

# SAFETY DATA SHEET

Original Preparation Date: 03/15/2022 SDS#: GS-33542 Rev.A Revision Date: 03/28/2022

1.Identification

Product identifier All Genemed® CISH Probes

Other means of identification

**Product code** 70-0027-15, 70-0028-15, 70-0029-15, 70-0030-15, 70-0031-15

Recommended use N/A

Recommended None known

restrictions

Manufacturer/Importer/Supplier/Distributor information

Manufacturer/Supplier Sakura Finetek USA, Inc.

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### 2.Hazard(s) identification

Physical hazards N/A

Health hazards GHS classification in accordance with: OSHA (29 CFR 1910.1200)

- Carcinogenicity, Cat. 2

- Specific target organ toxicity (repeated exposure), Cat. 2

- Toxic to reproduction, Cat. 1A

Label elements

**Hazard symbol** 



Signal word Danger

Hazard statement H351 Suspected of causing cancer [route]

H360 May damage fertility or the unborn child [effect, route]

H373 May cause damage to organs [organs] through prolonged or repeated

exposure [route]

**Precautionary statement** 

**Prevention** P201 Obtain special instructions before use.

Do not handle until all safety precautions are read and understood.

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection

**Response** P308+P313 IF exposed or concerned: Get medical advice/attention.

P314 Get medical advice/attention if you feel unwell.

Storage P405 Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Keep cool. Store locked up. Store at 2C-8C.

**Disposal** P501 Dispose of contents/container in accordance with

local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None Known

#### 3. Composition/information on ingredients

Mixtures: Mixtures

Chemical name **CAS** number EC No. %

Formamide 75-12-7 200-842-0 20-40%

\*The specific chemical identities and/or actual concentrations or actual concentration ranges for one or more listed components are being withheld as trade secrets under the US regulation 29 CFR 1910.1200(i).

#### 4. First-aid measures

Inhalation Call a poison center or doctor if you feel unwell.

> Acute and delayed symptoms and effects: May cause respiratory irritation. Signs/symptoms may include cough, sneezing, nasal discharge, headache,

hoarseness, and nose and throat pain

Skin contact Wash with plenty of soap and water for at least 15 minutes. Call a poison

center or doctor if you feel unwell.

Acute and delayed symptoms and effects: May cause skin irritation. Signs/symptoms may include localized redness, swelling, and itching. Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a

poison center or doctor

Ingestion Call a poison center or doctor if you feel unwell. If vomiting occurs

> naturally, have victim lean forward to reduce the risk of aspiration. Do NOT induce vomiting unless directed to do so by medical personnel. Never give

anything by mouth to an unconscious person

Most important symptoms/ effects, acute and delayed

Eye contact

Acute and delayed symptoms and effects: May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset,

nausea, vomiting and diarrhea

The most important known symptoms and effects are described in the

labelling (see section 2) and/or in section 11

# 5. Fire-fighting measures

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

Unsuitable extinguishing

media

Specific hazards arising

from the chemical Special protective

equipment/ precautions for

firefighters

Hydrogen chloride gas, Sodium oxides. Nitrogen oxides (NOx) Sodium oxides

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire-fighting equipment/

instructions

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Cool containers exposed to heat with water spray

and remove container, if no risk is involved.

Specific methods Use standard firefighting procedures and consider the hazards of other involved

materials.

General fire hazards Not a flammable material

# 6.Accidental release measures

Personal precautions, protective equipment and emergency procedures

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use personal protection recommended in Section 8.

As an immediate precautionary measure, isolate spill or leak area in all directions. Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate enclosed areas.

Methods and materials for containment and cleaning up **Environmental precautions** 

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Avoid discharge into drains, water courses or onto the ground.

#### 7. Handling and storage

Precautions for safe

handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. For precautions

see section 2.

Conditions for safe storage, including any

incompatibilities

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

must be carefully resealed and kept upright to prevent leakage.

#### 8. Exposure controls/personal protection

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components Value **Form** ype Formamide PEL-TWA (Inhalation) Cal/OSHA 10 ppm (18mg/m3) (skin) REL-TWA (Inhalation) 10 ppm (15 mg/m3) NIOSH

TLV® (Inhalation) 10 ppm (skin) **ACGIH** 

Appropriate engineering controls Use ventilation adequate to keep exposures (airborne levels of

dust, fume, vapor, gas, etc.) below recommended exposure limits.

Individual protection measures, such as personal protective equipment

Eye/face protection Safety glasses if there is a splash hazard. Use equipment for eye

protection tested and approved under appropriate government

standards such as NIOSH (US) or EN 166(EU)

Hand protection Wear appropriate chemical resistant gloves.

Other Wear suitable protective clothing.

Respiratory protection Not required under normal use conditions. Where risk assessment shows

air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) 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). Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European

Standard EN 149.

Thermal hazards No data available.

General hygiene considerations When using do not smoke. Always observe good personal hygiene

> measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Do not let product enter drains

# 9. Physical and chemical properties

**Appearance** 

Physical state Clear Liquid

Color Pink

Odor No data available

Hq

Melting point/freezing point No data available Initial boiling point and boiling range No data available Flash point No data available **Evaporation rate** No data available Flammability (solid, gas) Not applicable Vapor pressure No data available Vapor density No data available Relative density No data available

Solubility (water) Soluble Auto-ignition temperatureNo data availableDecomposition temperatureNo data availableViscosityNo data availableExplosive propertiesNo data availableOxidizing propertiesNo data available

# 10. Stability and reactivity

**Reactivity**The product is stable and non-reactive under normal conditions of use,

storage and transport.

**Chemical stability** Material is stable under normal conditions.

**Possibility of hazardous reactions** No data available.

Conditions to avoid Avoid exposure to heat and sources of ignition.. Avoid contact with

incompatible materials.

Incompatible materials FORMAMIDE: Bases, Oxidizing agents, Hydrogen peroxide,

Iodine, Pyridine, Sulphur oxides

Hazardous decomposition products No data available

# 11. Toxicological information

#### Information on likely routes of exposure

Inhalation May cause respiratory irritation. Signs/symptoms may include

cough, sneezing, nasal discharge, headache, hoarseness, and

nose and throat pain.

**Skin contact** Prolonged skin contact may cause temporary irritation.

Eye contact No data available

Ingestion May cause gastrointestinal irritation. Signs/symptoms may include

abdominal pain, stomach upset, nausea, vomiting and diarrhea No data available

Symptoms related to the physical,

chemical and toxicological

characteristics

Information on toxicological effects

**Acute toxicity** Harmful if swallowed. May cause an allergic skin reaction.

 Components
 Species
 Test Results

 Formamide
 LD50 Oral Rat 5,325 mg/kg

 LC50 Inhalation Rat > 21 mg/l - 4 h

 LD50 Skin Rabbit 17,000 mg/kg

 Oral Rat

Result: Presumed human reproductive toxicant. Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants). Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).

NOAEL Oral - Rat - 40 mg/kg

Skin corrosion/irritation May cause skin irritation. Signs/symptoms may include localized

redness, swelling, and itching

Serious eye damage/eye irritation May cause eye irritation. Signs/symptoms may include redness,

swelling, pain, tearing, and blurred or hazy vision.

Respiratory or skin sensitization

Respiratory sensitizationNo data availableSkin sensitizationNo data available

Germ cell mutagenicity May cause harm to unborn child. Possible risk of impaired fertility

Carcinogenicity Possible cancer hazard. May cause cancer based on animal data

IARC Monographs. Overall Not listed

Evaluation of Carcinogenicity

NTP Report on Carcinogens Not listed.

OSHA Specifically Regulated Not listed.

Substances (29 CFR 1910.1001-1050)

**Reproductive toxicity** May cause reproductive or developmental effects.

Specific target organ toxicity - single

exposure

No data available

Specific target organ toxicity -

repeated exposure Repeated dose toxicity Liver, kidney, blood

No data available.

**Aspiration hazard** Not an aspiration hazard.

Chronic effects

No data available

Additional effects

No data available.

### 12. Ecological information

**Ecotoxicity** Components, Species and Test Results are listed below:

Formamide:

Freshwater Algae: EC50: > 500 mg/L, 96h (Desmodesmus subspicatus) EC50: > 500 mg/L, 72h (Desmodesmus

subspicatus)

Freshwater Fish: LC50: = 9135 mg/L, 96h static (Brachydanio rerio) LC50: 4600 - 9300 mg/L, 96h static (Leuciscus

dus)

Microtox: EC50 > 10000 mg/L 17 h

Water Flea: EC50: > 500 mg/L, 48h (Daphnia magna)

Persistence and degradability Persistence is unlikely

Bioaccumulative potential No data available

Mobility in soil Will likely be mobile in the environment due to its water solubility

Other adverse effects No additional information is known

**Log Pow** -0.82 (formamide)

13.Disposal considerations

**Disposal instructions**Collect and reclaim or dispose in sealed containers at licensed waste

disposal site. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Local disposal regulations Hazardous waste code

Dispose in accordance with all applicable regulations.

The waste code should be assigned in discussion between the user, the

producer and the waste disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be

disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings

even after container is emptied. Empty containers should be taken to an

approved waste handling site for recycling or disposal

#### 14. Transport information

DOTNot dangerous goodsIMDGNot dangerous goodsIATANot dangerous goods

#### 15. Regulatory information

**US** federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

**Superfund Amendments and** Reauthorization Act of 1986 (SARA) Fire Hazard - no Pressure Hazard - No Reactivity Hazard - No Not listed.

SARA 302 Extremely hazardous

substance

SARA 311/312 Hazardous chemical Chronic Health Hazards

SARA 313 (TRI reporting)

Not regulated

**US** state regulations

**Massachusetts Right To Know** 

Components

**New Jersey Right To Know** 

Components

Pennsylnania Right To Know

Components

Clean Air Act (CAA) Section 112 **Hazardous Air Pollutants (HAPs) List** Clean Air Act (CAA) Section 112(r) **Accidental Release Prevention (40** 

CFR 68.130

Safe Drinking Water Act (SDWA)

**US. California Proposition 65** 

Chemical name: Formamide

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Not regulated

Not regulated

Not regulated

This material is not known to contain

any chemicals currently listed as carcinogens or reproductive toxins.

# 16. Other information, including date of preparation or last revision

Issue date

**Revision date** 

Version #

**NFPA** ratings



#### **Disclaimer**

Sakura Finetek USA Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

# **Appendix 1** List of Genemed ASR prediluted ISH probes

Abbr. Industrial known names for easy search

Product codes	Product identifiers	FDA Classification	Formats available	Abbr.
70-0027-15	Genemed® CISH Kappa Probe	ASR	Р	Карра
70-0028-15	Genemed® CISH Lambda Probe	ASR	Р	Lambda
70-0029-15	Genemed® CISH EBER Probe	ASR	Р	EBER
70-0030-15	Genemed® CISH mRNA Positive Control Probe	ASR	Р	CISH Pos Control
70-0031-15	Genemed® CISH mRNA Negative Control Probe	ASR	Р	CISH Neg Control