

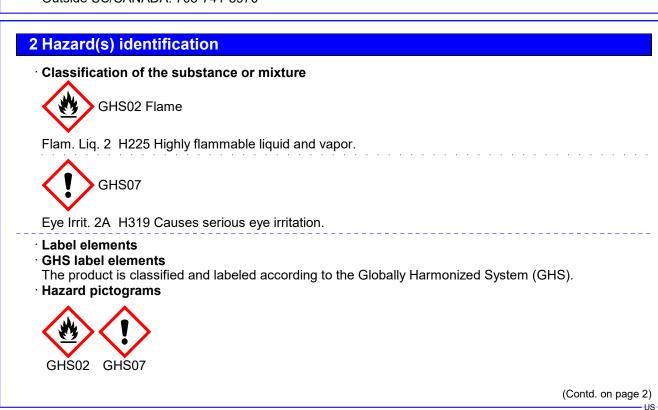
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1 Identification

- · Product identifier
- · Trade name: COX Inhibitor Screening Assay Arachidonic Acid (substrate)
- Article number: 460103
- **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



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Trade name: COX Inhibitor Screening Assay Arachidonic Acid (substrate)

		(Contd. from page 1)
· Signal word Da	anger	
· Hazard statem	ents	
H225 Highly fla	mmable liquid and vapor.	
H319 Causes s	erious eye irritation.	
· Precautionary		
P210	Keep away from heat/sparks/open flames/hot surfaces No smoki	na.
P233	Keep container tightly closed.	5
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.	
P264	Wash thoroughly after handling.	
P280	Wear protective gloves/protective clothing/eye protection/face prote	ection.
P303+P361+P3	53 If on skin (or hair): Take off immediately all contaminated clothing water/shower.	
P305+P351+P3	38 If in eyes: Rinse cautiously with water for several minutes. Remove present and easy to do. Continue rinsing.	e contact lenses, i
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/nat	ional/internationa
1001	regulations.	
Classification	•	
HMIS-ratings (HEALTH 2 H FIRE 3 F	lealth = 2 ire = 3	
Other hazards		
	n/information on ingredients	
	acterization: Mixtures ixture of the substances listed below with nonhazardous additions.	
· Dangerous co	nponents:	
CAS: 64-17-5 RTECS: KQ630	ethanol 00000	90.0%
Other ingredie		I
CAS: 506-32-1	Arachidonic acid	10.0%
RTECS: CE667		10.070

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4 First-aid measures

- · Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- · 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: 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.
- 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: No special measures required.

6 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: 64-17-5 ethanol 1,800 ppm · PAC-2: 64-17-5 ethanol 3300* ppm · PAC-3: 64-17-5 ethanol 15000* ppm

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7 Handling and storage

· Handling:

- Precautions for safe handling
- No special precautions are necessary if used correctly. Avoid breathing dust/fume/gas/mist/vapours/spray.
- Avoid prolonged or repeated exposure.
- Keep away from sources of ignition.
- Take precautionary measures against static discharge.re.
- 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:

64-17-5 ethanol

PEL Long-term value: 1900 mg/m³, 1000 ppm

- REL Long-term value: 1900 mg/m³, 1000 ppm
- TLV Short-term value: 1000 ppm A3

· 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: Not required.
- · 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.

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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

9 Physical and chemical properties

Information on basic physical and of General Information	chemical properties
Appearance:	
Form:	Liquid
Color:	According to product specification
Odor:	Characteristic
Odor threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	78 °C (172.4 °F)
Flash point:	13 °C (55.4 °F)
Flammability (solid, gaseous):	Not applicable.
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:	3.5 Vol %
Upper:	15 Vol %
Vapor pressure at 20 °C (68 °F):	59 hPa (44.3 mm Hg)
Density:	Not determined.
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Fully miscible.

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	(Contd. from p	age
Partition coefficient (n-octand	ol/water): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	90.0 %	
VOC content:	90.00 %	
	900.0 g/l / 7.51 lb/gal	
Solids content:	10.0 %	
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.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects

• Acute toxicity:

64-17-5 ethano	l	
Oral	TDLO	1.14 ml/kg (man)
	LD50	7,060 mg/kg (rat)
	TDLO	650 (man)
Dermal	LD50	40,000 mg/kg (rat)
Inhalative	TCLO	1,800 (hmn)
	LC50	10 h - 20,000 mg/m³ (rat)
	LD50 Inhalation TCLO	1,800 mg/m³/30m (hmn)
Irritation of skin	TDLO	1,800 mg/kg (wmn)
	Intraperitoneal LD50	280 mg/kg (rat)

Primary irritant effect:

• 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 for preparations:

Irritant

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1

- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

64-17-5 ethanol

· 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.
- · 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:

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	UN1170
UN proper shipping name	
DOT	Ethanol solutions
IMDG	ETHANOL SOLUTION (ETHYL ALCOH)
	SOLUTION)
ΙΑΤΑ	Ethanol solution

Safety Data Sheet

Trade name: COX Inhibitor Screening Assay Arachidonic Acid (substrate)	acc.	to OSHA HCS
Contd. from pag • Transport hazard class(es) • DOT • OClass 3 Flammable liquids • Label 3 • IMDG, IATA • • • • • • • • • • • • • • • • • • •	inting date 04/25/2022	Revision date 04/25/2022
Transport hazard class(es) DOT Impose Class 3 Flammable liquids Label 3 IMDG, IATA Impose 3 Flammable liquids Class 3 Flammable liquids Label 3 Packing group 3 DOT, IMDG, IATA II Environmental hazards: Not applicable. Special precautions for user Warning: Flammable liquids Hazard identification number (Kemler code): 33 F-E,S-D Stowage Category A Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information: DOT DOT On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L IMDG 1L Excepted quantities (LO) 1L Excepted quantities (EQ) 1L Code: E2 Maximum net quantity per outer packaging: 30 ml Maximum net quantity per outer packaging: 500 ml	ade name: COX Inhibitor Screening Assay A	Arachidonic Acid (substrate)
• DOT • Class 3 Flammable liquids • Label 3 • IMDG, IATA 3 • IMDG, IATA • • • • • • • • • • • • • • • • • • •		(Contd. from page 7
Class 3 Flammable liquids Label 3 IMDG, IATA 3 IMDG, IATA 1 Improvementation 3 Packing group 3 DOT, IMDG, IATA 1 Environmental hazards: Not applicable. Special precautions for user Warning: Flammable liquids Hazard identification number (Kemler code): 33 EMS Number: F-E,S-D Stowage Category A Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport /Additional information: DOT ODT On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L 'IMDG 1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml	· Transport hazard class(es)	
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Label 3 IMDG, IATA Impose the second sec		
Label 3 IMDG, IATA Image: Second	RAIMABLE LOUD	
Label 3 IMDG, IATA Image: Second		
IMDG, IATA View • Class 3 Flammable liquids • Label 3 • Packing group 3 • DOT, IMDG, IATA II • Environmental hazards: Not applicable. • Special precautions for user Warning: Flammable liquids • Hazard identification number (Kemler code): 33 • EMS Number: F-E,S-D • Stowage Category A • 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 1L • Limited quantities (LQ) 1L • Excepted quantities (EQ) 1L • Excepted quantities (EQ) 10		•
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Maximum net quantity per outer packaging: 500 ml	Excepted quantities (EQ)	
	·IATA	
• Remarks: When sold in quantities of less than or equal to 1 m or 1 g, with an Excepted Quantity Code of	· Remarks:	When sold in quantities of less than or equal to 1 mL,
		E1, E2, E4, or E5, this item meets the De Minimis
Quantities exemption, per IATA 2.6.10.		Quantities exemption, per IATA 2.6.10.
Dangerous Goods/Excepted Quantity.		Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.
	· UN "Model Regulation":	UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL
SOLUTION), 3, II	-	
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o further relevant information available. ara ection 355 (extremely hazardous substances): one of the ingredients is listed. ection 313 (Specific toxic chemical listings): one of the ingredients is listed. SCA (Toxic Substances Control Act): 4-17-5 ethanol azardous Air Pollutants one of the ingredients is listed. roposition 65 hemicals known to cause cancer: one of the ingredients is listed. hemicals known to cause reproductive toxicity for females:	ACTIVE
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one of the ingredients is listed.	
hemicals known to cause reproductive toxicity for males:	
one of the ingredients is listed.	
hemicals known to cause developmental toxicity:	
4-17-5 ethanol	
arcinogenic categories	
PA (Environmental Protection Agency)	
one of the ingredients is listed.	
LV (Threshold Limit Value)	
4-17-5 ethanol	A
IOSH-Ca (National Institute for Occupational Safety and Health)	· · · · ·

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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 04/25/2022 / -
- Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation

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E C	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)	(Contd. from page 9)
	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. Lig. 2: Flammable liguids – Category 2	
	Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A	