

Printing date 06/13/2022

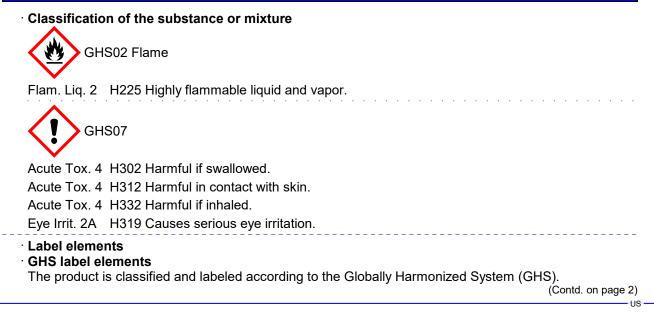
Revision date 06/13/2022

Page 1/11

1 Identification

- · Product identifier
- · Trade name: CBDPA (CRM)
- · Article number: 36237
- **Application of the substance / the mixture** This product is for research use - Not for human or veterinary diagnostic or therapeutic 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



Printing date 06/13/2022

Revision date 06/13/2022

Trade name: CBDPA (CRM)

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Hazard pictogr	anis
<u>< 🕸 > < !</u>	
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GHS02 GHS)7
Signal word Da	anger
Hazard-determ	ining components of labeling:
Acetonitrile	
CBDPA	
Hazard statem	
H225	Highly flammable liquid and vapor.
	332 Harmful if swallowed, in contact with skin or if inhaled.
H319	Causes serious eye irritation.
Precautionary	
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271 P280	Use only outdoors or in a well-ventilated area.
P301+P312	Wear protective gloves/protective clothing/eye protection/face protection.
	If swallowed: Call a poison center/doctor if you feel unwell. 53 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin w
F3037F3017F3	water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	38 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses
P321	present and easy to do. Continue rinsing.
P330	Specific treatment (see on this label). Rinse mouth.
P362+P364	Take off contaminated clothing and wash it before reuse.
P337+P313	If eye irritation persists: Get medical advice/attention.
P370+P378	In case of fire: Use CO2, powder or water spray to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container in accordance with local/regional/national/internation
	regulations.
Classification	
NFPA ratings (
	ealth = 2
	re = 3
Z U Re	eactivity = 0
▼ ∨	

HEALTH2Health = 2FIRE3Fire = 3REACTIVITY0

(Contd. on page 3)

US

Printing date 06/13/2022

Revision date 06/13/2022

(Contd. from page 2)

99.9%

0.1%

Trade name: CBDPA (CRM)

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

3 Composition/information on ingredients

· Chemical characterization: Mixtures

- · Description: Mixture of the substances listed below with nonhazardous additions.
- · Dangerous components:

CAS: 75-05-8	Acetonitrile
RTECS: AL7700000	

CAS: 2718149-62-1 CBDPA

4 First-aid measures

· Description of first aid measures

General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

- After skin contact: Immediately rinse with water.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- After swallowing: Immediately call a 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:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. • Special hazards arising from the substance or mixture No further relevant information available.

- Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

(Contd. on page 4)

Revision date 06/13/2022

(Contd from page 3)

Trade name: CBDPA (CRM)

Printing date 06/13/2022

	(Conto, nom page 5
Accidental release measures	
 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. 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 bind Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. Reference to other sections See Section 7 for information on safe handling. See Section 13 for disposal information. Protective Action Criteria for Chemicals 	lers, sawdust).
PAC-1:	
75-05-8 Acetonitrile	13 ppm
PAC-2:	
75-05-8 Acetonitrile	50 ppm
PAC-3:	
75-05-8 Acetonitrile	150 ppm

7 Handling and storage

· Handling:

Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.
- · Conditions for safe storage, including any incompatibilities
- · Storage: Store in accordance with information listed on the product insert.
- Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles.
- **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.

- · Control parameters
- Components with limit values that require monitoring at the workplace:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

(Contd. on page 5)

⁻ US

Printing date 06/13/2022

Revision date 06/13/2022

(Contd. from page 4)

Trade name: CBDPA (CRM)

75-05-8 Acetonitrile

- PEL Long-term value: 70 mg/m³, 40 ppm
- REL Long-term value: 34 mg/m³, 20 ppm
- TLV Long-term value: 20 ppm

Skin, A4

• Additional information: The lists that were valid during the creation were used as basis.

- · Exposure controls
- Personal protective equipment:

• General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes. Avoid contact with the eyes and skin.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection:



Tightly sealed goggles

Information on basic physica	al and chemical properties	
General Information		
Appearance:		
Form:	Liquid	
Color:	Colorless	
Odor:	Aromatic	
Structural Formula	C24H34O4	

Printing date 06/13/2022

Revision date 06/13/2022

Trade name: CBDPA (CRM)

	(Contd. from page 5
Molecular Weight Odor threshold: Formulation	386.5 g/mol Not determined. A 1 mg/ml solution in acetonitrile
pH-value:	Not determined.
Change in condition Melting point/Melting range: Boiling point/Boiling range:	-46 °C (-50.8 °F) 81 °C (177.8 °F)
Flash point:	5 °C (41 °F)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	525 °C (977 °F)
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air vapor mixtures are possible.
Explosion limits: Lower: Upper:	4.4 Vol % 16 Vol %
Vapor pressure at 20 °C (68 °F):	97 hPa (72.8 mm Hg)
Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate	0.7822 g/cm³ (6.52746 lbs/gal) Not determined. Not determined. Not determined.
Solubility in / Miscibility with Water:	Fully miscible.
Partition coefficient (n-octanol/wat	er): Not determined.
[·] Viscosity: Dynamic at 20 °C (68 °F): Kinematic:	0.39 mPas Not determined.
Solvent content: VOC content:	0.00 % 0.0 g/l / 0.00 lb/gal
Solids content:	0.1 %
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.

(Contd. on page 7)

[•] US

Printing date 06/13/2022

Revision date 06/13/2022

Trade name: CBDPA (CRM)

Toxicological information Information on toxicological effects Acute toxicity: LD/LC50 values that are relevant for classification: ATE (Acute Toxicity Estimate) Oral LD50 Bermal LD50 Inhalative LC50/4 h 9.02 mg/l 75-05-8 Acetonitrile Oral LD50 Oral LD50 820 mg/kg (rabbit) Inhalative LC50/4 h 9.02 mg/l 75-05-8 Acetonitrile Oral TDLO 0ral LD50 820 mg/kg (rabbit) Inhalative LC50/4 h 7.551 mg/m³ (rat) LC50 7.551 mg/m³/8h (rat) TCLO 160 mg/m³/4h (hmn) Irritation 100 µl/24 hr (rabbit) Irritation 100 µl/24 hr (rabbit) Irritation 100 µl/24 hr (rabbit) Primary irritant effect: on the eye: Irritating effect. Sensitization:: No sensitizing effects known. Additional toxicological information: The product shows the following dangers according to internally approved calculation methods preparations: Harmful Irritant Carcinogenic categories <th>Hazardous deco</th> <th colspan="3">(Contd. from pag Hazardous decomposition products: No dangerous decomposition products known.</th>	Hazardous deco	(Contd. from pag Hazardous decomposition products: No dangerous decomposition products known.		
Acute toxicity: LD/LC50 values that are relevant for classification: ATE (Acute Toxicity Estimate) Oral LD50 416 mg/kg (rat) Dermal LD50 820 mg/kg (rabbit) Inhalative LC50/4 h 9.02 mg/l 75-05-8 Acetonitrile	Toxicologica	l inform	ation	
ATE (Acute Toxicity Estimate) Oral LD50 416 mg/kg (rat) Dermal LD50 820 mg/kg (rabbit) Inhalative LC50/4 h 9.02 mg/l 75-05-8 Acetonitrile Oral TDLO 64 ml/kg (man) LD50 2,460 mg/kg (rat) 980 mg/kg (rabbit) Dermal LD50 980 mg/kg (rabbit) Inhalative LC50/4 h 7,551 mg/m³ (rat) LC50 7,551 mg/m³/4h (rat) 7,551 mg/m³/4h (rat) TCLO 160 mg/m³/4h (hmn) 100 µl/24 hr (rabbit) Irritation 100 µl/24 hr (rabbit) 100 µl/24 hr (rabbit) Primary irritant effect: on the skin: No irritant effect. Sensitizzing effects known. Additional toxicological information: The product shows the following dangers according to internally approved calculation methods preparations: Harmful Irritant Carcinogenic categories IARC (International Agency for Research on Cancer) None of the ingredients is listed.	Information on Acute toxicity:	toxicologi	cal effects	
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LC50 7,551 mg/m³/8h (rat) TCLO 160 mg/m³/4h (hmn) Irritation 100 µl/24 hr (rabbit) Primary irritant effect: 100 il/24 hr (rabbit) on the skin: No irritant effect. 100 il/24 hr (rabbit) on the skin: No irritant effect. on the eye: Irritating effect. Sensitization: No sensitizing effects known. Additional toxicological information: The product shows the following dangers according to internally approved calculation methods preparations: Harmful Irritant Carcinogenic categories: IARC (International Agency for Research on Cancer) None of the ingredients is listed. NTP (National Toxicology Program) None of the ingredients is listed.	Dermal	LD50	980 mg/kg (rabbit)	
Irritation of eyes TCLO 160 mg/m³/4h (hmn) Irritation 100 µl/24 hr (rabbit) Irritation 100 µl/24 hr (rabbit) Primary irritant effect: 00 µl/24 hr (rabbit) on the skin: No irritant effect: on the eye: Irritating effect. Sensitization: No sensitizing effects known. Additional toxicological information: The product shows the following dangers according to internally approved calculation methods preparations: Harmful Irritant Carcinogenic categories IARC (International Agency for Research on Cancer) None of the ingredients is listed. NTP (National Toxicology Program) None of the ingredients is listed.	Inhalative	LC50/4 h	7,551 mg/m³ (rat)	
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None of the ingredients is listed.	None of the ingre	edients is l	sted.	
	•		- ,	
OSHA-Ca (Occupational Safety & Health Administration)	None of the ingre	edients is l	sted.	
		inational	Safety & Health Administration)	

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 8)

Printing date 06/13/2022

Revision date 06/13/2022

Trade name: CBDPA (CRM)

(Contd. from page 7)

- · Additional ecological information:
- · General notes:

Water hazard class 2 (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

- · 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:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- **Recommendation:** Disposal must be made according to official regulations.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

· DOT, IMDG, IATA	UN1992
 UN proper shipping name 	
DOT	Flammable liquids, toxic, n.o.s. (Acetonitrile)
·IMDG	FLAMMABLE LIQUID, TOXIC, N.O.S (ACETONITRILE)
	Flammable liquid, toxic, n.o.s. (ACETONITRILE)
· Transport hazard class(es)	
· Class	3 Flammable liquids
	3, 6.1
· Label	
· Label · IMDG	

Printing date 06/13/2022

Revision date 06/13/2022

Trade name: CBDPA (CRM)

	(Contd. from page
[.] Label	3/6.1
· Class · Label	3 Flammable liquids 3 (6.1)
 Packing group DOT, IMDG, IATA 	II
· Environmental hazards:	Not applicable.
 Special precautions for user Hazard identification number (Kemler code): EMS Number: Stowage Category Stowage Code 	Warning: Flammable liquids 336 F-E,S-D B SW2 Clear of living quarters.
 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code 	Not applicable.
· Transport/Additional information:	
· DOT · Quantity limitations	On passenger aircraft/rail: 1 L On cargo aircraft only: 60 L
 IMDG Limited quantities (LQ) Excepted quantities (EQ) 	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· IATA · Remarks:	When sold in quantities of less than or equal to 1 ml or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimi Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled a Dangerous Goods/Excepted Quantity.
· UN "Model Regulation":	UN 1992 FLAMMABLE LIQUID, TOXIC, N.O.S (ACETONITRILE), 3 (6.1), II

15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

(Contd. on page 10)

US

Printing date 06/13/2022

Revision date 06/13/2022

Trade name: CBDPA (CRM)

	(Contd. from page
Section 313 (Specific toxic chemical listings):	
75-05-8 Acetonitrile	
· TSCA (Toxic Substances Control Act):	
75-05-8 Acetonitrile	ACTIV
· Hazardous Air Pollutants	
75-05-8 Acetonitrile	
Proposition 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.	
· Carcinogenic categories	
· EPA (Environmental Protection Agency)	
75-05-8 Acetonitrile	CBD, I
· TLV (Threshold Limit Value)	
75-05-8 Acetonitrile	A
· NIOSH-Ca (National Institute for Occupational Safety and Heal	th)
None of the ingredients is listed.	

16 Other information

All chemicals may pose unknown hazards and should be used with caution. This SDS applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of these data. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Cayman Chemical Company assumes no responsibility for the completeness or accuracy of the information contained herein.

- · Department issuing SDS: Environment protection department.
- · Contact: -
- · Date of preparation / last revision 06/13/2022 / -
- Abbreviations and acronyms:
 IMDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transportation
 IATA: International Air Transport Association
 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 11)

Printing date 06/13/2022

Revision date 06/13/2022

Trade name: CBDPA (CRM)

(Contd. from page 10)

us

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 Flam. Liq. 2: Flammable liquids – Category 2 Acute Tox. 4: Acute toxicity – Category 4 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A