLUTION), 8, II
UN-No. (IATA)	:	1789
Proper Shipping Name (IATA)	:	Hydrochloric acid
Class (IATA)	:	8 - Corrosives
Packing group (IATA)	:	II - Medium Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Hydrochloric acid	CAS-No. 7647-01-0	5.14%
3,3'-Dimethylbenzidine dihydrochloride	CAS-No. 612-82-8	< 0.13%

Hydrochloric acid (7647-01-0)	
Listed on EPA Hazardous Air Pollutant (HAPS)	
CERCLA RQ	5000 lb
RQ (Reportable quantity, section 304 of EPA's List of Lists)	5000 lb
Section 302 EPCRA Reportable Quantity (RQ)	5000 lb gas only
SARA Section 302 Threshold Planning Quantity (TPQ)	500 lb (gas only)

15.2. International regulations

CANADA

Hydrochloric acid (7647-01-0)
Listed on the Canadian DSL (Domestic Substances List)

Water (7732-18-5)
Listed on the Canadian DSL (Domestic Substances List)

3,3'-Dimethylbenzidine dihydrochloride (612-82-8)
Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

Hydrochloric acid (7647-01-0)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Water (7732-18-5)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

3,3'-Dimethylbenzidine dihydrochloride (612-82-8)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations

Hydrochloric acid (7647-01-0)
Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Japanese ISHL (Industrial Safety and Health Law) Listed on KECL/KECI (Korean Existing Chemicals Inventory) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Japanese Poisonous and Deleterious Substances Control Law Listed on INSQ (Mexican National Inventory of Chemical Substances) Listed on the TCSI (Taiwan Chemical Substance Inventory)

Water (7732-18-5)
Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on KECL/KECI (Korean Existing Chemicals Inventory) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on INSQ (Mexican National Inventory of Chemical Substances) Listed on the TCSI (Taiwan Chemical Substance Inventory)

3,3'-Dimethylbenzidine dihydrochloride (612-82-8)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on INSQ (Mexican National Inventory of Chemical Substances) Listed on the TCSI (Taiwan Chemical Substance Inventory)

15.3. US State regulations

⚠ **WARNING:** This product can expose you to 3,3'-Dimethylbenzidine dihydrochloride, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Component	State or local regulations
3,3'-Dimethylbenzidine dihydrochloride(612-82-8)	U.S. - Maine - Chemicals of Concern

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date : 05/07/2020

Other information : None.

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.