

# **Safety Data Sheet**

Australia

Section 1. Identification

**Product name** ADCF MAb™, 10L

**Catalogue Number** SH30635.02

**HyClone Laboratories** 

925 West 1800 South

Phone: (435) 792-8000

Logan, Utah 84321

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** 000

### Section 2. Hazard(s) identification

Classification of the substance

or mixture

Not classified.

Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 41% Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 69.8% Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 74.8%

**GHS label elements** 

Signal word No signal word.

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

**Precautionary statements** 

Prevention Not applicable. Response Not applicable. Storage Not applicable.

> Article Number 29181962 Page: 1/7

ADCF MAb™, 10L SH30635.02

Disposal Not applicable.

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 Mixture

Other means of identification Not available.

### **CAS** number/other identifiers

CAS number Not applicable.
EC number Mixture.

There are no 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. 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. 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 contactNo specific data.IngestionNo specific data.

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

Notes to physician 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.

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 29181962 Page: 2/7

ADCF MAb™, 10L SH30635.02

### 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 nitrogen oxides sulfur oxides phosphorus oxides halogenated compounds metal oxide/oxides

Special protective actions for fire-fighters

Promptly 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

If 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** 

Put 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

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: 2 to 8°C (35.6 to 46.4°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 29181962 Page: 3/7 ADCF MAb™, 10L SH30635.02

## 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 explosionproof 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** 

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

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/ Not available. water

**Decomposition temperature** 

Not available. Not available.

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

reactions

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

Conditions to avoid Avoid 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

Incompatible materials

products

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

produced.

Article Number 29181962 Page: 4/7

SH30635.02 ADCF MAb™, 10L

## Section 11. Toxicological information

### Information on toxicological effects

#### **Acute toxicity**

Not available.

#### 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 entry anticipated: Oral, Dermal, Inhalation.

### of exposure Potential acute health effects

Eye contact 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.

### 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. Not available. Potential delayed effects

### Potential chronic health effects

Not available.

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

Carcinogenicity No known significant effects or critical hazards.

> Article Number 29181962 Page: 5/7

ADCF MAb™, 10L SH30635.02

Mutagenicity No known significant effects or critical hazards. Teratogenicity No known significant effects or critical hazards. **Developmental effects** No known significant effects or critical hazards. Fertility effects No known significant effects or critical hazards.

#### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

N/A

### Section 12. Ecological information

#### **Toxicity**

Not available.

### Persistence and degradability

Not available.

### **Bioaccumulative potential**

Not available.

#### **Mobility in soil**

Soil/water partition coefficient (K Not available.

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 availa	ble.	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	No.		No.	No.	No.
Additional information	-		-	-	-
Special precautions for user		<b>Transport within user's premises:</b> 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.			
Transport in bulk according to Annex II of MARPOL and the IBC Code		Not available.			

Article Number 29181962 Page: 6/7

Version 2

ADCF MAb™, 10L SH30635.02

## Section 15. Regulatory information

### **Standard Uniform Schedule of Medicine and Poisons**

Not regulated.

#### Model Work Health and Safety Regulations - Scheduled Substances

Ingredient name

Nitric acid, calcium salt, tetrahydrate

**Schedule** 

Restricted hazardous chemical [For wet abrasive blasting]

### **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**

AustraliaNot determined.EuropeNot determined.United StatesNot determined.Canada inventoryNot determined.

China At least one component is not listed.

Japan inventory (ENCS): Not determined.

Japan inventory (ISHL): Not determined.

Malaysia Not determined

New Zealand Not determined.

### Section 16. Any other relevant information

### **History**

Date of printing23 April 2020Date of previous issue02 August 2019

Date of issue 02 August 2019 Version 2

sds\_author@cytiva.com

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 29181962 Page: 7/7

Validation date 2 August 2019