SAFETY DATA SHEET



OQ - PV Headspace Sample

Section 1. Identifica	ation
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1.1 Product identifier	
Product name	: 🗖Q - PV Headspace Sample
Part no.	: 5182-9733
Validation date	: 5/31/2024
1.2 Relevant identified uses of	<u>f the substance or mixture and uses advised against</u>
Identified uses	 Reagents and Standards for Analytical Chemistry Laboratory Use 1 ml
1.3 Details of the supplier of t	<u>he safety data sheet</u>
Supplier/Manufacturer	: Agilent Technologies, Inc. 5301 Stevens Creek Blvd Santa Clara, CA 95051, USA 800-227-9770

1.4 Emergency telephone numberIn case of emergency: CHEMTREC®: 1-800-424-9300

Section 2. Hazards identification

2.1 Classification of the substance or mixture

OSHA/HCS status	. This material is considered bezerdeus by the OSUA Uszerd Communication Standard
USHA/HUS status	: This material is considered hazardous by the OSHA Hazard Communication Standard
	(29 CFR 1910.1200).

Classification of the substance or mixture

H225	FLAMMABLE LIQUIDS - Category 2
H319	EYE IRRITATION - Category 2A
H351	CARCINOGENICITY - Category 2
H360	TOXIC TO REPRODUCTION - Category 1B
H412	AQUATIC HAZARD (LONG-TERM) - Category 3

2.2 GHS label elements

Hazard pictograms



Signal word Hazard statements	 Danger H225 - Highly flammable liquid and vapor. H319 - Causes serious eye irritation. H351 - Suspected of causing cancer. H360 - May damage fertility or the unborn child.
	H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements	
Prevention	 P201 - Obtain special instructions before use. P280 - Wear protective gloves, protective clothing and eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P241 - Use explosion-proof electrical, ventilating or lighting equipment. P242 - Use non-sparking tools. P243 - Take action to prevent static discharges.

Section 2. Hazards identification

Hazards not otherwise classified	: Prolonged or repeated contact may dry skin and cause irritation.
2.3 Other hazards	
Supplemental label elements	: Avoid contact with skin and clothing. Wash thoroughly after handling.
Disposal	 P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Storage	: P403 + P235 - Store in a well-ventilated place. Keep cool.
Response	 P308 + P313 - IF exposed or concerned: Get medical advice or attention. 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.
	P233 - Keep container tightly closed. P273 - Avoid release to the environment.

Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Ingredient name	%	CAS number
E thanol	≥90	64-17-5
1,2-Dichlorobenzene	≤0.3	95-50-1
nitrobenzene	≤0.3	98-95-3

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

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

Section 4. First aid measures

4.1 Description of necessar	<u>ry first aid measures</u>
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 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	: Wash skin thoroughly with soap and water or use recognized skin cleanser. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. 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. 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.

Section 4. First aid measures

4.2 Most important sympton	ns/effects, acute and delayed
Potential acute health effect	<u>zts</u>
Eye contact	: Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Defatting to the skin. May cause skin dryness and irritation.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/symp	utoms
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: irritation dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
4.3 Indication of immediate	medical attention and special treatment needed, if necessary
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting 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

Section 5. Fire-fighting measures

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Specific hazards arising from the chemical	: Highly flammable liquid and vapor. 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 vapor/gas is heavier than air and will spread along the ground. Vapors 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 thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide
5.3 Advice for firefighters	
Special protective actions 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.

Section 6. Accidental release measures

6.1 Personal precautions, pro	te	ctive 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 spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized 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 spilled 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 materials 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 7. Handling and storage

7.1 Precautions for safe handling

Protective measures
 Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor 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

Section 7. Handling and storage

	retain product residue and can be hazardous. 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	: 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. Store locked up. Eliminate all ignition sources. Separate from oxidizing 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

: Industrial applications, Professional applications.

Recommendations Industrial sector specific solutions

: Not available.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Ethanol	ACGIH TLV (United States, 1/2024). STEL: 1000 ppm 15 minutes. OSHA PEL 1989 (United States, 3/1989). TWA: 1000 ppm 8 hours. TWA: 1900 mg/m³ 8 hours. NIOSH REL (United States, 10/2020). TWA: 1000 ppm 10 hours. TWA: 1900 mg/m³ 10 hours. TWA: 1900 mg/m³ 10 hours. TWA: 1000 ppm 8 hours. TWA: 1900 mg/m³ 8 hours. TWA: 1000 ppm 8 hours.
1,2-Dichlorobenzene	ACGIH TLV (United States, 1/2024). TWA: 25 ppm 8 hours. TWA: 150 mg/m ³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 301 mg/m ³ 15 minutes. OSHA PEL 1989 (United States, 3/1989). CEIL: 50 ppm CEIL: 300 mg/m ³ NIOSH REL (United States, 10/2020). CEIL: 50 ppm CEIL: 300 mg/m ³ OSHA PEL (United States, 5/2018). CEIL: 50 ppm CEIL: 50 ppm CEIL: 300 mg/m ³ OSHA PEL (United States, 5/2018).
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Section 8. Exposure controls/personal protection

	Absorbed through skin.
	C: 50 ppm
	TWA: 150 mg/m ³ 8 hours.
	TWA: 25 ppm 8 hours.
nitrobenzene	ACGIH TLV (United States, 1/2024).
	Absorbed through skin.
	TWA: 1 ppm 8 hours.
	TWA: 5 mg/m ³ 8 hours.
	OSHA PEL 1989 (United States, 3/1989).
	Absorbed through skin.
	TWA: 1 ppm 8 hours.
	TWA: 5 mg/m ³ 8 hours.
	NIOSH REL (United States, 10/2020).
	Absorbed through skin.
	TWA: 1 ppm 10 hours.
	TWA: 5 mg/m ³ 10 hours.
	OSHA PEL (United States, 5/2018).
	Absorbed through skin.
	TWA: 1 ppm 8 hours.
	TWA: 5 mg/m ³ 8 hours.
	CAL OSHA PEL (United States, 5/2018).
	Absorbed through skin.
	TWA: 5 mg/m ³ 8 hours.
	TWA: 1 ppm 8 hours.

Biological exposure indices

Ingredient name	Exposure indices		
ntrobenzene	ACGIH BEI (United States, 1/2024) BEI: 1.5 % of hemoglobin [Semi-quantitative: The determinant is an indicator of exposure to the chemical, but the quantitative interpretation of the measurement is ambiguous. These determinants 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.], methemoglobin [in blood]. Sampling time: during or end of shift.		

8.2 Exposure controls	
Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
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.

Individual protection measures

Section 8. Exposure controls/personal protection

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Hygiene measures	 Wash hands, forearms and face thoroughly after handling chemical products, before 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 safety 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, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Skin protection	
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is 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 different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	Personal protective equipment for the body should be selected based on the task being 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 antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a 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.

Section 9. Physical and chemical properties and safety characteristics

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

	water	Soluble			
Solubility(ies)	: Media	Result			
Relative density	: Not available.				
Relative vapor density	: 1.7 [Air = 1]				
Vapor pressure	: 5.7 kPa (43 mm Hg)				
Lower and upper explosion limit/flammability limit	: Lower: 3.3% Upper: 19%				
Flammability	: Not applicable.				
Evaporation rate	: >4 (butyl acetate = 1)				
Flash point	: Open cup: 12.7°C (54.9°F)				
Boiling point, initial boiling point, and boiling range	: 78.3°C (172.9°F)				
Melting point/freezing point	: -117°C (-178.6°F)				
рН	: Not available.				
Odor threshold	: Not available.				
Odor	: Ethereal./Vinous.				
Color	: Colorless.				
Physical state	: Liquid. [Clear.]				
<u>Appearance</u>					

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Section 9. Physical and chemical properties and safety characteristics

Miscible with water	: Yes.
Partition coefficient: n- octanol/water	: Not applicable.
Auto-ignition temperature	: 422°C (791.6°F)
Decomposition temperature	: Not available.
Viscosity	: Not available.
Particle characteristics	
Median particle size	: Not applicable.

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 pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
10.5 Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials Reactive or incompatible with the following materials: acids and alkalis.
10.6 Hazardous	: Under normal conditions of storage and use, hazardous decomposition products should

decomposition products

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 Vapor	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 Vapor	Rat	556 ppm	4 hours
	LD50 Dermal	Rabbit	760 mg/kg	-
	LD50 Dermal	Rat	2100 mg/kg	-
	LD50 Oral	Rat	349 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Ethanol	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
	-			mg	
	Eyes - Moderate irritant	Rabbit	-	0.0666666667	-
				minutes 100	
				mg	
	Eyes - Moderate irritant	Rabbit	-	100 uL	-
1,2-Dichlorobenzene	Eyes - Mild irritant	Rabbit	-	0.5 minutes	-
				100 mg	
nitrobenzene	Eyes - Mild irritant	Rabbit	-	24 hours 500	-

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Section 11. Toxico	Skin - Mild			abbit	- mg mg	ours 500 -
Conclusion/Summary						
Skin	: Repeate	d exposure	e may caus	e skin drynes	s or cracking.	
<u>Sensitization</u>						
Not available.						
<u>Mutagenicity</u>						
Conclusion/Summary	: Not avail	able				
Carcinogenicity	. Not avair	abie.				
Conclusion/Summary	: Not avail	ahla				
<u>Classification</u>	. Not avair	abie.				
	00114		NTD			
Product/ingredient name	OSHA	IARC	NTP			
Ethanol 1,2-Dichlorobenzene	-	1 3	-			
nitrobenzene	-	2B	Reasona	bly anticipate	d to be a human c	arcinogen.
Reproductive toxicity						
Conclusion/Summary	: Not avail	able.				
Teratogenicity						
Conclusion/Summary	: Not avail	able.				
Specific target organ toxicity						
Name		·····,	(Category	Route of	Target organs
hamo				Jucegory	exposure	ruiget organo
1,2-Dichlorobenzene			0	Category 3	-	Respiratory tract
,				5 7 -		irritation
Specific target organ toxicity	y (repeated	exposure	<u>e)</u>			·
Name			(Category	Route of	Target organs
					exposure	
nitrobenzene			(Category 1	-	blood
Aspiration hazard						
Not available.						
formation on the literation		£	4: -:		whatation Error	
nformation on the likely outes of exposure	: Roules o	or entry and	licipated: O	rai, Dermai, I	nhalation, Eyes.	
otential acute health effects						
Eye contact	: Causes	sorious ov	e irritation			
Inhalation		-		r critical baza	urde	
Skin contact	: No known significant effects or critical hazards.					
	 Defatting to the skin. May cause skin dryness and irritation. No known significant effects or critical hazards. 					
Ingestion	. INO KNOW	n significa		n chucai naza	iius.	
ymptoms related to the phys	sical, chemi	ical and to	oxicologic	al characteri	<u>stics</u>	
Eye contact			-	de the followir		
	pain or ir		-			
	-					
Symptoms related to the phys	<mark>sical, chemi</mark> : Adverse	ical and to symptoms	<u>oxicologic</u>	al characteri	<u>stics</u>	

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Section 11. Toxicological information

Inhalation	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: irritation dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations

Delayed and immediate effec	<u>ts and also chronic effects from short and long term exposure</u>
<u>Short term exposure</u>	
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 effe	ects
General	: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
Carcinogenicity	: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: May damage fertility or the unborn child.

Numerical measures of toxicity

Acute toxicity estimates

	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
Ethanol	7000	N/A	N/A	124.7	N/A
1,2-Dichlorobenzene	500	N/A	N/A	11	8.15
nitrobenzene	100	760	N/A	2.8	N/A

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 subglobosa	48 hours
	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 - Ulva pertusa	96 hours
	Chronic NOEC 100 ul/L Fresh water	Daphnia - Daphnia magna -	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 - Daphnia magna	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 - Americamysis	48 hours
		bahia	
	Acute LC50 7.2 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 44.1 mg/l Fresh water	Fish - Pimephales promelas -	96 hours
		Larvae	
	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
nítrobenzene	OECD 301F Ready Biodegradability - Manometric Respirometry Test	50 to 60 %	- 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.
- **12.5 Other adverse effects** : No known significant effects or critical hazards.

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Section 13. Disposal considerations

13.1 Waste treatment methods

Disposal methods	: The generation of waste should be avoided or minimized 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 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. Vapor 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 spilled material and runoff and contact
	cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

Section 14. Transport information

DOT / TDG / Mexico / IMDG / : Not regulated. IATA

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Additi	onai	inform	ation

Remarks: De minimis quantities

Special precautions for user : 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.

Transport in bulk according		Not available.
to IMO instruments		

Section 15. Regulatory information

15.1 Safety, health and envir	onmental regulations/legislation specific for the substance or mixture
U.S. Federal regulations	 TSCA 8(a) PAIR: 1,2-Dichlorobenzene TSCA 8(a) CDR Exempt/Partial exemption: Not determined Clean Water Act (CWA) 307: 1,2-Dichlorobenzene; nitrobenzene Clean Water Act (CWA) 311: 1,2-Dichlorobenzene; nitrobenzene
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: Listed
Clean Air Act Section 602 Class I Substances	: Not listed

Section 15. Regulatory information

Clean Air Act Section 602 Class II Substances	:	Not listed
DEA List I Chemicals (Precursor Chemicals)	:	Not listed
DEA List II Chemicals (Essential Chemicals)	:	Not listed

SARA 302/304

Composition/information on ingredients

				SARA 302 TPQ		SARA 304 RQ	
Name		%	EHS	(lbs)	(gallons)	(lbs)	(gallons)
pitrobenzene		≤0.3	Yes.	10000	996.4	1000	99.6
SARA 304 RQ	: 394477.3 lbs /	179092.7 kg	•		-	•	

SARA 311/312

Classification

: FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A **CARCINOGENICITY - Category 2** TOXIC TO REPRODUCTION - Category 1B HNOC - Defatting irritant

Composition/information on ingredients

Name	%	Classification
E thanol	≥90	FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A HNOC - Defatting irritant
nitrobenzene	≤0.3	FLAMMABLE LIQUIDS - Category 4 ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 3 CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION - Category 1B SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	nitrobenzene	98-95-3	≤0.3
Supplier notification	nitrobenzene	98-95-3	≤0.3

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

- **Massachusetts**
- **New York**

- : The following components are listed: ETHYL ALCOHOL
- **New Jersey**
- : None of the components are listed.
- : The following components are listed: ETHYL ALCOHOL; NITROBENZENE
- Pennsylvania
- : The following components are listed: ETHANOL

California Prop. 65

MARNING: This product can expose you to Nitrobenzene, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Section 15. Regulatory information

Ingredient name	No significant risk level	Maximum acceptable dosage level
Nitrobenzene	-	-

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)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

<u>inventory nat</u>	
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.
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.
Philippines	: All components are listed or exempted.
Republic of Korea	: All components are listed or exempted.
Taiwan	: All components are listed or exempted.
Thailand	: Not determined.
Turkey	: Not determined.
United States	: All components are active or exempted.
Viet Nam	: All components are listed or exempted.

Section 16. Other information

Procedure used to derive the classification

Classification	Justification
FLAMMABLE LIQUIDS - Category 2	On basis of test data
EYE IRRITATION - Category 2A	Calculation method
CARCINOGENICITY - Category 2	Calculation method
TOXIC TO REPRODUCTION - Category 1B	Calculation method
AQUATIC HAZARD (LONG-TERM) - Category 3	Calculation method

History Date of issue/Date of

revision	
Date of previous issue	: 10/28/2021
Version	: 10

: 05/31/2024

Section 16. Other information

Key to abbreviations	: ATE = Acute Toxicity Estimate
-	BCF = Bioconcentration Factor
	GHS = Globally Harmonized System of Classification and Labelling of Chemicals
	IATA = International Air Transport Association
	IBC = Intermediate Bulk Container
	IMDG = International Maritime Dangerous Goods
	LogPow = logarithm of the octanol/water partition coefficient
	MARPOL = International Convention for the Prevention of Pollution From Ships, 1973
	as modified by the Protocol of 1978. ("Marpol" = marine pollution)
	N/A = Not available
	UN = United Nations

✓ Indicates information that has changed from previously issued version.

Notice to reader

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