



SAFETY DATA SHEET

SECTION 1) CHEMICAL PRODUCT AND MANUFACTURER'S IDENTIFICATION

Product ID: ATCC® VR-1986HK™
Product Name: Heat-inactivated SARS-CoV-2
Revision Date: Sept. 15, 2020 **Date Printed:** Sept. 15, 2020
Version: 1.0 **Supersedes Date:** N.A.
Manufacturer's Name: American Type Culture Collection
Address: 10801 University Blvd., Manassas, VA, US, 20110-2209
Emergency Phone: 703-365-2710 or 800-424-9300 (Chemtrec - transport only)
Information Phone Number: 800-638-6597 or 703-365-2700
Fax: 703-365-2701
Product/Recommended Uses: For lab use only

SECTION 2) HAZARDS IDENTIFICATION

Classification of the substance or mixture

Not a hazardous substance or mixture according to United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200).

Hazard not otherwise classified (HNOC)

Biosafety Level 1 Agents not known to consistently cause disease in healthy adults and present minimal potential hazard to laboratory personnel and the environment.

SECTION 3) COMPOSITION / INFORMATION ON INGREDIENTS

This substance contains no ingredients at concentrations to be considered hazardous as defined by OSHA 29CFR 1910.1200 however this product should be handled according to good lab practices, with proper personal protective equipment, proper engineering controls and within the parameters of the purchaser's chemical hygiene plan.

SECTION 4) FIRST-AID MEASURES

Inhalation

Remove source of exposure or move person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell or are concerned.

4.1 Description of measures

Eye Contact

Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Flush eyes with water for 15-20 minutes while holding eyelids open. Take care not to rinse contaminated water into the unaffected eye or onto the face.

Skin Contact

Take off all contaminated clothing immediately, shoes and leather goods (e.g. watchbands, belts). If skin irritation occurs or rash occurs: Get medical advice/attention. Wash with soap and plenty of water. Wash contaminated clothing before re-use or discard.

Ingestion

Rinse mouth with water. Do not give anything by mouth to an unconscious person. Call a POISON CENTER/doctor if you feel unwell.

Most Important Symptoms/Effects, Acute and Delayed

Refer to Sec. 2 and 11

Indication of Immediate Medical Attention and Special Treatment Needed

No data available.

SECTION 5) FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Dry chemical, foam, carbon dioxide, water-spray or alcohol-resistant foam. Use caution when applying carbon dioxide in confined spaces.

Specific Hazards arising from substance or mixture

No data available.

Advice for Firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further Information

No data available.

SECTION 6) ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Avoid breathing vapors, mist or gas. Avoid dust/aerosol formation. Isolate hazard area and keep unauthorized personnel away. For personal protection see section 8.

Environmental Precautions

Stop spill/release if it can be done safely. Do not allow product to reach ground water, water course or sewage system.

Methods and Materials for Containment and Cleanup

Allow aerosols to settle; wearing protective clothing, gently cover spill with paper towel and apply 10% sodium hypochlorite solution, starting at perimeter and working towards the center; allow sufficient contact time before clean up (30 min)
Absorb spill with inert material (e.g. Vermiculite, sand, earth) then place in a suitable container. Clean up spills immediately, observing precautions in the Sections 6 and 8. Provide ventilation. The use of additional PPE may be necessary for cleaning solutions.

SECTION 7) HANDLING AND STORAGE

Precautions for safe handling

Provide appropriate exhaust ventilation. See sec. 2 for additional precautions.

Conditions for safe storage, including any incompatibilities

Store in dry, well-ventilated areas. Keep containers securely sealed when not in use.

Specific end use(s)

Follow established laboratory procedures when handling material

SECTION 8) EXPOSURE CONTROLS / PERSONAL PROTECTION

Appropriate Engineering Controls

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

Eye Protection

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

Skin 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.

Body Protection

Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiration Protection

Respiratory protection not required.

Control Parameters

Chemical Name	OSHA TWA (ppm)	OSHA TWA (mg/m3)	OSHA STEL (ppm)	OSHA STEL (mg/m3)	OSHA Tables (Z1, Z2, Z3)	OSHA Carcinogen	OSHA Carcinogen_Threshold - Thresholds for OSHA Carcinogens	OSHA Skin designation
No applicable chemical	-	-	-	-	-	-	-	-

Chemical Name	NIOSH TWA (ppm)	NIOSH TWA (mg/m3)	NIOSH STEL (ppm)	NIOSH STEL (mg/m3)	NIOSH Carcinogen	ACGIH TWA (ppm)	ACGIH TWA (mg/m3)	ACGIH STEL (ppm)
No applicable chemical	-	-	-	-	-	-	-	-

Chemical Name	ACGIH STEL (mg/m3)	ACGIH Carcinogen	ACGIH TLV Basis	ACGIH Notations
No applicable chemical	-	-	-	-

SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Frozen

Appearance	No Data Available
Odor Threshold	No Data Available
Odor Description	No Data Available
pH	No Data Available
Water Solubility	No Data Available
Flammability	N/A
Flash Point Symbol	No Data Available
Flash Point	No Data Available
Viscosity	No Data Available
Lower Explosion Level	No Data Available
Upper Explosion Level	No Data Available
Vapor Pressure	No Data Available
Vapor Density	No Data Available
Freezing Point	No Data Available
Melting Point	No Data Available
Low Boiling Point	No Data Available
High Boiling Point	No Data Available
Auto Ignition Temp	No Data Available
Decomposition Pt	No Data Available
Evaporation Rate	No Data Available
Coefficient Water/Oil	No Data Available

Other Information

No data available.

SECTION 10) STABILITY AND REACTIVITY

Stability

Stable under recommended handling and storage conditions

Reactivity

No data available.

Conditions to Avoid

No data available

Hazardous Reactions/Polymerization

Hazardous polymerization will not occur.

Incompatible Materials

No data available

Hazardous Decomposition Products

No data available.

SECTION 11) TOXICOLOGICAL INFORMATION

Likely Route of Exposure

Inhalation, ingestion, skin absorption

Acute Toxicity

No data available.

Skin Corrosion/Irritation

No data available.

Serious Eye Damage/Irritation

No data available.

Respiratory/Skin Sensitization

No data available.

Germ Cell Mutagenicity

No data available.

Carcinogenicity

No data available.

Reproductive Toxicity

No data available.

Specific Target Organ Toxicity - Single Exposure

No data available.

Specific Target Organ Toxicity - Repeated Exposure

No data available.

Aspiration Hazard

No data available.

SECTION 12) ECOLOGICAL INFORMATION

Toxicity

No data available.

Persistence and Degradability

No data available.

Bio-accumulative Potential

No data available.

Mobility in Soil

No data available.

Other Adverse Effects

No data available.

SECTION 13) DISPOSAL CONSIDERATIONS

Waste Disposal

Product - Offer surplus and non-recyclable solutions to a licensed disposal company. Contaminated packaging: Dispose of as unused product.

SECTION 14) TRANSPORT INFORMATION

U.S. DOT Information

UN number: Not Regulated
Proper shipping name: Not applicable
Hazard class: Not applicable
Packing group: Not applicable
Marine Pollutant: Not applicable
Hazardous substance (RQ): Not applicable
Note / Special Provision: Not applicable
Toxic-Inhalation Hazard: Not applicable

IMDG Information

UN number: Not Regulated
Proper shipping name: Not applicable
Hazard class: Not applicable
Packing group: Not applicable
Marine Pollutant: Not applicable
Note / Special Provision: Not applicable

IATA Information

UN number: Not Regulated
Proper shipping name: Not applicable
Hazard class: Not applicable
Packing group: Not applicable
Note / Special Provision: Not applicable

SECTION 15) REGULATORY INFORMATION

Regulatory Information

The following regulations have been evaluated for this product: DSL, EU_EC_Inventory, EU_EINECS, EU_ELINCS, EU_IOELV, EU_NLP, IARC Carcinogen, and TSCA. This substance is not listed on the TSCA Inventory. It is for research and development use only. This substance is not SARA listed.

SECTION 16) OTHER INFORMATION

Glossary

ACGIH - American Conference of Governmental Industrial Hygienists
BSC - Biological Safety Cabinet
CAS - Chemical Abstract Service
Chemtrec - Chemical Transportation Emergency Center(US)
CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act
HEPA - High efficiency particulate air
LC - Lethal Concentration

LD - Lethal Dose
N/A - No data available
NIOSH - National Institute for Occupational Safety and Health
OEL - Occupational Exposure Limits
OSHA - Occupational Safety and Health Administration, US Department of Labor
PEL - Permissible Exposure Limit
SARA (Title III)- Superfund Amendments and Reauthorization Act
SARA 313 - Superfund Amendments and Reauthorization Act, Section 313
SCBA - Self Contained Breathing Apparatus
STEL - Short Term Exposure Limit
TLV - Threshold Limit Value
TSCA - Toxic Substances Control Act Public Law 94-469
TWA - Time Weighted Average
US DOT - US Department of Transportation

DISCLAIMER

ATCC warrants that (a) cells and microorganisms included in the ATCC Material shall be viable upon initiation of culture for a period of thirty (30) days after shipment thereof from ATCC and (b) any ATCC Material other than cells and microorganisms shall meet the specifications on the applicable ATCC Material product information sheet, certificate of analysis, and/or catalog description until the expiration date on the applicable ATCC Material's product label (such thirty (30) day period, or period until the expiration date, referred to herein as the "Warranty Period"). Purchaser's exclusive remedy, and ATCC's sole liability, for breach of the warranties set forth in this paragraph is for ATCC to, at ATCC's sole option, either (i) refund the fee paid to ATCC for such ATCC Material (exclusive of shipping and handling charges), or (ii) replace the ATCC Material. The warranties set forth in this paragraph apply only if Purchaser handles and stores the ATCC Material as described in the applicable ATCC Material product information sheet. To obtain the exclusive remedy, Purchaser must report the lack of viability or non-conformance to specifications to ATCC's Technical Service Department within the applicable Warranty Period. Any expiration date specified on the ATCC Material shipment documentation states the expected remaining useful life, but does not constitute a warranty or extend any applicable Warranty Period. Except as expressly provided above, the ATCC Material and any technical information and assistance provided by ATCC are provided as-is, without warranties of any kind, express or implied, including but not limited to any implied warranties of merchantability, fitness for a particular purpose, typicality, safety, accuracy and/or non-infringement.