

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA
GHS

Printing date: 21 June 2020

Revision: 21 June 2020

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:** Total Bacteria Kit Component 3
- **Article number:** 14650-3
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture:** Laboratory chemicals
- **1.3 Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**
Bentley Instruments, Inc.
4004 Peavey Rd (Physical Plant)
P.O. Box 150 (Mailing Address)
Chaska, MN 55318 USA
Tel (952) 448-7600
- **1.4 Emergency telephone number:**
ChemTel Inc.
(800) 255-3924 (North America)
(801) 1 (813)248-0585 (International)



SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
The product is not classified as hazardous according to OSHA GHS regulations within the United States.
The product is not classified as hazardous according to the CLP regulation.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is not classified as hazardous according to the CLP regulation.
The product is not classified as hazardous according to OSHA GHS regulations within the United States.
- **Hazard pictograms** Not Regulated
- **Signal word** Not Regulated
- **Hazard statements** Not Regulated.
- **Precautionary statements** Not Regulated.
- **Additional information:**
Safety data sheet available on request.
- **NFPA ratings (scale 0 - 4)**



Health = 0
Fire = 0
Reactivity = 0

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· **HMIS-ratings (scale 0 - 4)**

HEALTH	0	Health = 0
FIRE	0	Fire = 0
REACTIVITY	0	Reactivity = 0

- **2.3 Other hazards** There are no other hazards not otherwise classified that have been identified.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**

· **Components:**

CAS: 25535-16-4 EINECS: 247-081-0	Propidium Iodide Muta. 2, H341; STOT RE 2, H373	<1,0%
CAS: 26628-22-8 EINECS: 247-852-1 Index number: 011-004-00-7 Reg.nr.: 01-2119457019-37-XXXX	sodium azide Acute Tox. 2, H300; Acute Tox. 2, H310 STOT RE 2, H373 Aquatic Chronic 1, H410	<0,1%

- **Additional information:** For the wording of the listed Hazard Statements refer to section 16.

SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **After inhalation:**

Supply fresh air or oxygen; call for doctor.
Provide oxygen treatment if affected person has difficulty breathing.
In case of irregular breathing or respiratory arrest provide artificial respiration.
Do not use mouth to mouth or mouth to nose resuscitation.
In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:**

Clean with water and soap.
If skin irritation continues, consult a doctor.

· **After eye contact:**

Rinse opened eye for several minutes under running water.
Remove contact lenses if worn.
Seek immediate medical advice.

· **After swallowing:**

Do not induce vomiting; call for medical help immediately.
Drink plenty of water and provide fresh air. Call for a doctor immediately.

· **4.2 Most important symptoms and effects, both acute and delayed**

Headache
Nausea

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Cramp
Dizziness
Methaemoglobinaemia
Cyanosis
Disorientation

· **Hazards:**

Danger of cerebral oedema.
Danger of convulsion.
Danger of disturbed cardiac rhythm.

· **4.3 Indication of any immediate medical attention and special treatment needed**

Contains sodium azide.. Consult literature for specific antidotes.
If necessary oxygen respiration treatment.
Medical supervision for at least 48 hours.
If blue colouring appears (lips, ear-lobes, finger-nails), give oxygen treatment as quickly as possible.

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents:** CO₂, powder or water spray. Fight larger fires with water spray.
· **For safety reasons unsuitable extinguishing agents:** None.

· **5.2 Special hazards arising from the substance or mixture**

During heating or in case of fire poisonous gases are produced.

· **5.3 Advice for firefighters**

· **Protective equipment:**

Wear self-contained respiratory protective device.
Wear fully protective suit.

· **Additional information:** Cool endangered receptacles with water fog or haze.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

Use respiratory protective device against the effects of fumes/dust/aerosol.

Ensure adequate ventilation

Wear protective equipment. Keep unprotected persons away.

· **6.2 Environmental precautions**

Dilute with plenty of water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· **6.3 Methods and material for containment and cleaning up**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Send for recovery or disposal in suitable receptacles.

· **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.

· **Information about fire - and explosion protection:** No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

Avoid storage near extreme heat, ignition sources or open flame.
Store in a cool location.

Information about storage in one common storage facility:

Store away from metals.
Store away from foodstuffs.

Further information about storage conditions:

Protect from frost.
Storage Temperatures : 36-46 °F / 2-8 °C.

Keep container tightly sealed.

· **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

26628-22-8 sodium azide

IOELV (EU)	Short-term value: 0,3 mg/m ³ Long-term value: 0,1 mg/m ³ Skin
REL (USA)	Short-term value: C 0,3** mg/m ³ , C 0,1* ppm *as HN ₃ ; **as NaN ₃ ; Skin
TLV (USA)	Short-term value: C 0,29** mg/m ³ , C 0,11* ppm *as HN ₃ vapor **as NaN ₃
EL (Canada)	Short-term value: C 0,29* mg/m ³ , C 0,11** ppm *sodium azide;**hydrazoic acid vapour

· **DNELs:** No further relevant information available.

· **PNECs:** No further relevant information available.

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.
Keep away from foodstuffs, beverages and feed.

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Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

· **Respiratory protection:**

Not required under normal conditions of use.

Use suitable respiratory protective device when aerosol or mist is formed.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· **For the permanent contact gloves made of the following materials are suitable:**

Butyl rubber, BR

Neoprene gloves

Nitrile rubber, NBR

Natural rubber, NR

· **Eye protection:**



Safety glasses

· **Body protection:**

Apron

Light weight protective clothing

· **Limitation and supervision of exposure into the environment:**

No further relevant information available.

· **Risk management measures:** No further relevant information available.

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **Appearance**

Form: Liquid

Colour: Pink

· **Odour:** Odourless

· **Odour threshold:** Not determined.

· **pH-value at 20 °C (68 °F):** 8,5

· **Melting point/freezing point:** Not determined.

· **Initial boiling point and boiling range:** 100 °C

· **Flash point:** Not applicable.

· **Flammability (solid, gas):** Not applicable.

· **Auto/Self-ignition temperature:** Not determined.

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· Decomposition temperature:	Not determined.
· Explosive properties:	Product does not present an explosion hazard.
· Explosion limits	
Lower:	Not determined.
Upper:	Not determined.
· Oxidising properties	Non-oxidising.
· Vapour pressure:	Not determined.
· Density:	
Relative density:	1,0
Vapour density:	Not determined.
Evaporation rate:	Not determined.
· Solubility in / Miscibility with water:	Fully miscible.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity	
Dynamic:	Not determined.
Kinematic:	Not determined.
· 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions**
Toxic fumes may be released if heated above the decomposition point.
Contact with acids releases toxic gases.
Contact with acids releases flammable gases.
Reacts with various metals.
- **10.4 Conditions to avoid**
Store away from oxidising agents.
Keep away from heat and direct sunlight.
- **10.5 Incompatible materials**
Oxidisers
Strong acids.
- **10.6 Hazardous decomposition products**
Phosphorus oxides (e.g. P₂O₅)
Carbon monoxide and carbon dioxide

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Nitrogen oxides

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

· **Acute toxicity:** Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

26628-22-8 sodium azide

Oral	LD50	27 mg/kg (rat)
Dermal	LD50	20 mg/kg (rabbit)

Primary irritant effect

· **Skin corrosion/irritation:** Slight irritant effect on skin and mucous membranes.

· **Serious eye damage/irritation:** Slight irritant effect on eyes.

· **Respiratory or skin sensitisation:** Based on available data, the classification criteria are not met.

Carcinogenic categories

IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

NTP (National Toxicology Program):

None of the ingredients are listed.

OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

Probable routes of exposure:

Eye contact.
Skin contact.

· **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.

· **Carcinogenicity:** Based on available data, the classification criteria are not met.

· **Reproductive toxicity:** Based on available data, the classification criteria are not met.

· **STOT-single exposure:** Based on available data, the classification criteria are not met.

· **STOT-repeated exposure:** Based on available data, the classification criteria are not met.

· **Aspiration hazard:** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1 Toxicity

· **Aquatic toxicity:** The product contains materials that are harmful to the environment.

· **12.2 Persistence and degradability** No further relevant information available.

· **12.3 Bioaccumulative potential** No further relevant information available.

· **12.4 Mobility in soil** No further relevant information available.

Ecotoxicological effects:

· **Remark:** The product is oxygen-consuming. The declared action may be partly caused by lack of oxygen.

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- **Additional ecological information:**
- **General notes:**
This statement was deduced from the properties of the single components.
Avoid transfer into the environment.
Due to available data on eliminability/decomposition and bioaccumulation potential, a prolonged damage of the environment is unlikely.
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

- | | |
|---|-----------------|
| <ul style="list-style-type: none"> · 14.1 UN-Number · DOT, ADR, IMDG, IATA | Not Regulated |
| <ul style="list-style-type: none"> · 14.2 UN proper shipping name · DOT, ADR, IMDG, IATA | Not Regulated |
| <ul style="list-style-type: none"> · 14.3 Transport hazard class(es) · DOT, ADR, IMDG, IATA · Class | Not Regulated |
| <ul style="list-style-type: none"> · 14.4 Packing group · DOT, ADR, IMDG, IATA | Not Regulated |
| <ul style="list-style-type: none"> · 14.5 Environmental hazards: · Marine pollutant: | No |
| <ul style="list-style-type: none"> · 14.6 Special precautions for user | Not applicable. |

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- | | |
|--|-----------------|
| <ul style="list-style-type: none"> · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable. |
|--|-----------------|

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **United States (USA)**
- **SARA**

<ul style="list-style-type: none"> · Section 355 (extremely hazardous substances):
--

None of the ingredients are listed.

<ul style="list-style-type: none"> · Section 313 (Specific toxic chemical listings):
--

None of the ingredients are listed.

<ul style="list-style-type: none"> · TSCA (Toxic Substances Control Act):

All ingredients are listed or exempt.

<ul style="list-style-type: none"> · Proposition 65 (California):

<ul style="list-style-type: none"> · Chemicals known to cause cancer:

None of the ingredients are listed.

<ul style="list-style-type: none"> · Chemicals known to cause reproductive toxicity for females:
--

None of the ingredients are listed.

<ul style="list-style-type: none"> · Chemicals known to cause reproductive toxicity for males:
--

None of the ingredients are listed.

<ul style="list-style-type: none"> · Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

<ul style="list-style-type: none"> · Carcinogenic Categories
--

<ul style="list-style-type: none"> · EPA (Environmental Protection Agency)
--

None of the ingredients are listed.

<ul style="list-style-type: none"> · IARC (International Agency for Research on Cancer)

None of the ingredients are listed.

<ul style="list-style-type: none"> · NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients are listed.

<ul style="list-style-type: none"> · Canadian Domestic Substances List (DSL)
--

All ingredients are listed or exempt.

<ul style="list-style-type: none"> · National regulations:
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- **Water hazard class:** Water hazard class 1: slightly hazardous for water.

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· **Other regulations, limitations and prohibitive regulations**

· **Substances of very high concern (SVHC) according to REACH, Article 57**

None of the ingredients are listed.

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H300 Fatal if swallowed.

H310 Fatal in contact with skin.

H341 Suspected of causing genetic defects.

H373 May cause damage to organs through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

· **Abbreviations and acronyms:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bio-accumulable, Toxique

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

NIOSH: l'Institut national de recherche sur la sécurité et la santé au travail / National Institute for Occupational Safety (États-Unis)

OSHA: Occupational Safety & Health Administration

Acute Tox. 2: Acute toxicity – Category 2

Muta. 2: Germ cell mutagenicity – Category 2

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

· **Sources**

Website, European Chemicals Agency (echa.europa.eu)

Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)

Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)

Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaassen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

SDS Prepared by:

ChemTel Inc.

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