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1 Identification

- · Product identifier
- · Trade name: Mescaline-d4 (hydrochloride) (CRM)
- Article number: 38456
- **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

<i>r</i> flammable liquid and vapor.	ammable Liquids 2
	GHS06 Skull and crossbones
if swallowed.	cute Toxicity - Oral 3
in contact with skin.	cute Toxicity - Dermal 3
if inhaled.	cute Toxicity - Inhalation 3
	$\mathbf{\land}$
	GHS08 Health hazard
	V
es damage to the central nervou n and the visual organs.	ecific Target Organ Toxicity - Single Ex

Safety Data Sheet acc. to OSHA HCS

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	(Contd. from page 1)
Label element	
· GHS label eler	
· Hazard pictog	classified and labeled according to the Globally Harmonized System (GHS). rams
GHS02 GHS	06 GHS08
· Signal word D	anger
· Hazard-determ	nining components of labeling:
Methanol	5 · · · · · · · · · · · · · · · · · · ·
 Hazard statem 	ients
H225	Highly flammable liquid and vapor.
H301+H311+H	331 Toxic if swallowed, in contact with skin or if inhaled.
H370	Causes damage to the central nervous system and the visual organs.
 Precautionary 	statements
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
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.
P260	Do not breathe 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+P310	If swallowed: Immediately call a poison center/doctor.
P321	Specific treatment (see on this label).
P330	Rinse mouth.
P303+P361+P3	353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P307+P311	IF exposed: Call a POISON CENTER or doctor/physician.
P312	Call a poison center/doctor if you feel unwell.
P361+P364	Take off immediately all contaminated clothing and wash it before reuse.
P370+P378	In case of fire: Use CO2, powder or water spray to extinguish.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international
	regulations.
Classification	
• NFPA ratings	(scale U - 4)
н	ealth = 2
	re = 3
	eactivity = 0
· HMIS-ratings ((scale 0 - 4)
	Health = *2 Time = 2
	Fire = 3
REACTIVITY 0 F	Reactivity = 0
	(Contd. on page 3)
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99.99%

0.01%

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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: 67-56-1 Methanol
- RTECS: PC1400000

Other ingredients

2762464-15-1 Mescaline-d4 (hydrochloride)

4 First-aid measures

· Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

Remove breathing apparatus only after contaminated clothing have been completely removed.

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

• After inhalation:

Supply fresh air or oxygen; call for 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. Then 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:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. 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.
 Wear protective equipment. Keep unprotected persons away.

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(Cc	ntd. from page 3)
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, sawd	ust).
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	
· PAC-1:	
67-56-1 Methanol	530 ppm
· PAC-2:	
67-56-1 Methanol	2,100 ppm
· PAC-3:	
67-56-1 Methanol	7200* ppm

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 ignition sources away - Do not smoke.
 Protect against electrostatic charges.
 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: 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 section 7.
- · Control parameters

Components with limit values that require monitoring at the workplace:

67-56-1 Methanol

- PEL Long-term value: 260 mg/m³, 200 ppm
- REL Short-term value: 325 mg/m³, 250 ppm
 - Long-term value: 260 mg/m³, 200 ppm Skin

- (Contd. on page 5)
 - US

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(Contd. from page 4) TLV Short-term value: 250 ppm Long-term value: 200 ppm Skin; BEI · Ingredients with biological limit values: 67-56-1 Methanol BEI 15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific) • 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. Store protective clothing separately. 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 guality 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

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Information on basic physical and	chemical properties
General Information	
Appearance: Form:	Liquid
Color:	According to product specification
Odor:	Alcohol-like
Structural Formula	C11H13D4NO3 • HCl
Molecular Weight	251.7 g/mol
Odor threshold:	Not determined.
Formulation	A 100 ug/ml solution in methanol
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	-98 °C (-144.4 °F)
Boiling point/Boiling range:	64.7 °C (148.5 °F)
Flash point:	9.7 °C (49.5 °F)
Flammability (solid, gaseous):	Highly flammable.
Auto igniting:	455 °C (851 °F)
Decomposition temperature:	Not determined.
· Ignition temperature: Product is not selfigniting.	
Danger of explosion:	Product is not explosive. However, formation of explosive air vapor mixtures are possible.
Explosion limits:	
Lower:	5.5 Vol %
Upper:	44 Vol %
Vapor pressure at 20 °C (68 °F):	128 hPa (96 mm Hg)
Density at 20 °C (68 °F):	0.79 g/cm³ (6.59255 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with Water at 20 °C (68 °F):	1000 g/l
Partition coefficient (n-octanol/wate	
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	100.0 %
VOC content:	99.99 %
	999.9 g/l / 8.34 lb/gal
Solids content:	0.0 %

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• 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 (Acute Toxicity Estimate)				
Oral	LD50	100 mg/kg (rat)		
Dermal	LD50	100 mg/kg (rat) 300 mg/kg (rabbit)		
Inhalative	LC50/4 h	3.1 mg/l (rat)		

67-56-1 Methanol

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Oral	LD50	100.1 mg/kg (rat)
		(Expert judgment)
		Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Tab 3.1/3.2)
		Symptoms: Nausea, Vomiting
Dermal	LD50	300.1 mg/kg (rabbit)
		(Expert judgment)
		Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Tab
		3.1/3.2)
Inhalative	LC50/4 h	3.1 mg/l (rat)
		(Expert judgment)
		Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Tab
		3.1/3.2)
		Symptoms: Irritation symptoms in the respiratory tract.

· on the eye: No irritating effect.

• Sensitization: No sensitizing effects known.

• Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Toxic

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- · 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.

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 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.

14 Transport information · UN-Number · DOT, IMDG, IATA UN1230 · UN proper shipping name · DOT, IATA Methanol solution · IMDG METHANOL solution (Contd. on page 9) US

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 Transport hazard class(es) DOT Class Class S Flammable liquids Label S. 6.1 IMDG Class Class Class Class Class Clase Class Clase Class Clase Clase<th></th><th>(Contd. from page 8</th>		(Contd. from page 8
Class 3 Flammable liquids Label 3, 6.1 IMDG 3, 6.1 Class 3 Flammable liquids Class 3 Flammable liquids Label 3.6.1 Class 3 Flammable liquids Label 3.6.1 IATA 3 Flammable liquids Class 3 Flammable liquids Label 3.6.1 IATA 3 (6.1) Class 3 (6.1) Environmental hazards: Not applicable. Special precautions for user Warning: Flammable liquids Hazard identification number (Kemier code): 336 Hezard identification number (Kemier code): 336 Hazard identification number (Kemier code): 336 Hezard identification number (Kemier code): 336 FHS Number: FLS-D Stowage Category B Stowage Code SW2 Clear of living quarters. Transport/Additional information: On cargo aircraft/rail: 1 L On cargo aircraft only: 60 L 'MDG 1 Code: E2 Limited quantities (LQ) 1 Code of less than or equal to 1 ml or 1 g, with an Excepted Quantity code of E1, E2, 4, or E5, this itum meets the De Minimi Quantities of Less than	· Transport hazard class(es)	
Class 3 Flammable liquids Label 3, 6, 1 IMDG Import Import Import	· DOT	
Class 3 Flammable liquids Label 3, 6, 1 IMDG Import Import Import		
Label 3, 6.1 IMDG IMDG Impose Impose Class 3 Flammable liquids Label 3/6.1 IATA Impose Impose Impose Class 3 Flammable liquids Label 3/6.1 IATA Impose Impose Impose ODT, IMDG, LATA II Environmental hazards: Not applicable. Special precautions for user Warning: Flammable liquids Hazard identification number (Kemler code): 336 FERS Number: F-E,S-D Stowage Category B Stowage Code SW2 Clear of living quarters. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information: On passenger aircraft/rail: 1 L On cargo aircraft only: 60 L Imited quantities (LQ) 1L Excepted quantities (EQ) 1L Excepted quantities (EQ) 1L Excepted 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. <th></th> <th></th>		
Label 3, 6.1 IMDG IMDG Impose Impose Class 3 Flammable liquids Label 3/6.1 IATA Impose Impose Impose Class 3 Flammable liquids Label 3/6.1 IATA Impose Impose Impose ODT, IMDG, LATA II Environmental hazards: Not applicable. Special precautions for user Warning: Flammable liquids Hazard identification number (Kemler code): 336 FERS Number: F-E,S-D Stowage Category B Stowage Code SW2 Clear of living quarters. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information: On passenger aircraft/rail: 1 L On cargo aircraft only: 60 L Imited quantities (LQ) 1L Excepted quantities (EQ) 1L Excepted quantities (EQ) 1L Excepted 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. <th>3 6</th> <th></th>	3 6	
IMDG • • • • • • • • • • • • • • •		
Class 3 Flammable liquids Label 3/6.1 IATA Second Class 3 Flammable liquids Label 3/6.1 IATA Second Class 3 Flammable liquids Label 3 (6.1) Packing group Second DOT, IMDG, IATA II Environmental hazards: Not applicable. Special precautions for user Warning: Flammable liquids Hazard identification number (Kemler code): 336 F-E,S-D Stowage Category B Stowage Code SW2 Clear of living quarters. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information: On passenger aircraft/rail: 1 L On cargo aircraft only: 60 L MDG Limited quantities (LQ) 1 Excepted quantities (EQ) 1 Kemarks: 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.		3, 6.1
Label 3/6.1 IATA IATA Image: Second Secon	·IMDG	
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EMS Number: F-E,S-D Stowage Category B Stowage Code 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 1L Excepted quantities (LQ) 1L Excepted quantities (EQ) Code: E2 Maximum net quantity per outer packaging: 30 ml Maximum net quantity per outer packaging: 500 ml IATA 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.		
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• Quantity limitations On passenger aircraft/rail: 1 L On cargo aircraft only: 60 L • IMDG 1L • Limited quantities (LQ) 1L • Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml • IATA • Remarks: • Vhen 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.	•	
 IMDG Limited quantities (LQ) Excepted quantities (EQ) IL 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. 		On nononger aircraft/rail: 1
 IMDG Limited quantities (LQ) Excepted quantities (EQ) 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. 		
 Limited quantities (LQ) Excepted quantities (EQ) IL 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. 	·IMDG	·····
 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. 	· Limited quantities (LQ)	
 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. 	 Excepted quantities (EQ) 	
 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. 		
• 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.	· IATA	
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.		
Quantities exemption, per IATA 2.6.10.		
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Printing date 04/19/2023

Revision date 04/19/2023

Trade name: Mescaline-d4 (hydrochloride) (CRM)

	(Contd. from page	
	Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.	
· UN "Model Regulation":	UN 1230 METHANOL SOLUTION, 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.	
· Section 313 (Specific toxic chemical listings):	
67-56-1 Methanol	
· TSCA (Toxic Substances Control Act):	
67-56-1 Methanol	ACTIVE
· Hazardous Air Pollutants	
67-56-1 Methanol	
· 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:	
67-56-1 Methanol	
· Carcinogenic categories	
· EPA (Environmental Protection Agency)	
None of the ingredients is listed.	
· TLV (Threshold Limit Value)	
None of the ingredients is listed.	
·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.

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US

Printing date 04/19/2023

Revision date 04/19/2023

Trade name: Mescaline-d4 (hydrochloride) (CRM)

	(Contd. from page 10)
Department issuing SDS: Environment protection department.	
Contact: -	
Date of preparation / last revision 04/19/2023	
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)	
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	
BEI: Biological Exposure Limit	
Flammable Liquids 2: Flammable liquids – Category 2	
Acute Toxicity - Oral 3: Acute toxicity – Category 3	
Specific Target Organ Toxicity - Single Exposure 1: Specific target organ toxicity (single exposure) – Category of	porv 1
	US -