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### **1** Identification

- Product identifier
- · Trade name: 1-(2-methoxyphenyl)piperazinium chloride
- · Article number: 37139
- CAS Number: 5464-78-8
- EC number: 226-762-6
- **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 Tox. 3 H301 Toxic if swallowed.

GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

STOT SE 3 H335 May cause respiratory irritation.

· Label elements

### · GHS label elements

The substance is classified and labeled according to the Globally Harmonized System (GHS).

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# Trade name: 1-(2-methoxyphenyl)piperazinium chloride • Hazard pictograms GHS06 GHS07 • Signal word Danger

H301 Toxic if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. · Precautionary statements Avoid breathing dust/fume/gas/mist/vapors/spray P261 P264 Wash thoroughly after handling. Do not eat, drink or smoke when using this product. P270 Use only outdoors or in a well-ventilated area. P271 P280 Wear protective gloves / eye protection / face protection. P301+P310 If swallowed: Immediately call a poison center/doctor. P321 Specific treatment (see on this label). P330 Rinse mouth. P302+P352 If on skin: Wash with plenty of water. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312 Call a poison center/doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. P362+P364 P332+P313 If skin irritation occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4)

NFFA fatilitys (scale 0 - 4



Health = 2 Fire = 0 Reactivity = 0

· HMIS-ratings (scale 0 - 4)

HEALTH	2	Health = 2
	_	Fire = 0
REACTIVITY	0	Reactivity =

· Other hazards

· Results of PBT and vPvB assessment

0

· **PBT:** Not applicable.

**vPvB:** Not applicable.

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### **3 Composition/information on ingredients**

- · Chemical characterization: Substances
- CAS No. Description
- 5464-78-8 1-(2-methoxyphenyl)piperazinium chloride
- Identification number(s)
- EC number: 226-762-6

### 4 First-aid measures

· Description of first aid measures

#### · General information:

Immediately remove any clothing soiled by the product.

- In case of irregular breathing or respiratory arrest provide artificial respiration.
- After inhalation: 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** 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.

### 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up: 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:** Substance is not listed.
- **PAC-2:** Substance is not listed.

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· PAC-3: Substance is not listed.

### 7 Handling and storage

- · Handling:
- Precautions for safe handling Thorough dedusting.
- · Information about protection against explosions and fires: No special measures required.
- · 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 item 7.

- · Control parameters
- · Components with limit values that require monitoring at the workplace: Not required.
- 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 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.

### · 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.

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• Eye protection: Tightly sealed goggles
9 Physical and chemical properties

<ul> <li>Information on basic physical and chemical properties</li> <li>General Information</li> <li>Appearance:</li> </ul>		
Form: Color: Odor: Structural Formula Molecular Weight Odor threshold:	Solid Not determined. Characteristic C11H16N2O • HCI 228.7 g/mol Not determined.	
· pH-value:	Not applicable.	
<ul> <li>Change in condition Melting point/Melting range: Boiling point/Boiling range:</li> </ul>	Undetermined. Undetermined.	
· Flash point:	Not applicable.	
<sup>•</sup> Flammability (solid, gaseous):	Product is not flammable.	
<ul> <li>Decomposition temperature:</li> </ul>	Not determined.	
· Auto igniting:	Not determined.	
<ul> <li>Danger of explosion:</li> </ul>	Product does not present an explosion hazard.	
<ul> <li>Explosion limits: Lower: Upper:</li> </ul>	Not determined. Not determined.	
· Vapor pressure:	Not applicable.	
<ul> <li>Density:</li> <li>Relative density</li> <li>Vapor density</li> <li>Evaporation rate</li> </ul>	Not determined. Not determined. Not applicable. Not applicable.	
<ul> <li>Solubility in / Miscibility with Water:</li> </ul>	Not determined.	
· Partition coefficient (n-octanol/water): Not determined.		
· Viscosity: Dynamic: Kinematic:	Not applicable. Not applicable.	
· Other information	No further relevant information available.	

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### **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:
- Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- · on the eye: Irritating effect.
- Sensitization: No sensitizing effects known.
- · Additional toxicological information:
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) Substance is not listed.
- · NTP (National Toxicology Program) Substance is not listed.
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is not 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.

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- Uncleaned packagings:
   Recommendation: Disposal must be made according to official regulations.

DOT, IMDG, IATA     UN2811       UN proper shipping name DOT     Toxic solids, organic, n.o.s. (1-(2-methoxypheny) piperazinium chloride)       IMDG     TOXIC SOLID, ORGANIC, N.O.S. (1-(2 methoxypheny))piperazinium chloride)       IATA     Toxic solid, organic, n.o.s. (1-(2-methoxypheny) piperazinium chloride)       Transport hazard class(es)     DOT       OOT     Image: Class Solid (Class)       Class     6.1 Toxic substances       Label     6.1       IMDG, IATA     Image: Class Solid (Class)       Class     6.1 Toxic substances       Label     6.1       IMDG, IATA     III       Image: Class Solid (Class)     Solid (Class)       Class     6.1 Toxic substances       Label     6.1       Special precautions for user     Warning: Toxic substances       Hazard identification number (Kemler code): 60     FA,S-A       Stowage Category     A       Transport in bulk according to Annex II of MARPOL7378 and the IBC Code     Not applicable.       Transport/Additional information::     DOT	LINI Numerican	
UN proper shipping name DOT       Toxic solids, organic, n.o.s. (1-(2-methoxypheny) piperazinium chloride)         IMDG       TOXIC SOLID, ORGANIC, N.O.S. (1-(2-methoxypheny)) piperazinium chloride)         IATA       Toxic solid, organic, n.o.s. (1-(2-methoxypheny)) piperazinium chloride)         Transport hazard class(es)       Toxic solid, organic, n.o.s. (1-(2-methoxypheny)) piperazinium chloride)         OT       Image: Class class (es)         DOT       Image: Class class (es)         Class class class class (es)       6.1 Toxic substances         Class class class class class class (eld)       6.1         IMDG, IATA       III         Image: Class	· UN-Number · DOT. IMDG. IATA	UN2811
DOT       Toxic solids, organic, n.o.s. (1-(2-methoxypheny piperazinium chloride)         IMDG       TOXIC SOLID, ORGANIC, N.O.S. (1-(2-methoxypheny piperazinium chloride)         IATA       Toxic solid, organic, n.o.s. (1-(2-methoxypheny piperazinium chloride)         Transport hazard class(es)       Toxic solid, organic, n.o.s. (1-(2-methoxypheny piperazinium chloride)         Transport hazard class(es)       DOT         Image: Class       6.1 Toxic substances         Label       6.1         Class       6.1 Toxic substances         Label       6.1         IMDG, IATA       III         Image: Class       6.1 Toxic substances         Label       6.1         Special precautions for user       Warning: Toxic substances         Hazard identification number (Kemler code): 60       F-A,S-A         Stowage Category       A         Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code       Not applicable.         Transport/Additional information:       DOT         DOT       Guantity limitations       On passenger aircraft/rail: 100 kg		
iMDG       piperazinium chloride)         TOXIC SOLID, ORGANIC, N.O.S. (1-(2 methoxyphenyl)piperazinium chloride)         IATA       Toxic solid, organic, n.o.s. (1-(2-methoxyphenyl)piperazinium chloride)         Transport hazard class(es)       DOT         Image: Class       6.1 Toxic substances         Label       6.1         IMDG, IATA       6.1         IMDG, IATA       6.1         Image: Class       6.1 Toxic substances         Label       6.1         ODT, IMDG, IATA       III         Packing group       0.1         DOT, IMDG, IATA       III         Packing group       6.1         Transport identification number (Kemler code): 60       F-A,S-A         Special precautions for user       F-A,S-A         Hazard identification number (Kemler code): 60       F-A,S-A         EMS Number:       F-A,S-A         Stowage Category       A         Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code       Not applicable.         Transport/Additional information:       DOT         DOT       Guantity limitations       On passenger aircraft/rail: 100 kg		Toxic solids organic nos (1-(2-methovyphen)
IMDG       TOXIC SOLID, ORGANIC, N.O.S. (1-(2         IATA       Toxic solid, organic, n.o.s. (1-(2-methoxypheny piperazinium chloride)         Transport hazard class(es)       DOT         IMDG       6.1 Toxic substances         Label       6.1         IMDG, IATA       6.1         IMDG, IATA       6.1         IMDG, IATA       6.1         IMDG, IATA       6.1         Pocking group       6.1         DOT, IMDG, IATA       III         Environmental hazards:       Not applicable.         Special precautions for user       Warning: Toxic substances         Hazard identification number (Kemler code):       60         FMS Number:       F-A,S-A         Stowage Category       A         Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code       Not applicable.         Transport/Additional information:       DOT         DOT       Quantity limitations       On passenger aircraft/rail: 100 kg		
IATA       Toxic solid, organic, n.o.s. (1-(2-methoxypheny piperazinium chloride)         Transport hazard class(es)       DOT         Image: Dot Tore       Image: Dot Tore         Image: Class       6.1 Toxic substances         Label       6.1         Image: Dot Tore       Image: Dot Tore         Image: Class       6.1 Toxic substances         Label       6.1         Image: Class       6.1 Toxic substances         Label       6.1         ODT, Image: Dot Tore       Image: Dot Tore         Image: Class       6.1 Toxic substances         Label       6.1         Packing group       Dot Image: Dot Imag	IMDG	TOXIC SOLID, ORGANIC, N.O.S. (1-(2
piperazinium chloride)  Transport hazard class(es)  DOT  Class Class Label 6.1  MDG, IATA  Class	1474	
Transport hazard class(es)         DOT         Impose         Class       6.1 Toxic substances         Label       6.1         IMDG, IATA         IMDG, IATA         Impose         Class       6.1 Toxic substances         Label       6.1         IMDG, IATA         Impose       6.1 Toxic substances         Label       6.1         Packing group       6.1         DOT, IMDG, IATA       III         Environmental hazards:       Not applicable.         Special precautions for user       Warning: Toxic substances         Hazard identification number (Kemler code): 60       60         EMS Number:       F-A,S-A         Stowage Category       A         Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code       Not applicable.         Transport/Additional information:       DOT         DOT       Quantity limitations       On passenger aircraft/rail: 100 kg		
DOT         Class       6.1 Toxic substances         Label       6.1         IMDG, IATA       6.1         Class       6.1 Toxic substances         Label       6.1         Packing group       6.1         DOT, IMDG, IATA       III         Environmental hazards:       Not applicable.         Special precautions for user       Warning: Toxic substances         Hazard identification number (Kemler code):       60         EMS Number:       F-A,S-A         Stowage Category       A         Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code       Not applicable.         Transport/Additional information:       DOT         DOT       Guantity limitations       On passenger aircraft/rail: 100 kg	Terror and the second state ( )	
Class       6.1 Toxic substances         Label       6.1         IMDG, IATA       6.1         IMDG, IATA       III         Class       6.1 Toxic substances         Label       6.1         Packing group       6.1         DOT, IMDG, IATA       III         Environmental hazards:       Not applicable.         Special precautions for user       Warning: Toxic substances         Hazard identification number (Kemler code): 60       F-A,S-A         Stowage Category       A         Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code       Not applicable.         Transport/Additional information:       Dot applicable.         DOT       Quantity limitations       On passenger aircraft/rail: 100 kg	I ransport hazard class(es)	
Class       6.1 Toxic substances         Label       6.1         IMDG, IATA       6.1         IMDG, IATA       III         Class       6.1 Toxic substances         Label       6.1         Packing group       6.1         DOT, IMDG, IATA       III         Environmental hazards:       Not applicable.         Special precautions for user       Warning: Toxic substances         Hazard identification number (Kemler code):       60         EMS Number:       F-A,S-A         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: 100 kg	DOT	
Class       6.1 Toxic substances         Label       6.1         IMDG, IATA       6.1         IMDG, IATA       III         Class       6.1 Toxic substances         Label       6.1         Packing group       6.1         DOT, IMDG, IATA       III         Environmental hazards:       Not applicable.         Special precautions for user       Warning: Toxic substances         Hazard identification number (Kemler code):       60         EMS Number:       F-A,S-A         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: 100 kg		
Label       6.1         IMDG, IATA       IMDG, IATA         Impose       6.1 Toxic substances         Class       6.1 Toxic substances         Label       6.1         Packing group       6.1         DOT, IMDG, IATA       III         Environmental hazards:       Not applicable.         Special precautions for user       Warning: Toxic substances         Hazard identification number (Kemler code): 60       F-A,S-A         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: 100 kg	Toxic	
Label       6.1         IMDG, IATA       IMDG, IATA         Impose       6.1 Toxic substances         Class       6.1 Toxic substances         Label       6.1         Packing group       6.1         DOT, IMDG, IATA       III         Environmental hazards:       Not applicable.         Special precautions for user       Warning: Toxic substances         Hazard identification number (Kemler code): 60       F-A,S-A         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: 100 kg	6	
Label       6.1         IMDG, IATA       IMDG, IATA         Impose       6.1 Toxic substances         Class       6.1 Toxic substances         Label       6.1         Packing group       6.1         DOT, IMDG, IATA       III         Environmental hazards:       Not applicable.         Special precautions for user       Warning: Toxic substances         Hazard identification number (Kemler code): 60       F-A,S-A         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: 100 kg	Class	6.1 Toxic substances
Class		
Class		
Label       6.1         Packing group       DOT, IMDG, IATA         DOT, IMDG, IATA       III         Environmental hazards:       Not applicable.         Special precautions for user       Warning: Toxic substances         Hazard identification number (Kemler code):       60         EMS Number:       F-A,S-A         Stowage Category       A         Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code       Not applicable.         Transport/Additional information:       On passenger aircraft/rail: 100 kg		
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Hazard identification number (Kemler code): 60         EMS Number:       F-A,S-A         Stowage Category       A         Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code       Not applicable.         Transport/Additional information:       •         • DOT       On passenger aircraft/rail: 100 kg	Environmental hazards:	Not applicable.
Hazard identification number (Kemler code): 60         EMS Number:       F-A,S-A         Stowage Category       A         Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code       Not applicable.         Transport/Additional information:       •         • DOT       On passenger aircraft/rail: 100 kg	Special precautions for user	Warning: Toxic substances
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: 100 kg	Hazard identification number (Kemler code):	
<ul> <li>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.</li> <li>Transport/Additional information:</li> <li>DOT</li> <li>Quantity limitations On passenger aircraft/rail: 100 kg</li> </ul>		
MARPOL73/78 and the IBC Code       Not applicable.         • Transport/Additional information:       •         • DOT       •         • Quantity limitations       On passenger aircraft/rail: 100 kg		A
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• Quantity limitations On passenger aircraft/rail: 100 kg	Transport/Additional information:	
	Quantity limitations	

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·IMDG	
· Limited quantities (LQ)	5 kg
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 g
	Maximum net quantity per outer packaging: 1000 g
·IATA	
· Remarks:	When sold in quantities of less than or equal to 1 m or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minim Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled a Dangerous Goods/Excepted Quantity.
UN "Model Regulation":	UN 2811 TOXIC SOLID, ORGANIC, N.O.S. (1-( METHOXYPHENYL)PIPERAZINIUM CHLORIDE 6.1, III

## 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): Substance is not listed.
- Section 313 (Specific toxic chemical listings): Substance is not listed.
- TSCA (Toxic Substances Control Act): Substance is not listed.
- · Hazardous Air Pollutants Substance is not listed.
- · Proposition 65
- · Chemicals known to cause cancer: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- · Chemicals known to cause developmental toxicity: Substance is not listed.
- Carcinogenic categories
- · EPA (Environmental Protection Agency) Substance is not listed.
- · TLV (Threshold Limit Value) Substance is not listed.
- NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not 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 06/09/2022 / -

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<ul> <li>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</li> </ul>	(Contd. from page 8)
CAS: Chemical Abstracts Service (division of the American Chemical Substances)	
NFPA: National Fire Protection Association (USA)	
HMIS: Hazardous Materials Identification System (USA)	
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	
Acute Tox. 3: Acute toxicity – Category 3	
Skin Irrit. 2: Skin corrosion/irritation – Category 2	
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A STOT SE 3: Specific target organ toxicity (single exposure) – Category 3	
STOT SE 5. Specific target organ toxicity (single exposure) – Category 5	US