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1 Identification

- · Product identifier
- · Trade name: C18 Fatty Acid Methyl Ester Mixture
- · Synonym
- · Article number: 29369
- · Restrictions

This chemical/product is not and cannot be distributed in commerce (as defined in TSCA section 3(5)) or processed (as defined in TSCA section 3(13)) for consumer paint or coating removal.

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

Classification of the substance or mixture GHS06 Skull and crossbones	
Acute Toxicity - Oral 3	H301 Toxic if swallowed.
GHS08 Health hazard	
Germ Cell Mutagenicity 2	H341 Suspected of causing genetic defects.
Carcinogenicity 2	H351 Suspected of causing cancer.
Specific Target Organ Toxicity - Repeated Exposure 1	e H372 Causes damage to organs through prolonged or repeated exposure. (Contd. on page 2)

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\land	
GHS07	
Acute Toxicity - Dermal 4	H312 Harmful in contact with skin.
-	H332 Harmful if inhaled.
Acute Toxicity - Inhalation 4	
Skin Irritation 2	H315 Causes skin irritation.
Eye Irritation 2A	H319 Causes serious eye irritation.
Sensitization - Skin 1	H317 May cause an allergic skin reaction.
Specific Target Organ Toxicity - Single Ex	xposure 3 H335 May cause respiratory irritation.
Label elements	
GHS label elements	
	ording to the Globally Harmonized System (GHS).
Hazard pictograms	
$\land \land \land$	
$\langle \otimes \rangle \langle \rangle \rangle \langle \rangle \rangle \langle \rangle \rangle$	
GHS06 GHS07 GHS08	
• • • • • •	
Signal word Danger	
Hazard-determining components of lal	oeling:
Dichloromethane	
(6Z,9Z,12Z,15Z)-6,9,12,15-Octadecatetra	aenoic acid methyl ester
Stearic Acid methyl ester	
Hazard statements	
H301 Toxic if swallowed.	av if inhalad
H312+H332 Harmful in contact with skin H315 Causes skin irritation.	or il innaled.
H319 Causes serious eye irritation	
H317 May cause an allergic skin re	
H341 Suspected of causing geneti	
H351 Suspected of causing cance	
H335 May cause respiratory irritati	
H372 Causes damage to organs th	nrough prolonged or repeated exposure.
H372 Causes damage to organs the Precautionary statements	nrough prolonged or repeated exposure.
H372 Causes damage to organs th Precautionary statements P201 Obtain special instruct	nrough prolonged or repeated exposure. ions before use.
H372 Causes damage to organs the Precautionary statements P201 Obtain special instruct P202 Do not handle until all	nrough prolonged or repeated exposure. ions before use. safety precautions have been read and understood.
H372Causes damage to organs thePrecautionary statementsP201Obtain special instructP202Do not handle until allP260Do not breathe dust/fut	nrough prolonged or repeated exposure. ions before use. safety precautions have been read and understood. ime/gas/mist/vapors/spray.
H372Causes damage to organs thePrecautionary statementsP201Obtain special instructP202Do not handle until allP260Do not breathe dust/fueP264Wash thoroughly after	nrough prolonged or repeated exposure. ions before use. safety precautions have been read and understood. ime/gas/mist/vapors/spray. handling.
H372Causes damage to organs thePrecautionary statementsP201Obtain special instructP202Do not handle until allP260Do not breathe dust/fuP264Wash thoroughly afterP270Do not eat, drink or sn	nrough prolonged or repeated exposure. ions before use. safety precautions have been read and understood. ime/gas/mist/vapors/spray. handling. noke when using this product.
H372Causes damage to organs thePrecautionary statementsP201Obtain special instructP202Do not handle until allP260Do not breathe dust/fuP264Wash thoroughly afterP270Do not eat, drink or snP271Use only outdoors or in	nrough prolonged or repeated exposure. ions before use. safety precautions have been read and understood. ime/gas/mist/vapors/spray. handling. noke when using this product. n a well-ventilated area.
H372Causes damage to organs thePrecautionary statementsP201Obtain special instructP202Do not handle until allP260Do not breathe dust/fuP264Wash thoroughly afterP270Do not eat, drink or snP271Use only outdoors or inP272Contaminated work close	nrough prolonged or repeated exposure. ions before use. safety precautions have been read and understood. ime/gas/mist/vapors/spray. handling. noke when using this product. n a well-ventilated area. othing must not be allowed out of the workplace.
H372Causes damage to organs thePrecautionary statementsP201Obtain special instructP202Do not handle until allP260Do not breathe dust/fuP264Wash thoroughly afterP270Do not eat, drink or snP271Use only outdoors or inP272Contaminated work cleP280Wear protective gloves	nrough prolonged or repeated exposure. ions before use. safety precautions have been read and understood. ime/gas/mist/vapors/spray. handling. noke when using this product. n a well-ventilated area.
H372Causes damage to organs the Precautionary statementsP201Obtain special instruct Do not handle until all P260P260Do not breathe dust/ful Wash thoroughly after P270P271Use only outdoors or in P272P272Contaminated work cle Wear protective gloves P301+P310	nrough prolonged or repeated exposure. ions before use. safety precautions have been read and understood. ime/gas/mist/vapors/spray. handling. noke when using this product. n a well-ventilated area. othing must not be allowed out of the workplace. s/protective clothing/eye protection/face protection. tely call a poison center/doctor.
H372Causes damage to organs the Precautionary statementsP201Obtain special instruct Do not handle until all P260P260Do not breathe dust/ful Wash thoroughly after P270P271Use only outdoors or in P272P272Contaminated work cle Wear protective gloves P301+P310P321Specific treatment (see See See Specific treatment (see See 	nrough prolonged or repeated exposure. ions before use. safety precautions have been read and understood. ime/gas/mist/vapors/spray. handling. noke when using this product. n a well-ventilated area. othing must not be allowed out of the workplace. s/protective clothing/eye protection/face protection. tely call a poison center/doctor.
H372Causes damage to organs the Precautionary statementsP201Obtain special instructP202Do not handle until allP260Do not breathe dust/fueP264Wash thoroughly afterP270Do not eat, drink or snP271Use only outdoors or inP272Contaminated work cleP280Wear protective glove:P301+P310If swallowed: ImmediaP321Specific treatment (seeP330Rinse mouth.P302+P352If on skin: Wash with p	hrough prolonged or repeated exposure. ions before use. safety precautions have been read and understood. ime/gas/mist/vapors/spray. handling. hoke when using this product. n a well-ventilated area. othing must not be allowed out of the workplace. s/protective clothing/eye protection/face protection. itely call a poison center/doctor. e on this label). blenty of water.
H372Causes damage to organs thePrecautionary statementsP201Obtain special instructP202Do not handle until allP260Do not breathe dust/fueP264Wash thoroughly afterP270Do not eat, drink or snP271Use only outdoors or inP280Wear protective gloveP301+P310If swallowed: ImmediaP302+P352If on skin: Wash with pP304+P340IF INHALED: Remove	hrough prolonged or repeated exposure. tions before use. safety precautions have been read and understood. Ime/gas/mist/vapors/spray. handling. hoke when using this product. n a well-ventilated area. othing must not be allowed out of the workplace. s/protective clothing/eye protection/face protection. Itely call a poison center/doctor. e on this label). blenty of water. person to fresh air and keep comfortable for breathing.
H372Causes damage to organs thePrecautionary statementsP201Obtain special instructP202Do not handle until allP260Do not breathe dust/fueP264Wash thoroughly afterP270Do not eat, drink or snP271Use only outdoors or inP280Wear protective gloveP301+P310If swallowed: ImmediaP321Specific treatment (seeP330Rinse mouth.P302+P352If on skin: Wash with pP304+P340IF INHALED: RemoveP305+P351+P338If in eyes: Rinse caution	hrough prolonged or repeated exposure. tions before use. safety precautions have been read and understood. Ime/gas/mist/vapors/spray. handling. hoke when using this product. n a well-ventilated area. othing must not be allowed out of the workplace. s/protective clothing/eye protection/face protection. tely call a poison center/doctor. e on this label). blenty of water. person to fresh air and keep comfortable for breathing. busly with water for several minutes. Remove contact lenses,
H372Causes damage to organs thePrecautionary statementsP201Obtain special instructP202Do not handle until allP260Do not breathe dust/fueP264Wash thoroughly afterP270Do not eat, drink or snP271Use only outdoors or inP272Contaminated work cleP280Wear protective gloveP301+P310If swallowed: ImmediaP302+P352If on skin: Wash with pP304+P340IF INHALED: RemoveP305+P351+P338If in eyes: Rinse cautiopresent and easy to de	hrough prolonged or repeated exposure. tions before use. safety precautions have been read and understood. Ime/gas/mist/vapors/spray. handling. hoke when using this product. n a well-ventilated area. othing must not be allowed out of the workplace. s/protective clothing/eye protection/face protection. tely call a poison center/doctor. e on this label). blenty of water. person to fresh air and keep comfortable for breathing. busly with water for several minutes. Remove contact lenses,

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	(Co	ontd. from page 2)
P312	Call a poison center/doctor if you feel unwell.	
P314	Get medical advice/attention if you feel unwell.	
P362+P364	Take off contaminated clothing and wash it before reuse.	
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.	
P337+P313	If eye irritation persists: Get medical advice/attention.	
P363	Wash contaminated clothing before reuse.	
P403+P233	Store in a well-ventilated place. Keep container tightly closed.	
P405 P501	Store locked up.	l/internetional
P301	Dispose of contents/container in accordance with local/regional/nationa regulations.	al/international
· Classification sy		
NFPA ratings (s		
Ni i A latings (s		
Hea	lth = 2	
Fire	= 0	
2 0 Rea	ictivity = 0	
· HMIS-ratings (se	cale 0 - 4)	
HEALTH 2 He	alth = 2	
	e = 0	
	activity = 0	
REACTIVITY 0 Re	activity – 0	
 Other hazards 		
Results of PBT	and vPvB assessment	
• PBT: Not applica		
• vPvB: Not applic		
3 Composition	information on ingredients	
	cterization: Mixtures	
· Description: Mix	ture of the substances listed below with nonhazardous additions.	
 Dangerous com 	ponents:	
CAS: 75-09-2	Dichloromethane	97.87%
RTECS: PA8050		
CAS: 112-61-8	Stearic Acid methyl ester	0.369%
RTECS: WI4460		0.00370
CAS: 73097-00-4		0.369%
		0.309%
· Other ingredien	ts	
CAS: 112-62-9	Oleic Acid methyl ester	0.369%
RTECS RK0895	, , , , , , , , , , , , , , , , , , ,	

RTECS: RK0895000CAS: 112-63-0Linoleic Acid methyl ester0.369%CAS: 301-00-8α-Linolenic Acid methyl ester0.369%

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.

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In case of irregular breathing or respiratory arrest provide artificial respiration.

Supply fresh air and to be sure call for a doctor.

- In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: Do not induce vomiting; immediately call for medical help.
- · Information for doctor:
- Most important symptoms and effects, both acute and delayed 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
- 67-56-1During heating or in case of fire poisonous gases are produced.
- Advice for firefighters
- Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Mount respiratory protective device.
- Environmental precautions: 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 section 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

200 ppm
560 ppm
6,900 ppm
-

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7 Handling and storage

- · Handling:
- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols.
- Information about protection against explosions and fires: Keep respiratory protective device available.
- · 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: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- 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 section 7.

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

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

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

75-0	9-2 Dichloromethane
PEL	Short-term value: 125 ppm Long-term value: 25 ppm see 29 CFR 1910.1052
REL	See Pocket Guide App. A
TLV	Long-term value: 50 ppm BEI, A3
112-	61-8 Stearic Acid methyl ester
TLV	Long-term value: 10* 3** mg/m³ A4; Fraction: *inhalable **respirable
· Ingr	edients with biological limit values:
75-0	9-2 Dichloromethane
	0.3 mg/L Medium: urine Time: end of shift Parameter: Dichloromethane (semi-quantitative)
· Add	itional information: The lists that were valid during the creation were used as basis.
Pers Gen Keep Imm Was Store	osure controls sonal protective equipment: eral protective and hygienic measures: o away from foodstuffs, beverages and feed. ediately remove all soiled and contaminated clothing. th hands before breaks and at the end of work. e protective clothing separately. d contact with the eyes and skin.
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· 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:

Safety glasses



Tightly sealed goggles

9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information

Liquid Not determined. Like chlorine Not determined. A solution in dichloromethane Not determined.
Like chlorine Not determined. A solution in dichloromethane
Not determined. A solution in dichloromethane
A solution in dichloromethane
Not determined.
-95.1 °C (-139.2 °F) 40 °C (104 °F)
Not applicable.
Not applicable.
605 °C (1,121 °F)
Not determined.
Product is not selfigniting.

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· Danger of explosion:	Product does not present an explosion hazard.
 Explosion limits: Lower: Upper: 	13 Vol % 22 Vol %
· Vapor pressure at 20 °C (68 °F):	453 hPa (339.8 mm Hg)
 Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate 	1.33 g/cm³ (11.09885 lbs/gal) Not determined. Not determined. Not determined.
 Solubility in / Miscibility with Water at 20 °C (68 °F): 	20 g/l
· Partition coefficient (n-octanol/wat	er): Not determined.
 Viscosity: Dynamic at 20 °C (68 °F): Kinematic: 	0.43 mPas Not determined.
 Solvent content: Organic solvents: VOC content: 	97.9 % 0.00 % 0.0 g/l / 0.00 lb/gal
Solids content:	1.0 %
· 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:

 LD/LC50 values that are relevant for classification: 			
ATE (Acu	ATE (Acute Toxicity Estimate)		
Oral	LD50	125 mg/kg (rat)	
Dermal	LD50	1,355 mg/kg	
Inhalative	LC50/4 h	13.6 mg/l	
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75 00 2 0	ichloromethane	
		257 malka (hmn)
Oral	LDLO	357 mg/kg (hmn)
	LD50	1,600 mg/kg (rat)
	TDLO	1,429 μL/kg (man)
Inhalative		88 mg/l (rat)
	Intraperitoneal LD50	
	Subcutaneous LD50	6,460 mg/kg (mouse)
112-61-8 \$	Stearic Acid methyl e	ster
	Subcutaneous TDLO	5,200 mg/kg/26W intermittent (mouse)
on the eye Sensitizat Additiona	e: Irritating effect. :ion: Sensitization pos I toxicological inforn uct shows the followir	
on the eye Sensitizat Additiona The produ preparatio Toxic Harmful Irritant	e: Irritating effect. :ion: Sensitization pos I toxicological inforn uct shows the followir ns:	sible through skin contact. nation:
on the eye Sensitizat Additiona The produ preparatio Toxic Harmful Irritant Carcinoge	e: Irritating effect. ion: Sensitization pos I toxicological inforn uct shows the followir ns: enic categories	sible through skin contact. nation: ng dangers according to internally approved calculation methods fo
on the eye Sensitizat Additiona The produ preparatio Toxic Harmful Irritant Carcinoge IARC (Inte	e: Irritating effect. ion: Sensitization pos I toxicological inforn act shows the followir ns: enic categories ernational Agency for	sible through skin contact. nation: ng dangers according to internally approved calculation methods fo r Research on Cancer)
on the eye Sensitizat Additiona The produ preparatio Toxic Harmful Irritant Carcinoge IARC (Inte 75-09-2	e: Irritating effect. ion: Sensitization pos I toxicological inforn uct shows the followir ns: enic categories ernational Agency for bichloromethane	sible through skin contact. nation: ng dangers according to internally approved calculation methods fo Research on Cancer) 24
on the eye Sensitizat Additiona The produ preparatio Toxic Harmful Irritant Carcinoge IARC (Inte 75-09-2 [] NTP (Nati	e: Irritating effect. ion: Sensitization pos I toxicological inforn act shows the followin ns: enic categories ernational Agency for bichloromethane onal Toxicology Prog	sible through skin contact. nation: ng dangers according to internally approved calculation methods fo Research on Cancer) 2A
on the eye Sensitizat Additiona The produ preparatio Toxic Harmful Irritant Carcinoge IARC (Inte 75-09-2 [] NTP (Nati	e: Irritating effect. ion: Sensitization pos I toxicological inforn uct shows the followir ns: enic categories ernational Agency for bichloromethane	sible through skin contact. nation: ng dangers according to internally approved calculation methods for r Research on Cancer) 2A gram)
on the eye Sensitizat Additiona The produ preparatio Toxic Harmful Irritant Carcinoge IARC (Inte 75-09-2 [] NTP (Nati 75-09-2 []	e: Irritating effect. ion: Sensitization pos I toxicological inforn uct shows the followir ns: enic categories ernational Agency for bichloromethane onal Toxicology Prog bichloromethane	sible through skin contact. nation: ng dangers according to internally approved calculation methods fo Research on Cancer) 2A

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 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.

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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.

4 Transport information	
· 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 DOT, IMDG, IATA 	not regulated
· Environmental hazards:	Not applicable.
· Special precautions for user	Not applicable.
 Transport in bulk according to Annex MARPOL73/78 and the IBC Code 	t II of Not applicable.
· Transport/Additional information:	
· IATA · Remarks:	When sold in quantities of less than or equal to 1 mL, o 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":	not regulated

15 Regulatory information

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

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

• Section 313 (Specific toxic chemical listings):

75-09-2 Dichloromethane

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SCA (Taxia Subatanaga Control Act)	(Contd. from page
SCA (Toxic Substances Control Act): his chemical/product is not and cannot be distributed in comme	arce (as defined in TSCA section 3/
r processed (as defined in TSCA section 3(13)) for consumer pa	
75-09-2 Dichloromethane	ACTIVI
12-61-8 Stearic Acid methyl ester	ACTIVI
12-62-9 Oleic Acid methyl ester	ACTIVI
12-63-0 Linoleic Acid methyl ester	ACTIV
01-00-8 α-Linolenic Acid methyl ester	ACTIVI
azardous Air Pollutants	· · · ·
5-09-2 Dichloromethane	
roposition 65	
hemicals known to cause cancer:	
5-09-2 Dichloromethane	
hemicals known to cause reproductive toxicity for females:	
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:	
one of the ingredients is listed.	
arcinogenic categories	
PA (Environmental Protection Agency)	
5-09-2 Dichloromethane	
LV (Threshold Limit Value)	
5-09-2 Dichloromethane	A
IOSH-Ca (National Institute for Occupational Safety and Hea	alth)
5-09-2 Dichloromethane	-

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 07/25/2023
- 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)

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HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent D50: 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 BEI: Biological Exposure Limit Acute Toxicity - Oral 3: Acute toxicity – Category 3 Acute Toxicity - Orral 4: Acute toxicity – Category 4 Skin Irritation 2: Skin corrosion/irritation – Category 1 Germ Cell Mutagenicity 2: Germ cell mutagenicity – Category 2 Specific Target Organ Toxicity - Single Exposure 1: Specific target organ toxicity (single exposure) – Cate Specific Target Organ Toxicity - Single Exposure 1: Specific target organ toxicity (repeated exposure) – Cate	