SAFETY DATA SHEET



OQ - PV Headspace Sample

SECTION 1: Identification of the substance/mixture and of the company/ undertaking **1.1 Product identifier Product name** : OQ - PV Headspace Sample Part no. : 5182-9733 1.2 Relevant identified uses of the substance or mixture and uses advised against **Identified uses** : Reagents and Standards for Analytical Chemistry Laboratory Use 1 ml **Uses advised against** : None known. 1.3 Details of the supplier of the safety data sheet Agilent Technologies Deutschland GmbH Hewlett-Packard-Str. 8 76337 Waldbronn Germany 0800 603 1000 e-mail address of person : pdl-msds author@agilent.com responsible for this SDS 1.4 Emergency telephone number **Emergency telephone** : CHEMTREC®: +(44)-870-8200418 number (with hours of

SECTION 2: Hazards identification

2.1 Classification of th	e substance or mixture	
Product definition	: Mixture	
Classification accord	ling to Regulation (EC) No. 1272/2008 [CLP/GHS]	
H225	FLAMMABLE LIQUIDS	Category 2
H319	SERIOUS EYE DAMAGE/EYE IRRITATION	Category 2
H412	LONG-TERM (CHRONIC) AQUATIC HAZARD	Category 3
The preduct is close if	$r = h_{0} + r = h_{0} + h_{0$	

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

operation)

Hazard pictograms



Signal word Hazard statements	 Danger H225 - Highly flammable liquid and vapour. H319 - Causes serious eye irritation.
Precautionary statements Prevention	 H412 - Harmful to aquatic life with long lasting effects. P280 - Wear eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P273 - Avoid release to the environment.

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SECTION 2: Hazards identification

Response	: P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.
Storage	: Not applicable.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	: Contains 1,2-dichlorobenzene. May produce an allergic reaction.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.
Special packaging require	ments
Tactile warning of danger	: Not applicable.
2.3 Other hazards	
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	: None known.

SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
ethanol	EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5	≥90	Flam. Liq. 2, H225 Eye Irrit. 2, H319	Eye Irrit. 2, H319: C ≥ 50%	[1] [2]
1,2-dichlorobenzene	EC: 202-425-9 CAS: 95-50-1 Index: 602-034-00-7	≤0.3	Acute Tox. 4, H302 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 500 mg/kg ATE [Inhalation (vapours)] = 11 mg/l M [Acute] = 1 M [Chronic] = 1	[1] [2]
nitrobenzene	EC: 202-716-0 CAS: 98-95-3 Index: 609-003-00-7	<0.3	Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 Carc. 2, H351 Repr. 1B, H360F STOT RE 1, H372 (blood) Aquatic Chronic 3, H412	ATE [Oral] = 100 mg/kg ATE [Dermal] = 760 mg/kg ATE [Inhalation (vapours)] = 2.8 mg/ I	[1] [2]

SECTION 3: Composition/information on ingredients

See Section 16 for	
the full text of the H	
statements declared	
above.	

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Туре

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	:	Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute healt	<u>n effects</u>
Eye contact	: Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
<u>Over-exposure signs</u>	/symptoms
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.
4.3 Indication of any ir	nmediate medical attention and special treatment needed
Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

SECTION 4: First aid measures

Specific treatments : No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
5.2 Special hazards arising	from the substance or mixture
Hazards from the substance or mixture	: Highly flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapour/gas is heavier than air and will spread along the ground. Vapours may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide
5.3 Advice for firefighters	
Special precautions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire- fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
6.3 Methods and materia	Il for containment and cleaning up

Methods for cleaning up : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

SECTION 6: Accidental release measures

6.4 Reference to other	: See Section 1 for emergency contact information.
sections	See Section 8 for information on appropriate personal protective equipment.
	See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
	retain product residue and can be nazardods. Do not reuse container.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Storage : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Seveso Directive - Reporting thresholds

Danger criteria

• •	Notification and MAPP threshold	Safety report threshold
P5c	5000 tonne	50000 tonne

7.3 Specific end use(s)

- : Industrial applications, Professional applications.
- **Recommendations** : Industrial applied industrial sector specific : Not available.
- solutions

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values						
ethanol	NAOSH (Ireland, 5/2021). Notes: Advisory Occupational						
	Exposure Limit Values (OELVs)						
	OELV: 1000 ppm 15 minutes.						
1,2-dichlorobenzene	NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values						
	OELV: 20 ppm 8 hours.						
	OELV: 122 mg/m ³ 8 hours.						
	OELV: 50 ppm 15 minutes.						
	OELV: 306 mg/m ³ 15 minutes.						
Date of issue/Date of revision : 31/05/2024	Date of previous issue : No previous validation Version : 1 5/15						

SECTION 8: Exposure controls/personal protection

nitrobenzene	NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values
	OELV: 0.2 ppm 8 hours. OELV: 1 mg/m ³ 8 hours.
Pielogical exposure indiana	

Biological exposure indices Product/ingredient name Exposure indices NAOSH (Ireland, 1/2011) nitrobenzene BMGV: 1.5 % of haemoglobin [Semi-quantitative, the biological analyte is an indicator of exposure to the substance but the quantitative interpretation of the measurement is ambiguous. These analytes should be used as a screening test if a quantitative test is not practical; or as a confirmatory test if the quantitative test is not specific and the origin of the determinant is in question.], methaemoglobin [in blood]. Sampling time: end of shift - As soon as possible after exposure ceases. BMGV: 5 mg/g creatinine, p-nitrophenol [in urine]. Sampling time: end of shift at end of workweek. Recommended Reference should be made to monitoring standards, such as the following: European 2 monitoring procedures

Recommended monitoring procedures Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
thanol	DNEL	Long term Inhalation	380 mg/m³	Workers	Systemic
	DNEL	Long term Oral	87 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	114 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	206 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	343 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	950 mg/m ³	General population	Local
	DNEL	Short term Inhalation	1900 mg/ m³	Workers	Local
,2-dichlorobenzene	DNEL	Short term Inhalation	5 mg/m³	General population	Systemic
	DNEL	Long term Oral	0.6 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.6 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	1 mg/m³	General population	Systemic
	DNEL	Long term Dermal	1.2 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Oral	3 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	3 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	4.2 mg/m ³	Workers	Systemic
	DNEL	Short term Dermal	6 mg/kg bw/day	Workers	Systemic

SECTION 8: Exposure controls/personal protection

	ng/m ³ Workers Systemic
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PNECs

No PNECs available

8.2 Exposure controls		
Appropriate engineering controls	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation other engineering controls to keep worker exposure to airborne contaminants below recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proc ventilation equipment.	/ any
Individual protection meas	2	
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, befor eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing Wash contaminated clothing before reusing. Ensure that eyewash stations and saf showers are close to the workstation location.	
Eye/face protection	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unlet the assessment indicates a higher degree of protection: chemical splash goggles.	SS
Skin protection		
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should worn at all times when handling chemical products if a risk assessment indicates th necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for differ glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.	is is c
Body protection	Personal protective equipment for the body should be selected based on the task be performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear ar static protective clothing. For the greatest protection from static discharges, clothin should include anti-static overalls, boots and gloves. Refer to European Standard E 1149 for further information on material and design requirements and test methods.	nti- g EN
Other skin protection	Appropriate footwear and any additional skin protection measures should be selecte based on the task being performed and the risks involved and should be approved l specialist before handling this product.	
Respiratory protection	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.	
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.	

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

: Liquid. [Clear.]
: Colourless.
: Ethereal./Vinous.
: Not available.

SECTION 9: Physical and chemical properties

Melting point/freezing point	1	-117°C	
Initial boiling point and boiling range	1	78.3°C	
Flammability	:	Not applicable.	
Upper/lower flammability or explosive limits	:	Lower: 3.3% Upper: 19%	
Flash point	1	Open cup: 12.7°C	
Auto-ignition temperature	:	422°C	
Decomposition temperature	:	Not available.	
рН	:	Not available.	
Viscosity	:	Not available.	
Solubility(ies)	1	Media	Result
		water	Soluble
Miscible with water	:	Yes.	
Partition coefficient: n- octanol/water	:	Not applicable.	
Vapour pressure	:	5.7 kPa (43 mm Hg)	
Evaporation rate	1	>4 (butyl acetate = 1)	
Relative density	:	Not available.	
Vapour density	1	1.7 [Air = 1]	
Explosive properties		Net evellette	
Explosive properties	4	Not available.	
Oxidising properties		Not available.	
Oxidising properties	:		

9.2 Other information

No additional information.

SECTION 10: Stabil	SECTION 10: Stability and reactivity					
10.1 Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.				
10.2 Chemical stability	:	The product is stable.				
10.3 Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.				
10.4 Conditions to avoid	:	Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapour to accumulate in low or confined areas.				
10.5 Incompatible materials	:	Reactive or incompatible with the following materials: oxidising materials Reactive or incompatible with the following materials: acids and alkalis.				
10.6 Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.				

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
ethanol	LC50 Inhalation Vapour	Rat	124700 mg/m ³	4 hours
	LD50 Oral	Rat	7 g/kg	-
1,2-dichlorobenzene	LC50 Inhalation Dusts and mists	Rat	8150 mg/m ³	4 hours
	LD50 Dermal	Rabbit	>10 g/kg	-
	LD50 Oral	Rat	500 mg/kg	-
nitrobenzene	LC50 Inhalation Vapour	Rat	556 ppm	4 hours
	LD50 Dermal	Rabbit	760 mg/kg	-
	LD50 Dermal	Rat	2100 mg/kg	-
	LD50 Oral	Rat	349 mg/kg	-

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
OQ - PV Headspace Sample	39447.7	299802.8	N/A	1104.5	N/A
ethanol	7000	N/A	N/A	124.7	N/A
1,2-dichlorobenzene nitrobenzene	500 100		N/A N/A	11 2.8	8.15 N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
ethanol	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
	Eyes - Moderate irritant	Rabbit	-	mg 0.066666667 minutes 100	-
	Eyes - Moderate irritant	Rabbit	-	mg 100 uL	-
1,2-dichlorobenzene	Eyes - Mild irritant	Rabbit	-	0.5 minutes 100 mg	-
nitrobenzene	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
Skin :	Repeated exposure may cau	ise skin dryness o	or cracking		+

U.I.I.	· Repeated expediate m
<u>Sensitiser</u>	
Conclusion/Summary	: Not available.
Mutagenicity	
Conclusion/Summary	: Not available.
Carcinogenicity	
Conclusion/Summary	: Not available.
Reproductive toxicity	
Conclusion/Summary	: Not available.
Teratogenicity	
Conclusion/Summary	: Not available.
Specific target organ to	(icity (single exposure)

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
1,2-dichlorobenzene	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

SECTION 11: Toxicological information

Product/i	ngredient name	Category	Route of exposure	Target organs
nitrobenzene		Category 1	-	blood
Aspiration hazard Not available.			•	
nformation on likely outes of exposure	: Routes of entry ant	icipated: Oral, Dermal, Inha	lation, Eyes.	
Potential acute health eff	fects			
Inhalation	: No known significa	nt effects or critical hazards		
Ingestion	: No known significa	nt effects or critical hazards		
Skin contact	: No known significa	nt effects or critical hazards		
Eye contact	: Causes serious eye	e irritation.		
Symptoms related to the	physical, chemical and	d toxicological characteris	<u>stics</u>	
Inhalation	: No specific data.			
Ingestion	: No specific data.			
Skin contact	: No specific data.			
Eye contact	: Adverse symptoms pain or irritation watering redness	may include the following:		
Delayed and immediate e	effects as well as chror	nic effects from short and	long-term expos	ure
Short term exposure				
Potential immediate effects	: Not available.			
Potential delayed effects	: Not available.			
Long term exposure				
Potential immediate effects	: Not available.			
Potential delayed effects	: Not available.			
Potential chronic health	<u>effects</u>			
Conclusion/Summary	: Not available.			
General	: No known significa	nt effects or critical hazards		
Carcinogenicity	: No known significa	nt effects or critical hazards		
Mutagenicity	: No known significa	nt effects or critical hazards		
Reproductive toxicity	: No known significa	nt offecto en exitical homendo		

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Adverse symptoms may include the following: liver abnormalities Narcotic effect. May cause nervous system disturbances.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
ethanol	Acute EC50 3306 mg/l Marine water	Algae - <i>Ulva pertusa</i>	96 hours
	Acute EC50 1074 mg/l Fresh water	Crustaceans - Cypris	48 hours
		subglobosa	
	Acute EC50 2 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 11000000 µg/l Marine water	Fish - Alburnus alburnus	96 hours
	Chronic NOEC 4.995 mg/l Marine water	Algae - <i>Ulva pertusa</i>	96 hours
	Chronic NOEC 100 ul/L Fresh water	Daphnia - <i>Daphnia magna</i> -	21 days
		Neonate	
1,2-dichlorobenzene	Acute EC50 12.8 mg/l	Algae - Phaeodactylum	72 hours
		tricornutum	
	Acute EC50 0.74 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 4.52 ppm Marine water	Crustaceans - Americamysis	48 hours
		bahia	
	Acute LC50 1.4 mg/l Fresh water	Fish - Gibelion catla	96 hours
	Chronic NOEC 5 mg/l	Algae - Chlorella vulgaris	4 days
	Chronic NOEC 0.63 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	21 days
nitrobenzene	Acute EC50 9.95 ppm Marine water	Algae - Skeletonema costatum	72 hours
	Acute EC50 9.65 ppm Marine water	Algae - Skeletonema costatum	96 hours
	Acute LC50 5.86 ppm Marine water	Crustaceans - <i>Americamysis</i> bahia	48 hours
	Acute LC50 7.2 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 44.1 mg/l Fresh water	Fish - <i>Pimephales promelas</i> - Larvae	96 hours
	Chronic NOEC 9200 µg/l Fresh water	Algae - Chlorella pyrenoidosa	72 hours
	Chronic NOEC 2.6 mg/l Fresh water	Daphnia - Daphnia magna	21 days

12.2 Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
nitrobenzene	OECD 301F Ready Biodegradability - Manometric Respirometry Test		o - Readily - 28 days	100 mg/l		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
ethanol 1,2-dichlorobenzene nitrobenzene	- - -		- -		Readily Not rea Readily	dily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
ethanol	-0.35	0.5	Low
1,2-dichlorobenzene	3.38	150 to 230	Low
nitrobenzene	1.86	3.1 to 4.8	Low

12.4 Mobility in soil

Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

SECTION 12: Ecological information

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment met	hods
Product	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	: The classification of the product may meet the criteria for a hazardous waste.
Packaging	
Methods of disposal	 The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
SECTION 44. Trop	an art information

SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number or ID number	UN1170	UN1170	UN1170
14.2 UN proper shipping name	ETHANOL SOLUTION	ETHANOL SOLUTION	Ethanol solution
14.3 Transport hazard class(es)	3	3	3
14.4 Packing group	II	11	II
14.5 Environmental hazards	No.	No.	No.

Additional information

Remarks: De minimis quantities

ADR/RID	: Hazard identification number 33
	Limited quantity 1 L
	Special provisions 144, 601
	Tunnel code (D/E)
IMDG	: Emergency schedules F-E, S-D
	Special provisions 144

SECTION 14: Transport information		
 <u>Quantity limitation</u> Passenger and Cargo Aircraft: 5 L. Packaging instructions: 353. Cargo Aircraft Only: 60 L. Packaging instructions: 364. Limited Quantities - Passenger Aircraft: 1 L. Packaging instructions: Y341. <u>Special provisions</u> A3, A58, A180 		
: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.		
: Not available.		

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

Ingredient name	Intrinsic property			Date of revision
nitrobenzene	Toxic to reproduction	Candidate	ED/79/2015	12/17/2015

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

No listed substance

Label : Not applicable.

Other EU regulations

Ozone depleting substances (1005/2009/EU) Not listed.

Prior Informed Consent (PIC) (649/2012/EU) Not listed.

Persistent Organic Pollutants Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category

P5c

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

SECTION 15: Regulatory information

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals Not listed. **Inventory list Australia** : All components are listed or exempted. Canada : At least one component is not listed in DSL but all such components are listed in NDSL. China : Not determined. **Eurasian Economic** : Russian Federation inventory: All components are listed or exempted. Union Japan : Japan inventory (CSCL): All components are listed or exempted. Japan inventory (ISHL): All components are listed or exempted. **New Zealand** : All components are listed or exempted. : All components are listed or exempted. **Philippines Republic of Korea** : All components are listed or exempted. Taiwan : All components are listed or exempted. Thailand : Not determined. : Not determined. Turkey

- **United States** : All components are active or exempted.
- : All components are listed or exempted. Viet Nam

15.2 Chemical safety assessment

: This product contains substances for which Chemical Safety Assessments might still be required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	: ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.
	1272/2008] DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement
	PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification	
Eye Irrit. 2, H319	On basis of test data Calculation method Calculation method	

Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H360F	May damage fertility.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
Date of issue/Date of revision : 31/0	05/2024 Date of previous issue : No previous validation Version : 1 14/15

: 1

OQ - PV Headspace Sample			
SECTION 16: Other information			
H412 Harmful to aquatic life with long lasting effects.			
Full text of classifications [CLP/	GHS]		
Acute Tox. 3 Acute Tox. 4	ACUTE TOXICITY - Category 3		
Acute Tox. 4	ACUTE TOXICITY - Category 4		

Acute Tox. 4		ACUTE TOXICITY - Category 4
Aquatic Acute 1		SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1		LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 3		LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Carc. 2		CARCINOGENICITY - Category 2
Eye Irrit. 2		SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 2		FLAMMABLE LIQUIDS - Category 2
Repr. 1B		REPRODUCTIVE TOXICITY - Category 1B
Skin Irrit. 2		SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1B		SKIN SENSITISATION - Category 1B
STOT RE 1		SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1
STOT SE 3		SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE -
		Category 3
Date of issue/ Date of revision	: 31/05/2024	
Date of previous issue	: No previous validation	

Version

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