

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/ UNDERTAKING**1.1. Product Identifier**

Product form: mixture

Trade name: Chemink® IK70FSs Part B; IK71FSs Part B

1.2. Relevant identified uses of the substance or mixture and uses against**1.2.1. Relevant identified uses of the substance or mixture:**

Ink designed for manufacturing chemical indicators for Gamma Radiation sterilization processes and for printing in Serigraphy (S), Flexography (F) and other printing techniques.

1.2.2. Uses advised against:

Do not use for purposes other than manufacture of chemical indicators.

1.3. Details of the supplier of the safety sheet

Manufacturer: Terragene S.A.

Address: Ruta Nacional N° 9, Km 280 - CP 2130 - Parque Industrial Micropi - Alvear - Santa Fe - Argentina

Produced by: QA&RA Department

Info Telephone: +54 341 5587007 | 5587008 | 5587009

E-mail: info@terragene.com

Web Page: www.terragene.com

1.4. Emergency telephone

Emergency Number: (+54 341) 558-7007. 8:00 AM – 5:00 PM (GMT-3).

Section 2: HAZARDS IDENTIFICATION**2.1. Classification of the substance or mixture.**

The product is classified as dangerous according to Regulation (EC) No. 1272/2008 (CLP)

CLASSIFICATION:

- Flam. Liq. 3; H226
- Skin Irrit. 2; H315
- Eye Irrit. 2; H319
- STOT SE 3; H335
- STOT SE 3; H336
- Repr. 2; H361f
- Aquatic Chronic 3; H412

Adverse physicochemical, human health and environmental effects:

No information available.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 (CLP)

2.2.1. Hazard pictograms**2.2.2 Signal word**

Warning.

2.2.3. Hazard statements

H226: Flammable liquid and vapour.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

H336: May cause drowsiness or dizziness.

H361f: Suspected of damaging fertility.

H412: Harmful to aquatic life with long lasting effects.

2.2.4. Precautionary statements

P210: Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

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

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

P308 + P313: If exposed or concerned: get medical advice/attention.

P403 + P233: Store in a well-ventilated place. Keep container tightly closed.

2.2.5. Supplemental Hazard information (EU):

Not applicable.

2.3. Other hazards

PBT: not yet assessed.

VPvB: not yet assessed.

Section 3: COMPOSITION/ INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable.

3.2. Mixture

Substances presenting a health or environmental hazard within the meaning of the Dangerous Substances Regulation (EC) No. 1272/2008 (CLP)

Ingredients	CAS Number	Content %	EC Number	Classification according to Regulation (EC) No. 1272/2008 (CLP)
Propylene glycol monomethyl ether	107-98-2	85-90%	203-539-1	Flam. Liq. 3; H226 STOT SE 3; H336
1,2-diphenylguanidine	102-06-7	10-15%	203-002-1	Acute Tox. 4; H302 Eye Irrit. 2; H319 Skin Irrit. 2; H315 STOT SE 3; H335

	Repr. 2; H361f Aquatic Chronic 2; H411
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Comments: Exact concentrations are withheld as trade secret.

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

4.1.1. General:

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.

4.1.2. In case of ingestion:

If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Induce vomiting.

4.1.3. In case of eye contact:

Flush immediately with water for 15 minutes and seek medical attention if irritation develops.

4.1.4. In case of skin contact:

Flush immediately with water. Remove the contaminated clothes.

4.1.5. In case of inhalation:

Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

4.2. Most important symptoms and effects, both acute and delayed

It might be harmful in contact with skin and eyes.

4.3. Indication of any immediate medical attention and special treatment needed

Call a doctor or physician.

Section 5: FIREFIGHTING MEASURES

5.1. Extinguishing Media

Suitable extinguishing media: Carbon dioxide (CO₂), dry chemical powder or foam.

Unsuitable extinguishing media: None known.

5.2. Special hazards arising from the substance or mixture

N/A

5.3. Advice for firefighter

Firefighters should wear self-contained breathing apparatus and full protective gear.

Section 6: ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation. Avoid contact with the material during the manipulation. Use goggles, latex gloves, splash apron or lab coat.

6.1.1. For non-emergency personnel

Wear suitable gloves. Evacuate unnecessary personnel.

6.1.2. For emergency responders

Wear suitable gloves. Ventilate area.

6.2. Environmental precautions

Do not discharge into drains or rivers.

6.3. Methods for containment and cleaning up

Collect as much of the spilled material as possible. Place in a close container approved for transportation by appropriate authorities. Clean up residue. Seal container. Dispose of collected material as soon as possible.

6.4. Reference to other sections

Section 8 and 13.

Section 7: HANDLING AND STORAGE**7.1. Precautions for safe handling**

Precautionary for safe handling: Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing.

Hygiene measures: Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Incompatible products: unknown.

Keep container tightly closed in a dry and cool place.

Store in cool, well ventilated area.

Keep away from sources of ignition.

Temperatures: 15 – 25 °C

Relative humidity: 25 – 75 %

Do not freeze.

7.3. Specific end use(s)

Manufacturing chemical indicators for Gamma Radiation sterilization processes, Serigraphy (S), Flexography (F) and other printing techniques.

Section 8: EXPOSURE CONTROL / PERSONAL PROTECTION**8.1. Control parameters****8.1.1. Occupational Exposure Limits**

No information available.

8.2. Exposure controls**8.2.1. Engineering controls**

Use adequate ventilation to keep airborne concentrations low.

8.2.2. Personal protective equipment

Protective gloves, splash-proof goggles, splash apron or lab coat. Safety eyewear designed to protect against splash of liquids.

8.2.3. Environmental exposure controls

Do not allow to enter drains or watercourses.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties**

Physical State:	Liquid
Appearance:	Variable color liquid
Color:	Variable
Odour:	N/A
Odour threshold:	N/A
pH:	N/A
Relative evaporation rate:	N/A
Melting point/Freezing point:	N/A
Boiling point:	N/A
Flash point:	N/A
Flammability:	N/A
Vapour pressure:	N/A
Relative vapour density at 20°C:	N/A
Relative density:	N/A
Log Pow:	N/A
Explosive properties:	N/A
Oxidising properties:	N/A
Solids:	13%
Viscosity (for Cup n° 6):	N/A
Decomposition Temp.:	N/A
Explosive Limits:	N/A
Auto-ignition Temp.:	N/A
Solubility:	N/A

9.2. Other information

VOC's (ASTM D 2369-87): 0 %

Section 10: STABILITY AND REACTIVITY**10.1. Reactivity**

Stable under recommended storage conditions (see section 7).

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

Hazardous Decomposition Products: N/A.

Hazardous Polymerization: N/A.

10.4. Conditions to avoid

Sources of ignition. Excessive heat.

10.5. Incompatible materials

Combustible materials.

10.6. Hazardous decomposition products

N/A

Section 11: TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects****11.1.1. Signs and symptoms of exposure**

Based on test data and/or information on the components, this material may produce the following health effects: Harmful if swallowed. Irritating to eyes. Vapors may cause drowsiness and dizziness.

Acute toxicity: Not available.

Skin corrosion/irritation: Not available.

Serious eye damage/irritation: Not available.

Respiratory or skin sensitization: Not available.

Germ cell mutagenicity: Not available.

Carcinogenicity: Not available.

Reproductive toxicity: Not available.

Specific target organ toxicity (single exposure): Not available.

Specific target organ toxicity (repeated exposure): Not available.

Aspiration hazard: Not available.

Section 12: ECOLOGICAL INFORMATION**12.1. Toxicity**

No information available.

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects.

No information available.

Section 13: DISPOSAL CONSIDERATIONS**13.1. Waste treatment methods**

Dispose in accordance with all federal, state provincial and local regulations.

Do not allow it to enter soils or aquifers.

Section 14: TRANSPORT INFORMATION**14.1. UN number**

UN1210

14.2. UN proper shipping name

Printing ink

14.3. Transport hazard class (es)

3

14.4. Packing group

III

14.5. Environmental hazards

N/A

14.6. Special precaution for users

No additional information available.

14.7. Transport in bulk according to Annex II MARPOL 73/78 and the IBC CODE

N/A

Section 15: REGULATORY INFORMATION**15.1. Safety, Health and environmental regulation/legislation specific for the substance or mixture**

Contains no REACH substances with Annex XVII restrictions.

Contains no substance on the REACH Candidate List.

Contains no REACH Annex XIV substances.

15.2. Chemical safety assessment

No chemical safety assessment is required.

Section 16: OTHER INFORMATION

According to Regulation (EU) 2015/830

Indication of changes: N/A

Abbreviations and acronyms:

CLP: Classification, Labeling and Packaging

CAS number: Chemical Abstracts Service number

Data sources:

<https://echa.europa.eu/information-on-chemicals/cl-inventory-database>

<https://echa.europa.eu/es/information-on-chemicals>

Regulation on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

16.1. Legal disclaimer

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

16.2. Date of issue/Date of revision

11-08-2021

16.3. Revision number

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