

Page 1/9

Safety Data Sheet

acc. to OSHA HCS

Printing date 11/14/2020

Revision date 11/14/2020

1 Identification

· Product identifier

- · Trade name: CD44 Extracellular Domain Rabbit Monoclonal Antibody
- · Synonym

CDw44; Extracellular Matrix Receptor III; Heparin Sulfate Proteoglycan; HUTCH-1; Hyaluronate Receptor; PGP-1

- · Article number: 32214
- Application of the substance / the mixture For research use only, not for human or veterinary use.
- Details of the supplier of the safety data sheet
 Manufacturer/Supplier: Cayman Chemical Co.
 1180 E. Ellsworth Rd.
 Ann Arbor, MI 48108
 USA
- · Information department: Product safety department

• Emergency telephone number: During normal opening times: +1 (734) 971-3335 US/CANADA: 800-424-9300 Outside US/CANADA: 703-741-5970

2 Hazard(s) identification

• Classification of the substance or mixture The product is not classified, according to the Globally Harmonized System (GHS).

· Label elements

- · GHS label elements None
- · Hazard pictograms None
- · Signal word None
- · Hazard statements None
- Classification system:
- NFPA ratings (scale 0 4)



· HMIS-ratings (scale 0 - 4)

HEALTHIFIRE1REACTIVITYReactivity = 0

- · Other hazards
- Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- **vPvB:** Not applicable.

(Contd. on page 2)

Printing date 11/14/2020

Revision date 11/14/2020

Trade name: CD44 Extracellular Domain Rabbit Monoclonal Antibody

(Contd. from page 1)

3 Composition/info	ormation on ingredients		
• Chemical characteria • Description: Mixture	zation: Mixtures of the substances listed below with nonhazardous additions.		
 Dangerous compone 	ents:		
CAS: 56-81-5 RTECS: MA8050000	Glycerol	50.0%	
CAS: 9048-46-8 RTECS: MT6446000	Albumin, bovine	1.0%	
· Other ingredients			
CAS: 7732-18-5 RTECS: ZC0110000	Water	47.914%	
CAS: 7647-14-5 RTECS: VZ4725000	Sodium chloride	0.85%	
CAS: 7558-79-4 RTECS: WC4500000	Sodium phosphate, Dibasic	0.106%	
CAS: 26628-22-8 RTECS: VY8050000	Sodium azide	0.09%	
CAS: 7778-77-0 RTECS: TC6615500	Potassium phosphate, Monobasic	0.03%	
	CD44 Extracellular Domain Rabbit Monoclonal Antibody	0.01%	

4 First-aid measures

Description of first aid measures

- General information: No special measures required.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.
- Information for doctor:

• **Most important symptoms and effects, both acute and delayed** May cause anemia, cough, CNS depression, drowsiness, headache, heart damage, lassitude (weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects. No further relevant information available.

• **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents:

Use fire fighting measures that suit the environment.

- A solid water stream may be inefficient.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters

· Protective equipment: No special measures required.

(Contd. on page 3)

Printing date 11/14/2020

Revision date 11/14/2020

Trade name: CD44 Extracellular Domain Rabbit Monoclonal Antibody

(Contd. from page 2)

6 Accidental release measures		
 Personal precautions, protective equipment and emergency procedures Not requi Environmental precautions: Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water. Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, saw Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information. Protective Action Criteria for Chemicals 		
· PAC-1:		
56-81-5 Glycerol	45 mg/m³	
26628-22-8 Sodium azide	0.026 mg/m ³	
7778-77-0 Potassium phosphate, Monobasic	9.6 mg/m³	
PAC-2:		
56-81-5 Glycerol	180 mg/m ³	
26628-22-8 Sodium azide 0.29 mg/n		
7778-77-0 Potassium phosphate, Monobasic 110 mg/m ³		
PAC-3:		
56-81-5 Glycerol	1,100 mg/m ³	
26628-22-8 Sodium azide 5.3 mg/m ³		
7778-77-0 Potassium phosphate, Monobasic 630 mg/m ³		

7 Handling and storage

· Handling:

- · Precautions for safe handling No special measures required.
- · Information about protection against explosions and fires: No special measures required.
- Conditions for safe storage, including any incompatibilities Keep container tightly closed.

Store in accordance with information listed on the product insert.

- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see item 7.

(Contd. on page 4)

LIS

Printing date 11/14/2020

Revision date 11/14/2020

Trade name: CD44 Extracellular Domain Rabbit Monoclonal Antibody

(Contd. from page 3)

-	require monitoring at the workplace:	
56-81-5 Glycerol		
PEL Long-term value: 15* 5** mg/m ³ mist; *total dust **respirable frac		
TLV TLV withdrawn-insufficient data		
	at were valid during the creation were used as basis.	
Exposure controls		
Personal protective equipment:		
General protective and hygienic m	easures:	
	or handling chemicals should be followed.	
Breathing equipment: Not required. Protection of hands:		
The glove material has to be impermedule to missing tests no recommendation	eable and resistant to the product/ the substance/ the preparation ndation to the glove material can be given for the product/	
preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and t degradation		
Material of gloves	does not only depend on the material, but also on further marks	
quality and varies from manufactur substances, the resistance of the glo be checked prior to the application.	rer to manufacturer. As the product is a preparation of seve ove material can not be calculated in advance and has therefore	
Penetration time of glove material		
The exact break through time has to be found out by the manufacturer of the protective gloves and h		
	be found out by the manufacturer of the protective gloves and	
The exact break through time has to to be observed. Eye protection: Goggles recommen		
to be observed.		
to be observed. Eye protection: Goggles recommen	ded during refilling.	
to be observed. Eye protection: Goggles recommen Physical and chemical prope	ded during refilling.	
to be observed. Eye protection: Goggles recommen Physical and chemical prope Information on basic physical and	ded during refilling.	
to be observed. Eye protection: Goggles recommen Physical and chemical prope Information on basic physical and General Information	ded during refilling.	
to be observed. Eye protection: Goggles recommen Physical and chemical prope Information on basic physical and	ded during refilling.	
to be observed. Eye protection: Goggles recommen Physical and chemical prope Information on basic physical and General Information Appearance:	ded during refilling.	
to be observed. Eye protection: Goggles recommen Physical and chemical prope Information on basic physical and General Information Appearance: Form: Color: Odor:	ded during refilling.	
to be observed. Eye protection: Goggles recommen Physical and chemical prope Information on basic physical and General Information Appearance: Form: Color: Odor: Storage Buffer	ded during refilling. erties chemical properties Liquid According to product specification Characteristic 50% glycerol/PBS, with 1% BSA and 0.09% sodium azide	
to be observed. Eye protection: Goggles recommen Physical and chemical prope Information on basic physical and General Information Appearance: Form: Color: Odor: Storage Buffer Odor threshold:	ded during refilling. erties chemical properties Liquid According to product specification Characteristic 50% glycerol/PBS, with 1% BSA and 0.09% sodium azide Not determined.	
to be observed. Eye protection: Goggles recommen Physical and chemical prope Information on basic physical and General Information Appearance: Form: Color: Odor: Storage Buffer Odor threshold: Formulation	ded during refilling. Prties chemical properties Liquid According to product specification Characteristic 50% glycerol/PBS, with 1% BSA and 0.09% sodium azide Not determined. 100 µl protein A-purified monoclonal antibody	
to be observed. Eye protection: Goggles recommen Physical and chemical prope Information on basic physical and General Information Appearance: Form: Color: Odor: Storage Buffer Odor threshold: Formulation pH-value:	ded during refilling. erties chemical properties Liquid According to product specification Characteristic 50% glycerol/PBS, with 1% BSA and 0.09% sodium azide Not determined.	
to be observed. Eye protection: Goggles recommen Physical and chemical prope Information on basic physical and General Information Appearance: Form: Color: Odor: Storage Buffer Odor threshold: Formulation pH-value: Change in condition	ded during refilling. Prties chemical properties Liquid According to product specification Characteristic 50% glycerol/PBS, with 1% BSA and 0.09% sodium azide Not determined. 100 µl protein A-purified monoclonal antibody Not determined.	
to be observed. Eye protection: Goggles recommen Physical and chemical prope Information on basic physical and General Information Appearance: Form: Color: Odor: Storage Buffer Odor threshold: Formulation pH-value:	ded during refilling. Prties chemical properties Liquid According to product specification Characteristic 50% glycerol/PBS, with 1% BSA and 0.09% sodium azide Not determined. 100 µl protein A-purified monoclonal antibody	
to be observed. Eye protection: Goggles recommen Physical and chemical prope Information on basic physical and General Information Appearance: Form: Color: Odor: Storage Buffer Odor threshold: Formulation pH-value: Change in condition Melting point/Melting range:	ded during refilling. Prties chemical properties Liquid According to product specification Characteristic 50% glycerol/PBS, with 1% BSA and 0.09% sodium azide Not determined. 100 µl protein A-purified monoclonal antibody Not determined. Undetermined.	
to be observed. Eye protection: Goggles recommen Physical and chemical proper Information on basic physical and General Information Appearance: Form: Color: Odor: Storage Buffer Odor threshold: Formulation pH-value: Change in condition Melting point/Melting range: Boiling point/Boiling range:	ded during refilling. erties chemical properties Liquid According to product specification Characteristic 50% glycerol/PBS, with 1% BSA and 0.09% sodium azide Not determined. 100 µl protein A-purified monoclonal antibody Not determined. Undetermined. 100 °C (212 °F)	
to be observed. Eye protection: Goggles recommen Physical and chemical prope Information on basic physical and General Information Appearance: Form: Color: Odor: Storage Buffer Odor threshold: Formulation pH-value: Change in condition Melting point/Melting range: Boiling point/Boiling range: Flash point:	ded during refilling. Prties chemical properties Liquid According to product specification Characteristic 50% glycerol/PBS, with 1% BSA and 0.09% sodium azide Not determined. 100 µl protein A-purified monoclonal antibody Not determined. Undetermined. 100 °C (212 °F) 199 °C (390.2 °F)	

Printing date 11/14/2020

Revision date 11/14/2020

Trade name: CD44 Extracellular Domain Rabbit Monoclonal Antibody

	(Contd. from pa	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
Density at 20 °C (68 °F):	0.99795–1.00205 g/cm³ (8.32789–8.36211 lbs/gal)	
Bulk density:	998–1,002 kg/m³	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/wate	r): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	50.0 %	
Water:	47.9 %	
VOC content:	0.00 %	
	0.0 g/l / 0.00 lb/gal	
Solids content:	1.1 %	
Other information	No further relevant information available.	

10 Stability and reactivity

· Reactivity No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

Oral

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

LD50

50,000 mg/kg

(Contd. on page 6)

US

Printing date 11/14/2020

Revision date 11/14/2020

Trade name: CD44 Extracellular Domain Rabbit Monoclonal Antibody

(Contd. from page s			
56-81-5 Glycero	I		
Oral	LD50	12,600 mg/kg (rat)	
Irritation of skin	tion of skin Irritation 500 mg/24h (rabbit)		
Irritation of eyes	Irritation	500 mg/24h (rabbit)	
	Intraperitoneal LD50	4,420 mg/kg (rat)	
	Subcutaneous LD50	100 mg/kg (rat)	
9048-46-8 Albur	nin, bovine		
	Intraperitoneal TDLO	0.2 pph (mouse)	
26628-22-8 Sodi	ium azide		
Oral	LDLO	27 mg/kg (rat)	
	TDLO	3 ml/kg (wmn)	
	LD50	27 mg/kg (rat)	
	Subcutaneous LD50	45,100 μg/kg (rat)	
Dermal	LD50	50 mg/kg (rat)	
		20 mg/kg (rabbit)	
Inhalative	LC50	37 mg/m³ (rat)	
	Subcutaneous LD50	45,100 μg/kg (rat)	
	Interperitoneal LDLO	30 mg/kg (rat)	
	Intraperitoneal LD50	28 mg/kg (mouse)	
	Subcutaneous LD50	45 mg/kg (rat)	
	Data	5,500 mg/kg (mouse)	
· Primary irritant	offact	·	

• Primary irritant effect:

• on the skin: No irritant effect.

• on the eye: No irritating effect.

· Sensitization: No sensitizing effects known.

• Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· Carcinogenic categories

· IARC (International Agency for Resear	ch on Cancer)
---	---------------

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

· Toxicity

- · Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.

(Contd. on page 7)

US

Printing date 11/14/2020

Revision date 11/14/2020

Trade name: CD44 Extracellular Domain Rabbit Monoclonal Antibody

(Contd. from page 6)

- · Additional ecological information:
- · General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Results of PBT and vPvB assessment

· **PBT:** Not applicable.

• **vPvB:** Not applicable.

· Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- Recommendation: Smaller quantities can be disposed of with household waste.
- · Uncleaned packagings:
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14	ranspo	nt int	ormat	non
	ranope		VIIIIa	

· UN-Number		
· DOT, IMDG, IATA	not regulated	
UN proper shipping name		
· DOT, IMDG, IATA	not regulated	
· Transport hazard class(es)		
•		
· DOT, ADN, IMDG, IATA		
· Class	not regulated	
· Packing group		
	not regulated	
	•	
 Environmental hazards: 	Not applicable.	
 Special precautions for user 	Not applicable.	
· Transport in bulk according to Annex II of		
MARPOL73/78 and the IBC Code	Not applicable.	
· UN "Model Regulation":	not regulated	

15 Regulatory information

 $^{\cdot}$ Safety, health and environmental regulations/legislation specific for the substance or mixture $^{\cdot}$ Sara

· Section 355 (extremely hazardous substances):

26628-22-8 Sodium azide

• Section 313 (Specific toxic chemical listings):

26628-22-8 Sodium azide

(Contd. on page 8)

US ·

Printing date 11/14/2020

Revision date 11/14/2020

Trade name: CD44 Extracellular Domain Rabbit Monoclonal Antibody

		(Contd. from page
	ic Substances Control Act):	(Conta: nom page
•	Glycerol	ACTIVE
7732-18-5		ACTIVE
	Albumin, bovine	ACTIVE
	Sodium chloride	ACTIVE
	Sodium phosphate, Dibasic	ACTIVE
	Sodium azide	ACTIVE
7778-77-0	Potassium phosphate, Monobasic	ACTIVE
· Hazardous	Air Pollutants	ł.
None of the	ingredients is listed.	
· Proposition	1 65	
· Chemicals	known to cause cancer:	
None of the	ingredients is listed.	
· Chemicals	known to cause reproductive toxicity for females:	
None of the	ingredients is listed.	
· Chemicals	known to cause reproductive toxicity for males:	
None of the	ingredients is listed.	
· Chemicals	known to cause developmental toxicity:	
None of the	ingredients is listed.	
· Carcinoger	nic categories	
· EPA (Envir	onmental Protection Agency)	
None of the	ingredients is listed.	
· TLV (Thres	hold Limit Value established by ACGIH)	

26628-22-8 Sodium azide

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Environment protection department.
- · Contact: -
- Date of preparation / last revision 11/14/2020 / -
- Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic

(Contd. on page 9)

A4

Printing date 11/14/2020

Revision date 11/14/2020

Trade name: CD44 Extracellular Domain Rabbit Monoclonal Antibody

(Contd. from page 8)

vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit

* Data compared to the previous version altered.