

# **SAFETY DATA SHEET**

This safety data sheet was created pursuant to the requirements of: The Globally Harmonised System of Classification and Labelling of Chemicals (GHS)

Revision date 06-Jul-2021 Revision Number 1.1

# 1. IDENTIFICATION

Product identifier

**Product Name** Foresight CHT Type I-40 Column

Other means of identification

Catalogue Number(s) 7324735, 7324755, 7324822, 7324823

Registration Number(s) No information available

Recommended use of the chemical and restrictions on use Recommended use Laboratory chemicals

Supplier's details

**Corporate Headquarters** Manufacturer Bio-Rad Laboratories Inc.

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USA USA

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# 2. HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

Acute aquatic toxicity	Category 3
Flammable liquids	Category 3

### GHS Label elements, including precautionary statements





Signal word Warning

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#### **Hazard statements**

Harmful to aquatic life

Flammable liquid and vapor

#### **Precautionary Statements - Prevention**

Avoid release to the environment

Ground and bond container and receiving equipment

Use non-sparking tools

Take action to prevent static discharges

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

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

### **Precautionary Statements - Response**

Skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]

Fire

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish

# **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep cool

### **Precautionary Statements - Disposal**

Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

#### Other hazards which do not result in classification

No information available

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Substance**

Not applicable

### **Mixture**

Chemical name	CAS No	Weight-%
Ethyl alcohol	64-17-5	19.5
64-17-5		

# 4. FIRST AID MEASURES

### Description of necessary first aid measures

**Inhalation** Remove to fresh air.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep

eye wide open while rinsing. Do not rub affected area.

**Ingestion** Rinse mouth thoroughly with water.

For emergency responders

**Self-protection of the first aider** Remove all sources of ignition. Ensure that medical personnel are aware of the material(s)

involved, take precautions to protect themselves and prevent spread of contamination. Use

personal protective equipment as required. See section 8 for more information.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of immediate medical attention and special treatment needed, if necessary

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**Note to physicians**Treat symptomatically.

# 5. FIREFIGHTING MEASURES

Suitable Extinguishing Media

Suitable Extinguishing Media Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the chemical

Specific hazards arising from the

chemical

Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective actions for fire-fighters

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

# 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Personal precautions Evacuate personnel to safe areas. Use personal protective equipment as required. See

section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the

product must be grounded. Do not touch or walk through spilled material.

Environmental precautions

**Environmental precautions** Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage

if safe to do so. Prevent product from entering drains.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor

suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other

non-combustible material and transfer to containers for later disposal.

Methods for cleaning up Take precautionary measures against static discharges. Dam up. Soak up with inert

absorbent material. Pick up and transfer to properly labeled containers.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

Other information Ventilate the area.

# 7. HANDLING AND STORAGE

# Precautions for safe handling

vapors or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this

material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions.

### Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from

heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

Exposure guidelines

Chemical name	ACGIH TLV	OSHA P	EL	(	Ontario	European Union
Ethyl alcohol	STEL: 1000 ppm	TWA: 1000	ppm	STEL	.: 1000 ppm	-
64-17-5		TWA: 1900	mg/m³			
		(vacated) TWA:	1000 ppm			
		(vacated) TWA: 1	900 mg/m <sup>3</sup>			
Chemical name	China	Japan Society of	Kor	ea	Australia	Taiwan
		Occupational Health				
Ethyl alcohol	-	=	TWA: 10	00 ppm	1000 ppm	TWA: 1000 ppm
64-17-5					1880 mg/m <sup>3</sup>	TWA: 1880 mg/m <sup>3</sup>
						STEL: 1000 ppm
						STEL: 1880 mg/m <sup>3</sup>

Appropriate engineering controls

Engineering controls Showers

Eyewash stations Ventilation systems.

#### Individual protection measures, such as personal protective equipment

**Eye/face protection** Tight sealing safety goggles.

**Skin and body protection** Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.

Antistatic boots.

**Hand protection** Wear suitable gloves. Impervious gloves.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Do not eat, drink or smoke when using this product. Contaminated work clothing should not

be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state Liquid

AppearanceSuspensionOdourAlcohol

Colour white Odour threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

Melting point / freezing point

No information available

Boiling point / boiling range

Flash point 36 °C / 96.8 °F

No information available
No information available

No information available

Flammability (solid, gas)

Upper/lower flammability or explosive limits
Upper flammability or explosive Not applicable

limits

**Evaporation rate** 

Lower flammability or explosive Not applicable

limits

Vapour pressureNo information availableVapour densityNo information availableRelative densityNo information available

Solubility(ies)

Water solubility

Partially miscible

Solubility in other solvents Partition coefficient Autoignition temperature Decomposition temperature

No information available No information available No information available

No information available

**Viscosity** 

Kinematic viscosity Dynamic viscosity No information available

Other information

Oxidising properties Not applicable

# 10. STABILITY AND REACTIVITY

Reactivity

**Reactivity** No information available.

Chemical stability

**Stability** Stable under normal conditions.

**Explosion data** 

Sensitivity to mechanical impact None Sensitivity to static discharge Yes.

Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

Conditions to avoid

**Conditions to avoid** Heat, flames and sparks.

Incompatible materials

**Incompatible materials**None known based on information supplied.

Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

# 11. TOXICOLOGICAL INFORMATION

Information on the likely routes of exposure

**Product Information** 

**Inhalation** Specific test data for the substance or mixture is not available.

**Eye contact** Specific test data for the substance or mixture is not available.

**Skin contact** Specific test data for the substance or mixture is not available.

**Ingestion** Specific test data for the substance or mixture is not available.

**Symptoms** No information available.

Acute toxicity

**Numerical measures of toxicity** 

### The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 34,958.20 mg/kg ATEmix (inhalation-dust/mist) 639.50 mg/l

**Component Information** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50		
Ethyl alcohol	= 7060 mg/kg (Rat)	-	= 124.7 mg/L (Rat) 4 h		

### Delayed and immediate effects and also chronic effects from short and long term exposure

**Skin corrosion/irritation**No information available.

Serious eye damage/irritation No information available.

**Respiratory or skin sensitization** No information available.

Germ cell mutagenicity No information available.

**Carcinogenicity** No information available.

Chemical name	IARC	
Ethyl alcohol	Group 1	

Reproductive toxicity No information available.

STOT - single exposure No information available.

**STOT - repeated exposure** No information available.

Target organ effects Liver, Respiratory system, Eyes, Skin, Central nervous system, Blood, Reproductive

system.

**Aspiration hazard** No information available.

# 12. ECOLOGICAL INFORMATION

### **Toxicity**

0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

**Ecotoxicity** Harmful to aquatic life.

Chemical name	Chemical name Algae/aquatic plants Fish		Crustacea		
Ethyl alcohol	-	LC50: 12.0 - 16.0mL/L (96h,	LC50: 9268 - 14221mg/L (48h,		
•		Oncorhynchus mykiss)	Daphnia magna)		

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		LC50: 13400 - 15100mg/L (96h,	EC50: =10800mg/L (24h, Daphnia
		Pimephales promelas)	magna)
-		LC50: >100mg/L (96h, Pimephales	EC50: =2mg/L (48h, Daphnia
		promelas)	magna)

### Persistence and degradability

No information available.

#### Bioaccumulative potential

There is no data for this product.

Mobility

Mobility in soil No information available.

**Mobility** No information available.

Chemical name	Partition coefficient
Ethyl alcohol	-0.32

### Other adverse effects

No information available.

# 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues/unused

products

Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging

Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld

containers.

# 14. TRANSPORT INFORMATION

IMDG Not regulated

Transport in bulk according to Annex II of MARPOL and the IBC

No information available

Code

IATA Not regulated

RID Not regulated

ADR Not regulated

ADN Not regulated

Special precautions for user Special provisions from the regulations relative to the specified mode of transport are noted

by numeric code. Refer to the regulations for the full text of special provisions.

# 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

**International Regulations** 

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

### The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

#### **International Inventories**

Contact supplier for inventory compliance status

# **16. OTHER INFORMATION**

Prepared By Bio-Rad Laboratories, Environmental Health and Safety

Revision date 06-Jul-2021

**Revision Note**\*\*\* Indicates this information has changed since the previous revision.

Key or legend to abbreviations and acronyms used in the safety data sheet

# Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

C Carcinogen

#### **Disclaimer**

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text

**End of Safety Data Sheet**