

Safety Data Sheet

Australia

Section 1. Identification

Product name PhastGelTM IEF - 5-8

Catalogue Number 17-0545-01

9 0 1 7 0 5 4 5 0 1

Product type

Relevant identified uses of the substance or mixture and uses advised against

Solid.

Identified uses

Analytical chemistry. Use in laboratories

Scientific research and development

Company details

Manufacturer

Cytiva Amersham Place Little Chalfont

Buckinghamshire HP7 9NA United Kingdom +44 0800 515 313 Supplier

Cytiva Australia

Level 11, 32 Phillip Street

Parramatta Sydney 2150 New South Wales Australia

tfn: 18 0015 0522

Emergency telephone number 000 and +61 2 9846 4000

Section 2. Hazard(s) identification

Classification of the substance or mixture

GERM CELL MUTAGENICITY - Category 1
CARCINOGENICITY - Category 1

Fercentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 85% Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 85% Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 85%

GHS label elements

Hazard pictograms



Signal word DANGER

Hazard statements May cause genetic defects.

May cause cancer.

Precautionary statements

and understood. Use personal protective equipment as required.

Response F exposed or concerned: Get medical attention.

Storage Store locked up.

Disposal Disposal Dispose of contents and container in accordance with all local, regional, national and international

regulations

Article Number 17054501



Page: 1/8

Supplemental label elements

Not applicable.

Other hazards which do not result in classification

None known.

Section 3. Composition and ingredient information

Substance/mixture Mixture

Other means of identification Not available.

CAS number/other identifiers

CAS number
Not applicable.

EC number Mixture.

 Ingredient name

 ⟨w/w⟩

 CAS number

 ✓ Crylamide
 0.1 - 0.2
 79-06-1

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check

for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing,

if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

Skin contact Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash

contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes

thoroughly before reuse.

Ingestion ■ Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in

a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight

clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

 Eye contact
 No known significant effects or critical hazards.

 Inhalation
 No known significant effects or critical hazards.

 Skin contact
 No known significant effects or critical hazards.

 Ingestion
 No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contactNo specific data.InhalationNo specific data.Skin contactNo specific data.IngestionNo specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician find case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed

person may need to be kept under medical surveillance for 48 hours.

Specific treatments No specific treatment.

Protection of first-aiders No action shall be taken involving any personal risk or without suitable training. If it is suspected

that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

Article Number 17054501 Page: 2/8

Validation date 3 October 2019

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Suitable extinguishing media

Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing

media

None known.

nitrogen oxides

Specific hazards arising from

the chemical

No specific fire or explosion hazard.

Hazardous thermal decomposition products Decomposition products may include the following materials: carbon dioxide carbon monoxide

Special protective actions for fire-fighters

Fromptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions

Kvoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways,

Methods and material for containment and cleaning up

Small spill

Move containers from spill area. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large spill

Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

Fut on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage. including any incompatibilities Store between the following temperatures: 4 to 8°C (39.2 to 46.4°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and wellventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Article Number 17054501 Page: 3/8



Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

Ingredient name Acrylamide **Exposure limits**

Safe Work Australia (Australia, 4/2018). Absorbed through skin. Skin sensitiser.

TWA: 0.03 mg/m³ 8 hours.

Appropriate engineering

controls

If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure

controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling

Respiratory protection

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Appearance

Physical state Solid. [Polyacrylamide Gel]

ColourColourless.OdourOdourless.Flammability (solid, gas)Not available.

Solubility Insoluble in the following materials: cold water and hot water.

Partition coefficient: n-octanol/

water

Not available.

Decomposition temperature 700°C (1292°F)

Flow time (ISO 2431)

Not available.

Aerosol product

Flame duration Not applicable.

Section 10. Stability and reactivity

Reactivity No specific test data related to reactivity available for this product or its ingredients.

Chemical stability The product is stable.

Possibility of hazardous

reactions

☑nder normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid No specific data.

Incompatible materials No specific data.

Hazardous decomposition

products

Under normal conditions of storage and use, hazardous decomposition products should not be

produced.

Article Number 17054501 Page: 4/8



Rat

124 mg/kg

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient nameResultSpeciesDoseExposureKcrylamideLD50 DermalRabbit1150 mg/kg-

Irritation/Corrosion

Not available.

Sensitisation

Not available.

Mutagenicity
Not available.

Conclusion/Summary Can cause heritable genetic effects.

LD50 Oral

Carcinogenicity

Not available.

Conclusion/Summary Can cause cancer.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

NameCategoryRoute of exposureTarget organsKcrylamideCategory 2Not determinedNot determined

Aspiration hazard

Not available.

Information on likely routes of

exposure

Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

Eye contactNo known significant effects or critical hazards.InhalationNo known significant effects or critical hazards.Skin contactNo known significant effects or critical hazards.IngestionNo known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contactNo specific data.InhalationNo specific data.Skin contactNo specific data.IngestionNo specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate effects Not available.

Potential delayed effects Not available.

Long term exposure

Potential immediate effects Not available.

Potential delayed effects Suspected of causing cancer. Can cause heritable genetic effects.

Potential chronic health effects

Not available.

General No known significant effects or critical hazards.

Article Number 17054501 Page: 5/8

Validation date 3 October 2019

Carcinogenicity May cause cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity May cause genetic defects.

Teratogenicity

No known significant effects or critical hazards.

Pevelopmental effects

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name Oral (mg/ Dermal Inhalation Inhalation Inhalation (gases) (dusts and (vapours) kg) (mg/kg) (ppm) (mg/l) mists) (mg/l) **K**crylamide 124 1150 N/A N/A 1.5

Other information Adverse symptoms include the following: Suspected of causing cancer.

Section 12. Ecological information

Toxicity

Product/ingredient nameResultSpeciesExposureAcrylamideAcute EC50 98000 μg/l Fresh water
Acute EC50 85000 μg/l Fresh water
Chronic NOEC 2.86 mg/l Fresh waterDaphnia - Daphnia magna - Instar
Fish - Lepomis macrochirus48 hours
96 hoursFish - Pimephales promelas - Embryo33 days

Persistence and degradability

Product/ingredient nameAquatic half-lifePhotolysisBiodegradabilityAcrylamide-100%; 28 day(s)Readily

Bioaccumulative potential

Product/ingredient nameLogP₀wBCFPotential≰crylamide-0.91.44low

Mobility in soil

Soil/water partition coefficient (K Not available.

oc)

Other adverse effects No known significant effects or critical hazards.

Section 13. Disposal considerations

product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	ADG	ADR/RID	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
Proper shipping name	-	-	-	-
Class	-	-	-	-
Label				
PG	-	-	-	-
Environmental hazards	⋈ o.	No.	No.	No.
Additional information	-	-	-	-

Article Number 17054501



Page: 6/8

Special precautions for user

Transport within user's premises: always transport in closed containers that are upright and

secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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Transport in bulk according to Annex II of Marpol and the IBC Code Not available.

Section 15. Regulatory information

Standard Uniform Schedule of Medicine and Poisons

Not regulated.

Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed

Stockholm Convention on Persistent Organic Pollutants

Not listed

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed

Inventory list

Australia All components are listed or exempted.

Europe Not determined.

 United States
 All components are listed or exempted.

 Canada inventory
 All components are listed or exempted.

 China
 All components are listed or exempted.

Japan inventory (ENCS): All components are listed or exempted.

Japan inventory (ISHL): Not determined.

Malaysia
Not determined

New Zealand All components are listed or exempted.

Section 16. Any other relevant information

History

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ADG = Australian Dangerous Goods

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

ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by

the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available

SUSMP = Standard Uniform Schedule of Medicine and Poisons

UN = United Nations

Procedure used to derive the classification

Classification Justification

GERM CELL MUTAGENICITY - Category 1 Calculation method CARCINOGENICITY - Category 1 Calculation method

Indicates information that has changed from previously issued version.

Notice to reader

Article Number 17054501 Page: 7/8

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Article Number 17054501 Page: 8/8

