

SAFETY DATA SHEET

Cat# B2858 YW3-56 (HYDROCHLORIDE)

SDS DATE: Aug 13, 2019

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: YW3-56 (HYDROCHLORIDE)
PRODUCT CODES: Cat# B2858-500, 1000
RESTRICTIONS ON USE: For laboratory research purposes. Not for drug or household use.
MANUFACTURER: BioVision, Inc.
ADDRESS: 155 S. Milpitas Boulevard, Milpitas, CA 95035
EMERGENCY PHONE: 858-373-8066
CHEMTREC PHONE:
OTHER CALLS: 408-493-1800
FAX PHONE: 408-493-1801

SECTION 2: HAZARDS IDENTIFICATION

Component	Description	Volume	Safety Information
YW3-56 (HYDROCHLORIDE)	Contains Methanol	500 µg, 1000 µg	See below

Methanol:

Emergency Overview

GHS Classification:

Flammable Liquids, Category 2
Acute Toxicity: Inhalation, Category 3
Acute Toxicity: Oral, Category 3
Acute Toxicity: Skin, Category 3
Specific Target Organ Toxicity (single exposure), Category 1
GHS Label elements, including precautionary statements



Pictogram:

H225: Highly flammable liquid and vapor.
H301: Toxic if swallowed.
H311: Toxic in contact with skin.
H331: Toxic if inhaled.
H370: Causes damage to organs {eyes}.

GHS Hazard Phrases:

2.2 Label Elements:

GHS Signal Word: Danger

P210: Keep away from {heat/sparks/open flames/hot surfaces}. - No smoking.
P260: Do not breathe {dust/fume/gas/mist/vapors/spray}.
P264: Wash {hands} thoroughly after handling.
P280: Wear {protective gloves/protective clothing/eye protection/face protection}.

GHS Precaution Phrases:

P301+310: IF SWALLOWED: Immediately P311: Call a POISON CENTER or doctor/physician.
P302+352: IF ON SKIN: Wash with plenty of soap and water.
P303+361+353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P308+311: If exposed or concerned: Call a {POISON CENTER/Doctor/...}.
P321: Specific treatment {see ... on this label}.
P330: Rinse mouth.
P361+364: Take off immediately all contaminated clothing and wash it before reuse.

HMIS Classification

Health hazard: 2
Chronic health hazard: *
Flammability: 0
Physical hazards: 0

NFPA Rating

Health Hazard: 2

SAFETY DATA SHEET

Cat# B2858 YW3-56 (HYDROCHLORIDE)

SDS DATE: Aug 13, 2019

Fire: 0

Reactivity Hazard: 0

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Product Name/Chemical Name	CAS Number	EC-No.	MW	Chemical Formula	Concentration
Methanol	67-56-1	200-659-6	32.04	CH ₄ O	<10%

SECTION 4: FIRST AID MEASURES

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

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

In case of skin contact: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

If swallowed: DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5: FIRE-FIGHTING MEASURES

Methanol:

Condition of flammability: Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.

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

Special protective equipment for fire-fighters: Wear self-contained breathing apparatus if necessary.

Hazardous combustion products: Hazardous decomposition products formed under fire conditions— see section 10.

Further information: Use water spray to cool unopened containers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions: Use personal protective equipment. Avoid breathing vapors, mist, gas, or dust. Avoid dust formation. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods for cleaning up: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Use explosion-proof equipment. Keep away from sources of ignition (no smoking). Take measures to prevent the buildup of electrostatic charge.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage temperature: -20°C

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol:

Components	CAS-No.	Value	Control parameters	Basis
Methanol	67-56-1	TWA	200 ppm	USA. ACGIH Threshold Limit Values (TLV)
Remarks:	Headache. Eye damage. Substances for which there is a Biological Exposure Index or Indices. Danger of cutaneous absorption.			
		STEL	250 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Headache. Eye damage. Substances for which there is a Biological Exposure Index or Indices (see BEI ® section). Danger of cutaneous absorption.			
		TWA	200 ppm 260 mg/m ³	USA. OSHA – Table Z-1 Limits for Air Contaminants – 1910.1000
	Skin notation.			
		STEL	250 ppm 325 mg/m ³	USA. OSHA – Table Z-1 Limits for Air Contaminants – 1910.1000
	Skin notation.			
		TWA	200 ppm 260 mg/m ³	USA. Occupational Exposure Limits (OSHA) – Table Z-1 Limits for Air Contaminants
	The value in mg/m ³ is approximate.			
		TWA	200 ppm 260 mg/m ³	USA. NIOSH recommended exposure limits
	Potential for dermal absorption.			

SAFETY DATA SHEET

Cat# B2858 YW3-56 (HYDROCHLORIDE)

SDS DATE: Aug 13, 2019

Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with 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

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Methanol
Appearance:	Clear liquid
pH:	No data available
Water Solubility:	Completely soluble
Other Solubility:	No data available
Specific Gravity (g/ml):	64.7 °C (148.5 °F)
Boiling Point (°C):	-98 °C (-144 °F)
Melting Point (°C):	11.0 °C (51.8 °F)
Flash Point (°C):	455 °C (851 °F)
Ignition Temperature (°C):	0.791 g/ml at 25 °C (77 °F)
Density	

SECTION 10: STABILITY AND REACTIVITY

Property	Methanol
Chemical stability	Stable under recommended storage conditions
Conditions to avoid:	Heat, flames, sparks, extreme temperatures, direct sunlight
Materials to avoid:	Acid chlorides, acid anhydrides, oxidizing agents, alkali metals, reducing agents, acids
Hazardous decomposition products:	Carbon oxides

SECTION 11: TOXICOLOGICAL INFORMATION

Methanol:

Acute toxicity: LD50 Oral – rat – 5,628 mg/kg

LC50 Inhalation – rat – 4 h – 64000 ppm

LC50 Inhalation – rat – 4 h – 87.6 mg/l

LD50 Dermal – rabbit – 15,800 mg/kg

Skin corrosion/irritation: Skin – rabbit – no skin irritation

Serious eye damage/eye irritation: Eyes – rabbit – no eye irritation

Respiratory or skin sensitization: Guinea pig – OECD Test Guideline 406 – does not cause skin sensitization.

Germ cell mutagenicity: Genotoxicity in vitro – non-mammalian – other cell types – negative

Genotoxicity in vivo – mouse – male and female – intraperitoneal - negative

Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Teratogenicity: no data available

Specific target organ toxicity – single exposure (GHS): Causes damage to organs.

Specific target organ toxicity – repeated exposure (GHS): no data available

Potential Health Effects

Inhalation: Toxic if inhaled. Causes respiratory tract irritation.

SAFETY DATA SHEET

Cat# B2858 YW3-56 (HYDROCHLORIDE)

SDS DATE: Aug 13, 2019

Skin: Toxic if absorbed through skin. Causes skin irritation.

Eyes: Causes eye irritation.

Ingestion: Toxic if swallowed.

Signs and Symptoms of Exposure: Methyl alcohol may be fatal or cause blindness if swallowed. Cannot be made non-poisonous. Effects due to ingestion may include: nausea, headache, vomiting, gastrointestinal disturbance, dizziness, weakness, confusion, drowsiness, unconsciousness. May cause convulsions.

Additional information: Repeated dose toxicity – monkey – Gavage – 72 h → lowest observed adverse effect level – 2,340 mg/kg
RTECS: PC1400000

SECTION 12: ECOLOGICAL INFORMATION

Methanol:

Persistence and degradability: Biodegradability (aerobic) → Result: 72% - rapidly biodegradable

Toxicity:

Toxicity to fish → LC50 – Oncorhynchus mykiss (rainbow trout) – 19,000 mg/l – 96 h

Mortality LC50 – Lepomis macrochirus (Bluegill) – 15,400 mg/l – 96 h

Toxicity to daphnia and other aquatic invertebrates → EC50 – Daphnia magna (Water flea) – 24,500 mg/l – 48 h

EC100 – Daphnia magna (Water flea) – 10,000 mg/l – 24 h

Toxicity to algae → Growth inhibition EC50 – Scenedesmus capricornutum (fresh water algae) – 22,000 mg/l

Bioaccumulative potential: Bioaccumulation → Cyprinus carpio (Carp) – 72 d at 20 °C; Bioconcentration factor (BCF): 1.0

Mobility in soil: Will not adsorb on soil.

PBT and vPvB assessment: no data available

Other adverse effects: no data available

SECTION 13: DISPOSAL CONSIDERATIONS

Product: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging: Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

YW3-56 (HYDROCHLORIDE):

DOT (US): Not dangerous goods.

IMDG: Not dangerous goods.

IATA: Not dangerous goods.

Methanol:

DOT (US): Not dangerous goods.

IMDG: Not dangerous goods.

IATA: Not dangerous goods.

SECTION 15: REGULATORY INFORMATION

YW3-56 (HYDROCHLORIDE):

SARA 302 Components: SARA 302: No chemical in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components: SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title II, Section 313.

SARA 311/312 Hazards: Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components: Methanol, CAS-No. 67-56-1; Revision Date: 2007-07-01

Pennsylvania Right To Know Components: YW3-56 (HYDROCHLORIDE), CAS-No. N/A, Methanol, CAS-No. 67-56-1; Revision Date: 2007-07-01

New Jersey Right To Know Components YW3-56 (HYDROCHLORIDE), CAS-No. N/A, Methanol, CAS-No. 67-56-1; Revision Date: 2007-07-01

California Prop. 65 Components: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

EU regulations

Component	Risk Phrases	Safety Phrases
YW3-56 (HYDROCHLORIDE)	--	--
Methanol	R11, R23/24/25, R33	S16, S24/25, S36/37, S45

SECTION 16: OTHER INFORMATION

DISCLAIMER:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It

SAFETY DATA SHEET

Cat# B2858 YW3-56 (HYDROCHLORIDE)

SDS DATE: Aug 13, 2019

does not represent any guarantee of the properties of the product. BioVision, Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.