Printing date 07/03/2024

Reviewed on 07/03/2024

1 Identification

- · Product identifier
- · Trade name: 1,2-Dichloroethane 10% v/v in Hexane
- · Article number: INV025
- Details of the supplier of the safety data sheet
 Manufacturer/Supplier: Aqua Solutions, Inc.
 6913 Highway 225 DEER PARK, TX 77536 USA 800-256-2586
- Information department: Technical Coordinator
 Sherman Nelson shermann@aquasolutions.org
 Emergency telephone number:
- *Chemtrec:* 800-424-9300 *Canutec:* 613-996-6666

2 Hazard(s) identification

· Classification of the substance or mixture



Flammable Liquids 2

H225 Highly flammable liquid and vapor.

H304 May be fatal if swallowed and enters airways.

repeated exposure.

GHS08 Health hazard

Carcinogenicity 2H351 Suspected of causing cancer.Toxic to Reproduction 2H361 Suspected of damaging fertility or the unborn child.Specific Target Organ Toxicity - Repeated Exposure 2H373 May cause damage to organs through prolonged or

Aspiration Hazard 1



Skin Irritation 2H315 Causes skin irritation.Eye Irritation 2AH319 Causes serious eye irritation.Specific Target Organ Toxicity - Single Exposure 3H336 May cause drowsiness or dizziness.

· Label elements

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms*



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Trade name: 1,2-Dichloroethane 10% v/v in Hexane

Signal word Danger	(Contd. of page 1)
Hazard-determining components of labeling:	
Hexane	
1,2-Dichloroethane (Ethylene Dichloride)	
Hazard statements	
Highly flammable liquid and vapor.	
Causes skin irritation.	
Causes serious eye irritation.	
Suspected of causing cancer.	
Suspected of damaging fertility or the unborn child.	
May cause drowsiness or dizziness.	
May cause damage to organs through prolonged or repeated exposure.	
May be fatal if swallowed and enters airways.	
Precautionary statements	
Obtain special instructions before use.	
Do not handle until all safety precautions have been read and understood.	
Keep away from heat/sparks/open flames/hot surfaces No smoking.	
Ground/bond container and receiving equipment.	
Use explosion-proof electrical/ventilating/lighting/equipment.	
Use only non-sparking tools.	
Take precautionary measures against static discharge.	
Do not breathe dust/fume/gas/mist/vapors/spray.	
Wash thoroughly after handling.	
Use only outdoors or in a well-ventilated area.	
Wear protective gloves/protective clothing/eye protection/face protection.	
If swallowed: Immediately call a poison center/doctor.	
Specific treatment (see on this label).	
Do NOT induce vomiting.	
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/show	wer.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if pres	ent and easy to do.
Continue rinsing.	
IF exposed or concerned: Get medical advice/attention.	
Call a poison center/doctor if you feel unwell.	
Get medical advice/attention if you feel unwell.	
Take off contaminated clothing and wash it before reuse.	
If skin irritation occurs: Get medical advice/attention.	
If eye irritation persists: Get medical advice/attention.	
In case of fire: Use CO2, powder or water spray to extinguish.	
Store in a well-ventilated place. Keep container tightly closed.	
Store in a well-ventilated place. Keep cool.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/international regula	tions.
Classification system:	
NFPA ratings (scale 0 - 4)	
$\frac{1}{3} Health = 2$	
Fire = 3	
$\frac{2}{0} Reactivity = 0$	
HMIS-ratings (scale 0 - 4)	
HEALTH 2 $Health = 2$	
FIRE 3 $Fire = 3$	
$\begin{array}{c} \text{Reactivity} = 0 \end{array}$	

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(Contd. of page 2)

82.615%

17.385%

- · 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: 110-54-3 Hexane

CAS: 107-06-2 1,2-Dichloroethane (Ethylene Dichloride)

4 First-aid measures

· Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- After inhalation: 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: If symptoms persist consult doctor.
- 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 During 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.
Environmental precautions: Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.

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US

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· 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

Trade name: 1,2-Dichloroethane 10% v/v in Hexane

• PAC-1:		
CAS: 110-54-3	Hexane	260 ppm
CAS: 107-06-2	1,2-Dichloroethane (Ethylene Dichloride)	50 ppm
· PAC-2:		
CAS: 110-54-3	Hexane	2900* ppm
CAS: 107-06-2	1,2-Dichloroethane (Ethylene Dichloride)	200 ppm
· PAC-3:		
CAS: 110-54-3	Hexane	8600** ppm
CAS: 107-06-2	1,2-Dichloroethane (Ethylene Dichloride)	300 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 fired for the second secon
- 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:
- 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:

CAS: 110-54-3 Hexane

PEL Long-term value: 1800 mg/m³, 500 ppm

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Trade name: 1,2-Dichloroethane 10% v/v in Hexane

REL Long-term value: 180 mg/m², 50 ppm TLV Long-term value: 50 ppm Skin; BEI CAS: 107-06-2 1,2-Dichloroethane (Ethylene Dichloride) PEL Long-term value: 50 ppm Ceiling limit value: 100: 200* ppm *5-min peak in any 3 hrs REL Short-term value: 8 mg/m², 2 ppm Long-term value: 4 mg/m², 1 ppm See Pocket Guide Apps. A and C TLV Long-term value: 10 ppm A4 Ingredients with biological limit values: CAS: 110-54-3 Hexane BEI 0.5 mg/L LD50 Intraperitoneal: urine Time: end of shift LD50: 2.5 -Hexanedione without hydrolysis - Additional information: The lists that were valid during the creation were used as basis. Exposure controls Personal protective equipment: General protective and hygicine 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 elothing separately. Avoid contact with the eyes and skin. Breathing equipment: In case o		(Contd. of page
Skin; BEI CAS: 107-06-2 1,2-Dichloroethane (Ethylene Dichloride) PEL Long-term value: 50 ppm Ceiling limit value: 100; 200* ppm *5-min peak in any 3 hrs REL Short-term value: 8 mg/m3, 2 ppm Long-term value: 4 mg/m3, 1 ppm See Pocket Guide Apps. A and C TIV Long-term value: 10 ppm A4 A Ingredients with biological limit values: CAS: 110-54-3 Hexane BEI 0.5 mg/L LD50 Intraperitoneal: urine Time: and of shift LD50: 2.5-Hexanedione without hydrolysis Additional information: The lists that were valid during the creation were used as basis. Exposure controls Personal protective equipment: General protective equipment: General protective equipment: May Soled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective elothing 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 respiratory protective elovi	REL	Long-term value: 180 mg/m ³ , 50 ppm
PEL Long-term value: 50 ppm Ceiling limit value: 100; 200* ppm *5-min peak in any 3 hrs REL Short-term value: 8 mg/m², 2 ppm Long-term value: 4 mg/m², 1 ppm See Pocket Guide Apps. A and C TLV Long-term value: 10 ppm A4 Ingredients with biological limit values: CAS: 110-54-3 Hexane BEI 0.5 mg/L LD50 Intraperitoneal: urine Time: end of shift LD50: 2.5-Hexanedione without hydrolysis Additional information: The lists that were valid during the creation were used as basis. Exposure controls Personal protective equipment: General protective equipment: General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Inmediately remove all solied and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes and skin. Breaching equipment: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure respiratory protective device that is independent of circulating air. Protection of hands: <tr< td=""><td>TLV</td><td></td></tr<>	TLV	
Ceiling limit value: 100; 200* ppm *5-min peak in any 3 hrs REL Short-term value: 4 mg/m³, 1 ppm See Pocket Guide Apps. A and C TIV Long-term value: 10 ppm A4 Ingredients with biological limit values: CAS: 110-54-3 Hexane BEI 0.5 mg/L LD50 Intraperitoneal: urine Time: end of shift LD50: 2.5-Hexanedione without hydrolysis 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 respiratory protective device that is independent of circulating air. Protection of hands: Viol Drate way from foldstuffs, beverages and resistant to the product/ the substance/ the preparation.<	CAS	107-06-2 1,2-Dichloroethane (Ethylene Dichloride)
Long-term value: 4 mg/m ³ , 1 ppm See Pocket Guide Apps. A and C TIV Long-term value: 10 ppm A4 Ingredients with biological limit values: CCS: 110-54-3 Hexane BEI 0.5 mg/L LD50 Intraperitoneal: urine Time: end of shift LD50: 2.5-Hexanedione without hydrolysis Additional information: The lists that were valid during the creation were used as basis. Exposure controls Personal protective equipment: General 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 respiratory protective device that is independent of circulating air. Protection of hands: 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./ Selection of the gloves Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Material of gloves	PEL	Ceiling limit value: 100; 200* ppm
A4 Ingredients with biological limit values: CAS: 110-54-3 Hexane BEI 0.5 mg/L LD50 Intraperitoneal: urine Time: end of shift LD50: 2.5-Hexanedione without hydrolysis • 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 respiratory protective device that is independent of circulating air. Protection of hands: Vovid 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/ chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation	REL	Short-term value: 8 mg/m ³ , 2 ppm Long-term value: 4 mg/m ³ , 1 ppm
CAS: 110-54-3 Hexane BEI 0.5 mg/L LD50 Intraperitoneal: urine Time: end of shift LD50: 2.5-Hexanedione without hydrolysis 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 respiratory protective device that is independent of circulating air. Protection of hands: View 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/ chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Material of gloves	TLV	
BEI 0.5 mg/L LD50 Intraperitoneal: urine Time: end of shift LD50: 2.5-Hexanedione without hydrolysis 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 respiratory protective device that is independent of circulating air. Protection of hands: View 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/ chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Material of gloves	Ingre	edients with biological limit values:
LD50 Intraperitoneal: urine Time: end of shift LD50: 2.5-Hexanedione without hydrolysis Additional information: The lists that were valid during the creation were used as basis. Exposure controls Personal 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 respiratory protective device that is independent of circulating air. Protection of hands: 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/ chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Material of gloves	CAS.	- 110-54-3 Hexane
 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 respiratory protective device that is independent of circulating air. Protection of hands: 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/ chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Material of gloves 		LD50 Intraperitoneal: urine Time: end of shift
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 respiratory protective device that is independent of circulating air. Protection of hands: 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/ chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Material of 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/ chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Material of gloves	Perso Gene Keep Imme Wash Store Avoid Brea In ca respi	<pre>onal protective equipment: ral protective and hygienic measures: away from foodstuffs, beverages and feed. ediately remove all soiled and contaminated clothing. a hands before breaks and at the end of work. protective clothing separately. d contact with the eyes and skin. thing equipment: se of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure us ratory protective device that is independent of circulating air. ection of hands:</pre>
chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation • Material of gloves		glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality of varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance	chem Selec Mate The s	ical mixture. tion of the glove material on consideration of the penetration times, rates of diffusion and the degradation rial of gloves relection of the suitable gloves does not only depend on the material, but also on further marks of quality ar

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.

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Trade name: 1,2-Dichloroethane 10% v/v in Hexane

• Eye protection:

(Contd. of page 5)



*

Tightly sealed goggles

· Body protection: Protective work clothing

Information on basic physical and ch	hemical properties
General Information	
Appearance:	· · · · ·
Form:	Liquid
Color:	Clear
Odor: Odor threshold:	Odorless Not determined.
pH-value:	Not determined.
·	nor accommed.
Change in condition	II. d. A
Melting point/Melting range:	Undetermined. 69 °C (156.2 °F)
Boiling point/Boiling range:	
Flash point:	-26 °C (-14.8 °F)
Flammability (solid, gaseous):	Highly flammable.
Auto igniting:	240 °C (464 °F)
Decomposition temperature:	Not determined.
Ignition temperature:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapo mixtures are possible.
Explosion limits:	
Lower:	1.2 Vol %
Upper:	16 Vol %
Vapor pressure at 20 °C (68 °F):	160 hPa (120 mm Hg)
Vapor pressure at 50 $^{\circ}C$ (122 $^{\circ}F$):	540 hPa (405 mm Hg)
Density at 20 °C (68 °F):	0.76257 g/cm ³ (6.36365 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Fully miscible.
Partition coefficient (n-octanol/water	r): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.

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Trade name: 1,2-Dichloroethane 10% v/v in Hexane

	(0	Contd. of page 6)
· Solvent content: Organic solvents: VOC content:	82.6 % 82.61 % 630.0 g/l / 5.26 lb/gal	
Solids content:	0.0 %	
• 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 (Acute Toxicity Estimate)

Oral LD50 2,876 mg/kg

- · 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:

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

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)	
CAS: 107-06-2 1,2-Dichloroethane (Ethylene Dichloride)	2B
· NTP (National Toxicology Program)	
CAS: 107-06-2 1,2-Dichloroethane (Ethylene Dichloride)	R
· 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.

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Trade name: 1,2-Dichloroethane 10% v/v in Hexane

(Contd. of page 7)

- · Mobility in soil No further relevant information available.
- · Additional ecological information:

· General notes:

Water hazard class 3 (Self-assessment): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely 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 UN1993 · UN proper shipping name $\cdot DOT$ Flammable liquids, n.o.s. (Hexane, 1,2-Dichloroethane (Ethylene Dichloride)) · IMDG FLAMMABLE LIQUID, N.O.S. (Hexane, 1,2-Dichloroethane (Ethylene Dichloride)), MARINE POLLUTANT ·IATA FLAMMABLE LIQUID, N.O.S. (Hexane, 1,2-Dichloroethane (Ethylene Dichloride)) · Transport hazard class(es) · DOT · Class 3 Flammable liquids · Label 3 _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ · IMDG · Class 3 Flammable liquids (Contd. on page 9) US

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Trade name: 1,2-Dichloroethane 10% v/v in Hexane

	(Contd. of page
Label	3
IATA	
Class	3 Flammable liquids
Label	3
Packing group DOT, IMDG, IATA	II
Environmental hazards: Marine pollutant:	Product contains environmentally hazardous substances: Hexan Symbol (fish and tree)
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler code):	
EMS Number:	F-E,S-D
Stowage Category	В
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 5 L
	On cargo aircraft only: 60 L
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (HEXANE, 1,
	DICHLOROETHANE (ETHYLENE DICHLORIDE)), 3, 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):
- All ingredients are listed.
- · TSCA (Toxic Substances Control Act):

Hexane

- 1,2-Dichloroethane (Ethylene Dichloride)
- · Hazardous Air Pollutants
- All ingredients are listed.

(Contd. on page 10)

ACTIVE ACTIVE

II

B2

A4

Safety Data Sheet acc. to OSHA HCS

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Trade name: 1,2-Dichloroethane 10% v/v in Hexane

	(Contd. of page 9)
· Proposition 65	
· Chemicals known to cause cancer:	
CAS: 107-06-2 1,2-Dichloroethane (Ethylene Dichloride)	
· Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
· Chemicals known to cause reproductive toxicity for males:	
CAS: 110-54-3 Hexane	
· Chemicals known to cause developmental toxicity:	
None of the ingredients is listed.	
· Carcinogenic categories	

· EPA (Environmental Protection Agency)

CAS: 110-54-3 Hexane

CAS: 107-06-2 1,2-Dichloroethane (Ethylene Dichloride)

· TLV (Threshold Limit Value)

CAS: 107-06-2 1,2-Dichloroethane (Ethylene Dichloride)

· NIOSH-Ca (National Institute for Occupational Safety and Health)

CAS: 107-06-2 1,2-Dichloroethane (Ethylene Dichloride)

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms*



· Signal word Danger

· Hazard-determining components of labeling: Hexane 1,2-Dichloroethane (Ethylene Dichloride) · Hazard statements Highly flammable liquid and vapor. Causes skin irritation. Causes serious eye irritation. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways. · Precautionary statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area.

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Reviewed on 07/03/2024

Trade name: 1,2-Dichloroethane 10% v/v in Hexane

	(Contd. of page 10)
Wear protective gloves/protective clothing/eye protection/face protection.	
If swallowed: Immediately call a poison center/doctor.	
Specific treatment (see on this label).	
Do NOT induce vomiting.	
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with we	ater/shower.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses	, if present and easy to do
Continue rinsing.	· · ·
IF exposed or concerned: Get medical advice/attention.	
Call a poison center/doctor if you feel unwell.	
Get medical advice/attention if you feel unwell.	
Take off contaminated clothing and wash it before reuse.	
If skin irritation occurs: Get medical advice/attention.	
f eye irritation persists: Get medical advice/attention.	
In case of fire: Use CO2, powder or water spray to extinguish.	
Store in a well-ventilated place. Keep container tightly closed.	
Store in a well-ventilated place. Keep cool.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/internationa	l regulations.
Chemical safety assessment: A Chemical Safety Assessment has not been carried out.	~

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Environment protection department. · Contact: Date of Preparation / Last Revision: · Date of preparation / last revision Revision 1.2 07/03/2024: Reviewed SDS for accuracy. MH/STN 07/03/2024 / 1.0 · 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 Skin Irritation 2: Skin corrosion/irritation – Category 2 Eye Irritation 2A: Serious eye damage/eye irritation - Category 2A Carcinogenicity 2: Carcinogenicity – Category 2 Toxic to Reproduction 2: Reproductive toxicity – Category 2 Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) - Category 3 Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) - Category 2 (Contd. on page 12)

Printing date 07/03/2024

Reviewed on 07/03/2024

Trade name: 1,2-Dichloroethane 10% v/v in Hexane

Aspiration Hazard 1: Aspiration hazard – Category 1 • * Data compared to the previous version altered. (Contd. of page 11)

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