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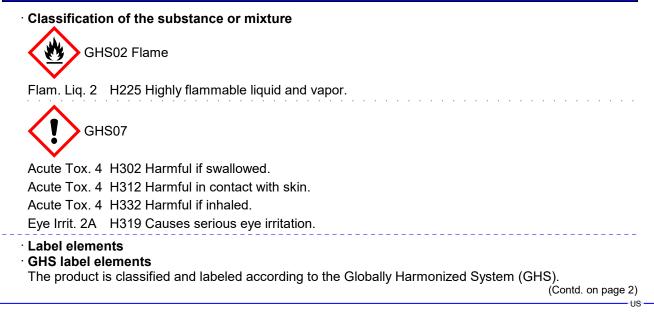
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1 Identification

- · Product identifier
- Trade name: (±)-CBCP
- · Article number: 36541
- **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



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Hazard pictogr	rams
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GHS02 GHS	07
Signal word Da	anger
	ining components of labeling:
Acetonitrile	
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	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312	If swallowed: Call a poison center/doctor if you feel unwell.
P303+P361+P3	53 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin wi water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P3	38 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, present and easy to do. Continue rinsing.
P321	Specific treatment (see on this label).
P330	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 (
He	ealth = 2
	re = 3
	eactivity = 0
HMIS-ratings (scale 0 - 4)
	lealth = 2
	ire = 3
FIRE 3 F	

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95.0%

5.0%

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- · 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
- Other ingredients

55824-16-3 (±)-CBCP

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.

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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 binders, sawdust).	
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 8 for information on personal protection equipment.	
See Section 13 for disposal information.	
Protective Action Criteria for Chemicals	
PAC-1:	
75-05-8 Acetonitrile 13 p	opm
PAC-2:	
75-05-8 Acetonitrile 50 p	opm
PAC-3:	
75-05-8 Acetonitrile 150 p	opm

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:
- 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:

75-05-8 Acetonitrile

PEL Long-term value: 70 mg/m³, 40 ppm

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REL Long-term value: 34 mg/m ³ ,	
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, bevera	
Immediately remove all soiled and	
Wash hands before breaks and at Avoid contact with the eyes.	the end of work.
Avoid contact with the eyes and sk	in.
· Breathing equipment:	
	pollution use respiratory filter device. In case of intensive or longer e device that is independent of circulating air.
Protective gloves	
Thotective gloves	
The player material has to be imposed	
	rmeable and resistant to the product/ the substance/ the preparation. nendation to the glove material can be given for the product/ the
preparation/ the chemical mixture.	
	n consideration of the penetration times, rates of diffusion and the
degradation · Material of gloves	
	es does not only depend on the material, but also on further marks of
	turer to manufacturer. As the product is a preparation of several
	glove material can not be calculated in advance and has therefore to
be checked prior to the application • Penetration time of glove materi	
	to be found out by the manufacturer of the protective gloves and has
to be observed.	
• Eye protection:	
Tightly sealed goggles	
<u> </u>	
9 Physical and chemical pro	perties
· Information on basic physical a	nd chemical properties
General Information	
· Appearance:	
Form:	Liquid
Color: · Odor:	According to product specification Characteristic
Structural Formula	C23H34O2
· Molecular Weight	342.5 g/mol
· Odor threshold:	Not determined.
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Formulation	A Solution in ACN
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/wate	er): Not determined.
Viscosity: Dynamic: Kinematic: SOLUBILITY	Not determined. Not determined. 50mg/ml ACN
Solvent content: VOC content:	0.00 % 0.0 g/l / 0.00 lb/gal
Solids content:	5.0 %
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.

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· Hazardous deco	ompositio	(Contd. from page n products: No dangerous decomposition products known.
1 Toxicologica	l inform	ation
 Information on Acute toxicity: 	toxicologi	ical effects
· LD/LC50 values	s that are r	elevant for classification:
ATE (Acute Tox	cicity Estin	nate)
Oral	LD50	2,589 mg/kg (rat)
Dermal	LD50	1,032 mg/kg (rabbit)
Inhalative	LC50/4 h	11.6 mg/l
75-05-8 Acetoni	itrile	
Oral	TDLO	64 ml/kg (man)
• • • •	LD50	2,460 mg/kg (rat)
Dermal	LD50	980 mg/kg (rabbit)
Inhalative	LC50/4 h	
	LC50	7,551 mg/m ³ /8h (rat)
	TCLO	160 mg/m³/4h (hmn)
Irritation of eyes	Irritation	100 µl/24 hr (rabbit)
	Irritation	100 ìl/24 hr (rabbit)
• Additional toxic	irritant effe ating effect lo sensitizi cological i	ng effects known.
· Carcinogenic ca	ategories	
· IARC (Internatio	onal Agen	cy for Research on Cancer)
None of the ingre	edients is l	isted.
· NTP (National T		
None of the ingre	edients is l	isted.
•	•	Safety & Health Administration)
None of the ingre	odion to io l	

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.

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- 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.

UN-Number		
DOT, IMDG, IATA	UN1648	
UN proper shipping name		
DOT, IATA	Acetonitrile solution	
IMDG	ACETONITRILE solution	
Transport hazard class(es)		
DOT		
RAMARE LOUD		
Class	3 Flammable liquids	
Label	3	
IMDG, IATA		
Class	3 Flammable liquids	
Label	3	
Packing group		
DOT, IMDG, IATA	II	
Environmental hazards:	Not applicable.	
Special precautions for user	Warning: Flammable liquids	

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 Hazard identification number (Kemler code) EMS Number: Stowage Category Stowage Code 	: 33 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: 5 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 Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.
· UN "Model Regulation":	UN 1648 ACETONITRILE SOLUTION, 3, II

15 Regulatory information

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

· Sara

None of the ingredients is listed.	
· 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.	
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• Chemicals known to cause developmental toxicity:	
None of the ingredients is listed.	

· Carcinogenic categories

· EPA (Environmental Protection Agency)

75-05-8 Acetonitrile

TLV (Threshold Limit Value)

75-05-8 Acetonitrile

· 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

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 02/25/2022 / -

· 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 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

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