

# **Safety Data Sheet**

Australia

Section 1. Identification

**Product name** Poloxamer 188

**Catalogue Number** SH30612

**HyClone Laboratories** 

925 West 1800 South

Logan, Utah 84321 Phone: (435) 792-8000

Product type

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

Not applicable.

## Company details

#### Manufacturer

Cytiva Austria Kremplstr. 5 4061 Pasching **AUSTRIA** Tel. (+43) 7229 64865 Fax (+43) 7229 64866

Cytiva Singapore 1 Maritime Square #13-01 Harbourfront Centre Singapore 099253

# Supplier

Cytiva Australia Level 11, 32 Phillip Street Parramatta Sydney 2150 New South Wales Australia tfn: 18 0015 0522

**Emergency telephone number** 

## Section 2. Hazard(s) identification

Classification of the substance

Not classified.

or mixture

## **GHS label elements**

Signal word No signal word.

No known significant effects or critical hazards. **Hazard statements** 

**Precautionary statements** 

Prevention Not applicable. Response Not applicable. Storage Not applicable. Not applicable. Disposal Supplemental label elements Not applicable.

Other hazards which do not result in classification

May form explosible dust-air mixture if dispersed.

## Section 3. Composition and ingredient information

Substance/mixture Substance

Other means of identification Not available.

## **CAS** number/other identifiers

CAS number Not available.

EC number Not available.

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. Get medical attention if irritation occurs.

**Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical

attention if symptoms occur.

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

medical attention if symptoms occur.

**Ingestion** Wash out mouth with water. 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. Do not induce vomiting unless directed to do so by medical personnel.

Get medical attention if symptoms occur.

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

Exposure to airborne concentrations above statutory or recommended exposure limits may cause

irritation of the eyes.

**Inhalation** Exposure to airborne concentrations above statutory or recommended exposure limits may cause

irritation of the nose, throat and lungs.

Skin contact No known significant effects or critical hazards.

Ingestion No known significant effects or critical hazards.

### Over-exposure signs/symptoms

**Eye contact** Adverse symptoms may include the following:

irritation redness

**Inhalation** Adverse symptoms may include the following:

respiratory tract irritation

coughing

Skin contact No specific data.

Ingestion No specific data.

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

been ingested or inhaled.

**Specific treatments** No specific treatment.

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

## See toxicological information (Section 11)

Article Number €H30612 Page: 2/8

# Section 5. Fire-fighting measures

## **Extinguishing media**

Suitable extinguishing media

Use dry chemical powder.

Unsuitable extinguishing

media

Avoid high pressure media which could cause the formation of a potentially explosible dust-air

Specific hazards arising from the chemical

May form explosible dust-air mixture if dispersed.

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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

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 spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Put on appropriate personal protective equipment.

For emergency responders

₭ specialized 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** 

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

## Methods and materials for containment and cleaning up

Small spill

Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large spill

Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. 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 breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material.

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: 15 to 30°C (59 to 86°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Article Number 5H30612 Page: 3/8

# Section 8. Exposure controls and personal protection

#### **Control parameters**

#### Occupational exposure limits

None

Appropriate engineering

controls

Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor 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. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

**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. If operating conditions cause high dust

concentrations to be produced, use dust goggles.

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.

**Body protection** 

Fersonal 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

this product.

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. [Powder.]
Flammability (solid, gas) Not available.
Partition coefficient: n-octanol/ water

Decomposition temperature Flow time (ISO 2431)

**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

Conditions to avoid

Incompatible materials

reactions

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

Kvoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame).

Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before

transferring material. Prevent dust accumulation.

Reactive or incompatible with the following materials:

oxidizing materials

Hazardous decomposition products

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

produced.

Article Number €H30612 Page: 4/8

# Section 11. Toxicological information

## Information on toxicological effects

#### **Acute toxicity**

Product/ingredient nameResultSpeciesDoseExposureØxirane, 2-methyl-, polymer withLD50 DermalRabbit20000 mg/kg-

oxirane

LD50 Oral Rat 5700 mg/kg -

#### Irritation/Corrosion

Not available.

#### Sensitization

Not available.

#### **Mutagenicity**

Not available.

## Carcinogenicity

Not available.

#### Reproductive toxicity

Not available.

#### **Teratogenicity**

Not available.

## Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Not available.

Information on the likely routes Routes of

of exposure

Routes of entry anticipated: Oral, Dermal, Inhalation.

# Potential acute health effects

Exposure to airborne concentrations above statutory or recommended exposure limits may cause

irritation of the eyes.

Inhalation Exposure to airborne concentrations above statutory or recommended exposure limits may cause

irritation of the nose, throat and lungs.

Skin contact

No known significant effects or critical hazards.

No known significant effects or critical hazards.

## Symptoms related to the physical, chemical and toxicological characteristics

Eye contact Adverse symptoms may include the following:

irritation redness

**Inhalation** Adverse symptoms may include the following:

respiratory tract irritation

coughing

Skin contact No specific data.

Ingestion No specific data.

## Delayed and immediate effects and also 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 Not available.

## Potential chronic health effects

Not available.

Article Number 🖔 H30612 Page: 5/8

Version 1

**General** Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

CarcinogenicityNo known significant effects or critical hazards.MutagenicityNo known significant effects or critical hazards.TeratogenicityNo known significant effects or critical hazards.Developmental effectsNo known significant effects or critical hazards.Fertility effectsNo known significant effects or critical hazards.

## **Numerical measures of toxicity**

## **Acute toxicity estimates**

Product/ingredient name	Oral (mg/	Dermal	Inhalation	Inhalation	Inhalation
	kg)	(mg/kg)	(gases)	(vapors)	(dusts and
_			(ppm)	(mg/l)	mists) (mg/l)
Sxirane, 2-methyl-, polymer with oxirane	5700	20000	N/A	N/A	N/A

# Section 12. Ecological information

## **Toxicity**

Product/ingredient nameResultSpeciesExposureÖxirane, 2-methyl-, polymer withLC50 10000 mg/lFish96 hours

## Persistence and degradability

Not available.

#### **Bioaccumulative potential**

Not available.

#### **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

Disposal methods

The generation of waste should be avoided or minimized wherever possible. Disposal of this 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. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# Section 14. Transport information

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

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.

Article Number €H30612 Page: 6/8

Transport in bulk according to Annex II of MARPOL and the

Not available

**IBC Code** 

# 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**

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. Vapan inventory (ENCS): Not determined. Japan

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

Not classified.



Indicates information that has changed from previously issued version.

#### Notice to reader

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 5H30612 Page: 7/8

Version 1

Article Number 5H30612