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Version: 2

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product Identifier

Product form: mixture

Trade name: Chemink® IK34F Part A; IK34F4(120-160) Part A.

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 Dry Heat sterilization processes and for printing in 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.ar

Web Page: www.terragene.com.ar



1.4. Emergency telephone

24-hour Emergency Number: Chemtrec International: +17035273887

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:

- STOT SE 3; H336

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



GHS07



2.2.2 Signal word

Warning

2.2.3. Hazard statements

H336: May cause drowsiness or dizziness

2.2.4. Precautionary statements

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

P271: Use only outdoors or in a well-ventilated area

P312: Call a POISON CENTER or doctor/physician if you feel unwell

P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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

P405: Store locked up.

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)
Monopropylene glycol methyl ether	107-98-2	1-10%	203-539-1	Flam. Liq. 3; H226 STOT SE 3; H336

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 Dry Heat sterilization processes, 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:	7.0-9.0
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:	41 to 43%
Viscosity (for Cup n° 3):	40-90 sec.(IK34F Part A); 8-15 sec.; IK34F4(120-160) Part 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 to 2 %

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

Excessive heat.

10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizers.



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

Not considered a dangerous good according to IATA, IMDG, ADN, ADR, RID Dangerous Goods Regulations.

14.2 UN proper shipping name

N/A

14.3 Transport hazard class(es)

N/A

14.4 Packing group

N/A

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 substance on the REACH Candidate List

Contains no REACH Annex XIV substances

Contains no REACH substances with Annex XVII restrictions

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, Labelling 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, labelling 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

26-09-2019

16.3. Revision number

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