

Material Safety Data Sheet

Date of Issue : June 10, 2019

Date of Revision : January 4, 2021

Version No. : 3.3

SECTION 1. Product and Company Information

Foodborne Pathogen Detection Kit

SMARTCHEK® Salmonella spp. Detection Kit for GENECHECKER® (Cat #. 9799150100)

SMARTCHEK® Listeria Monocytogenes Detection Kit for GENECHECKER® (Cat #. 9799150200)

SMARTCHEK® E-Coli O-157 Detection Kit for GENECHECKER® (Cat #. 9799150300)

SMARTCHEK® Campylobacter jejuni Detection Kit for GENECHECKER® (Cat #. 9799150400)

Company	Genesystem Co., Ltd.
Address	200-9, Techno 2-ro, Yuseong-gu, Daejeon, 34028, Republic of Korea
Phone	+82 42 863 8551
Fax	+82 42 863 8553

SECTION 2. Hazards Identification

NOT APPLICABLE (Nonhazardous Compositions)

This product is not regulated as a hazardous material by the IATA transportation regulations.

Emergency Overview :

May cause eye or skin irritation upon prolonged contact.

Will not burn but if involved in a fire can produce toxic gases.

Use extinguishing media appropriate to surrounding fire conditions.

Route of Entry :	Skin, Eyes
Eye Contact :	Not expected to be an irritant under normal use conditions.
Skin Contact :	Not expected to be an irritant under normal use conditions.
Ingestion :	May upset the gastro-intestinal tract.

SECTION 3. Composition/Information on Ingredient

This product does not contain more than 1% of a component classified as hazardous and do not contain more than 0.1% of a component classified as carcinogenic.

This product contains no substances which at their given concentration are considered to be hazardous to health. Therefore, Genesystem does not provide a MSDS for this product.

However, when working with these or any chemical reagents, we always recommend the use of gloves, lab coats and eye protection.

SECTION 4. First-aid Measures

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

If inhaled, remove to fresh air. If not, breathing give artificial respiration.

In case of contact, immediately wash skin with soap and copious amounts of water.

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

SECTION 5. Fire fighting measures

Extinguishing Media

Water spray, carbon dioxide, dry chemical powder or appropriate foam

Special Firefighting procedures

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes

Unusual fire and explosions hazards

Emits toxic fumes under fire conditions

SECTION 6. Accidental Release Measures

Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves.

Absorb on sand or vermiculite and place in closed containers for disposal.

Ventilate area and wash spill site after material pickup is complete.

SECTION 7. Handling and Storage

Handling : Wear appropriate protective equipment. Use good laboratory practices. Wash thoroughly after handling. Keep container closed.

Storage

PCR master mix, positive control kits and SMARTCHEK kits : Store at -25°C ~ -20°C

Rapi:Direct™ Lysis Buffer, Rapi:Prep™ gDNA Extraction Kit, Swab:Direct™ Lysis Kit :Store at room temperature.

SECTION 8. Exposure Controls / Personal Protection

Mechanical exhaust required.

Safety shower and eye bath

Wash thoroughly after handling.

Do not breathe vapor.

Avoid contact with eyes, skin and clothing

Avoid prolonged or repeated exposure.

NIOSH/MSHA-approved respirator

Compatible chemical-resistant clothes

Chemical safety goggles

Keep tightly closed.

SECTION 9. Physical and Chemical Properties

General Information

Form : Liquid

Color : Colorless

Odor : None

pH : Neutral

Boiling Point : The lowest known values is 99.9°C(Water)

Melting Point : May start to solidify at -0.1°C based on data for water.

Flash Point : Non applicable

Density : The only known value is "1".

Solubility : Miscible in water

SECTION 10. Stability and Reactivity

Stability : Stable

Incompatibilities : Strong oxidizing agent

Hazardous combustion or decomposition products
Nature of decomposition products not known.

Hazardous Polymerization : Will not occur

SECTION 11. Toxicological Information

Acute Effects

Causes skin irritation.

May be harmful if absorbed through the skin.

Causes eye irritation.

Material is irritating to mucous membranes and upper respiratory tract.

May be harmful if inhaled.

May be harmful if swallowed.

Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

SECTION 12. Ecological Information

No information available on product.

SECTION 13. Disposal Considerations

Contact a licensed professional waste disposal service to disposal of this material.

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Observe all relevant environmental regulations.

SECTION 14. Transport Information

Land and Road/Railway : This product is not classified according to ADR/RID

Inland waterways : This product is not classified according to ADN

Sea : This product is not classified according to IMDG

Air : This product is not classified according to IATA

National transport Regulations : No additional national transport regulations are known to the supplier

SECTION 15. Regulatory Information

SECTION 313 (Specific Toxic Chemical Listings) : None of the ingredients is listed.

Chemicals known to cause cancer : None of the ingredients is listed.

Chemicals known to cause reproductive toxicity : None of the ingredients is listed.

Carcinogenicity categories

EPA(Environmental Protection Agency) : None of the ingredients is listed.

IARC(International Agency for Research on Cancer) : None of the ingredients is listed.

NTP(National Toxicology Program) : None of the ingredients is listed.

TLV(Threshold Limit Value Established by ACCIH) : None of the ingredients is listed.

MAK(German Maximum Workplace Concentration) : None of the ingredients is listed.

NIOSH-CA(National Institute for Occupational Safety and Health) : None of the ingredients is listed.

OSHA-CA(Occupational Safety & Health Administration) : None of the ingredients is listed.

Product Related Hazard Information :

The product has been classified and marked in accordance with directives on hazardous materials.

Safety Phrases :

Keep away from food, drink and animal feeding stuffs.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

wear suitable protective clothing and gloves.

If swallowed, seek medical advice immediately and show this container or label.

Water Hazard Class : Water hazard class 1 (Self-assessment)

Hazardous for water

SECTION 16. Other Information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Genesystem shall not be held liable for any damage resulting from handling or from contact with the above product.