Tribioscience

Safety Data Sheet
Cell Viability Assay Kit

Section 1: Identification

Product name:	Hydrochloric Acid, 6M
Product number:	TBS5051
Identified uses:	Laboratory Research Reagents
Company:	TribioScience 365 San Aleso Ave Sunnyvale, CA 94085
Phone:	408-498-0197
Email:	order@tribioscience.com

Section 2: Hazard(s) Identification

Hazard Classification:

Corrosive:
Corrosive to metals, category 1
Skin corrosion, category 1B
Serious eye damage, category 1

Irritant:
Specific target organ toxicity following single exposure, category 3

Signal Word: Danger

Hazard Statements:
May be corrosive to metals
Causes severe skin burns and eye damage
May cause respiratory irritation
Causes serious eye damage

Pictogram:

Precautionary Statements:
If medical advice is needed, have product container or label at hand
Keep out of reach of children
Read label before use
Keep only in original container
Avoid breathing dust/fume/gas/mist/vapors/sprays
Wash thoroughly after handling
Use only outdoors or in a well-ventilated area
Wear protective gloves/protective clothing/eye protection/face protection
If SWALLOWED: Rinse mouth. Do not induce vomiting
If ON SKIN: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
If INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
If IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present. Continue rinsing

Description of other hazards:

Immediately call a Poison Center or physician
Wash contaminated clothing before reuse
Absorb spillage to prevent material damage
Store in a well ventilated place. Keep container tightly closed
Store locked up
Store in a corrosive resistant container with a resistant inner liner

WHMIS

NFPA/HMIS

NFPA SCALE (0-4)

HMIS RATINGS (0-4)

Section 3: Composition/ Information on Ingredients

Chemical Name	CAS#	Concentration (%)
Hydrochloric Acid, ACS	7647-01-0	18%
Deionized Water	7732-18-5	82%

Section 4: First-Aid Measures

After skin contact: Wash off with plenty of water for 20 minutes. Remove contaminated clothing and shoes. Immediately consult a physician.

After eye contact: Flush eyes with water. Remove contact lens if present while rinsing. Immediately consult a physician.

After inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

After swallowing: Move exposed individual to fresh air. Loosen and remove clothing as necessary. Give oxygen if breathing is difficult. Immediately consult a physician.

Never give anything by mouth to an unconscious person. Rinse mouth with water. Do not induce vomiting. Immediately consult a physician.

Section 5: Fire-Fighting Measures

Suitable extinguishing agents: Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

Unsuitable extinguishing agents: No data available.

Specific hazards arising from chemical: Hydrogen chloride gas.

Special protective equipment for firefighters:	Wear self-contained breathing apparatus for firefighting if necessary.

Section 6: Accidental Release Measures

Personal precautions:	Use personal protective equipment. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. For personal protection see section 8.
Measures for environmental protection:	Do not let product enter drains, sewer or waterway.
Measures for cleaning/collecting:	Wear protective eyeware, gloves, and clothing. Refer to Sectin 8. Absorb with suitable materials and seal bag or container for disposal. Use trained response staff or contractor if necessary.

Section 7: Handling and Storage

Handling:	Wear protective equipment. Avoid inhalation, contact with eyes, skin and clothing. Avoid the formation of dust and aerosols. Use in a well-ventilated area. Keep away from sources of ignition. Handle in accordance with good industrial hygiene and safety practice. Avoid prolonged or repeated exposure.
Storage:	Store in cool, well-ventilated area. Keep away from heat and hot surfaces. Store with like hazards. Keep container tightly sealed until ready for use.

Section 8: Exposure Controls/Personal Protection

Engineering controls:	Use in a fume hood where applicable. Ensure all engineering measures described under section 7 of SDS are in place. Ensure laboratory is equipped with a safety shower and eye wash station.
General protective and hygienic measures:	Use appropriate chemical resistant gloves (minimum requirement use standard BS EN 374:2003). Gloves should be inspected before use. Wash and dry hands thoroughly after handling. Avoid contact with skin, eye, and clothing.
Breathing equipment:	If risk assessment indicates necessary, use a suitable respirator.
Protection of hands:	Handle with chemical-resistant gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection:	Use appropriate safety glasses.

Section 9: Physical and Chemical Properties

Physical state:	Liquid
Color:	Clear colorless
Odor:	Pungent
Odor threshold:	No data available.
pH:	<1
Melting point/freezing point:	No data available.
Boiling point/boiling range:	No data available.
Flash point:	No data available.
Evaporation rate:	>1
Flammability:	No data available.
Upper/lower flammability or explosive limits:	No data available.
Vapor pressure:	No data available.
Vapor density:	No data available.
Relative density:	No data available.
Solubility:	No data available.
Partition coefficient:	No data available.
Auto ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.

Section 10: Stability and Reactivity

Reactivity:	Stable under recommended transport or storage conditions.
Chemical stability:	Stable under normal conditions.
Possibility of hazardous reactions:	Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.
Conditions to avoid:	Heat, incompatible materials.
Incompatible materials:	Most metals, alkalis, cyanides, sulfides, sulfites, metal oxides, formaldehydes.
Hazardous decomposition products:	Fumes of hydrogen chloride and hydrogen in contact with metals. Chloride gas from oxidizers.

Section 11: Toxicological Information

Acute toxicity:	Classified based on available data.
Skin:	Classified based on available data.
Eye:	Classified based on available data.
Inhalation:	Classified based on available data.
Germ cell mutagenicity:	Classified based on available data.
Carcinogenic effects:	Classified based on available data.
Reproductive toxicity:	Classified based on available data.
STOT - single exposure:	Classified based on available data.
STOT - repeated exposure:	Classified based on available data.

Aspiration hazard:	Classified based on available data.

Section 12: Ecological Information

Ecotoxicity:	Toxicity to Gambusia affinis (Mosquito fish) – 282 mg/l – 96 h (HCl acid)
Mobility:	No data available.
Biodegradation:	No data available.
Bioaccumulation:	No data available.
Other adverse effects:	No data available.

Section 13: Disposal Considerations

Waste from residues/unused products:	Transfer to a suitable container and arrange for collection by specialized disposal company in accordance with national, regional, or local legislation.
Contaminated packaging:	Dispose of in a regulated landfill site or other method for hazardous or toxic wastes in accordance with national, regional, or local legislation.

Section 14: Transport Information

DOT regulations

UN number:	1789
UN shipping name:	Hydrochloric acid
Hazard class:	8 Corrosive substances.
Packing group:	II
Marine pollutant:	No data available.
Transport in bulk:	No data available.
Special precautions:	No data available.

Section 15: Regulatory Information

SARA Section 311/312:	Acute.
SARA Section 313 (specific toxic chemical listings):	7647-01-0 Hydrochloric acid
Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs):	No data available.
TSCA (Toxic Substances Control Act):	No data available.

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