

Safety Data Sheet M001114B5 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 05/02/2018 Version: 1.0

SECTION 1: Identification         1:1. Identification         Product form       I: Substance         Product form       I: Substance         Product form       I: Substance         Product cole       I: Moritination         I: Cole       I: Moritination<		
Product form       : Substance         Substance name       : Hydrogen Peroxide, 50%, aqueous solution         Product code       : Hydrogen peroxide (H2O2) / Hydrogen peroxide solution / HYDROGEN PEROXIDE / Hydrogen peroxide solution% / Aqueous solution in hydrogen encode solution	SECTION 1: Identification	
Subscince name       I: Hydrogen Peroxide, 50% sequeous solution         Product code       I: Mydrogen peroxide (H2O2) / Hydrogen peroxide solution / HYDROGEN PEROXIDE / Hydrogen peroxide solution / JWndrogen dioxide / Hydrogen peroxide solution % / Aqueous solution / JWndrogen dioxide / Hydrogen peroxide solution % / Aqueous solution / JWndrogen dioxide / Hydrogen peroxide solution % / Aqueous solution / JWndrogen dioxide / Hydrogen peroxide solution % / Aqueous solution / JWndrogen dioxide / Hydrogen peroxide solution % / Aqueous solution % / Aqueous solution / JWndrogen dioxide / Hydrogen peroxide solution % / Aqueous JWN / JWNdrogen dioxide / Hydrogen peroxide solution % / Aqueous JWN / JWNdrogen dioxide / Hydrogen peroxide solution % / Aqueous JWN / JWNdrogen dioxide / Hydrogen peroxide solution % / Aqueous JWN / JWN	1.1. Identification	
Product code::::Synonyms:::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::<	Product form	: Substance
Synonyms  Hydrogen peroxide (H2O2) / Hydrogen peroxide solution / HVDROGEN PEROXIDE / Hydrogen peroxide    Other means of identification  i EVDD0011333 <b>1.2. Relevant identification</b> i Laboratory chemicals multiplication and solution / HVDrogen peroxide solution% / Aqueous solution / HVDrogen peroxide <b>1.3. Details of the substance or mixture and uses advised against 2.4. Details of the substance solution / HVDrogen peroxide solution% / Aqueous Solution / HVDrogen peroxide (H2O2) 7.3. Details of the substance solution / HVDrogen peroxide solution% / Aqueous Solution / HVDrogen peroxide solution / HVDrogen peroxide solution% / Aqueous Solution / HVDrogen peroxide solutio</b>	Substance name	: Hydrogen Peroxide, 50% aqueous solution
be obtained by during the substance or mixture and uses advised against Use of the substance/mixture is the substance or mixture and uses advised against Use of the substance/mixture is the substance or substances Scientific research and development <b>1.3.</b> Details of the supplier of the safety data sheet SymCures Laboratories, Inc. PO. Box 309 Alachus, FL 32615 - United States of America T (386) 462-0708 - F (386) 462-7097 infordisymcures Laboratories, Inc. PO. Box 309 Alachus, FL 32615 - United States of America T (386) 462-0708 - F (386) 462-7097 infordisymcures Laboratories, Inc. PO. Box 309 Alachus, FL 32615 - United States of America T (386) 462-0708 - F (386) 462-7097 infordisymcures Laboratories, Inc. PO. Box 309 Alachus, FL 32615 - United States of America T (386) 462-0708 - F (386) 462-7097 infordisymcures Laboratories, Inc. PO. Box 309 <b>1.4.</b> Emergency telephone number Emergency number : (844) 523-4086 (3E Company - Account 10069) <b>SECETION 2:</b> Hazard(2) identification <b>21.1</b> Classification of the substance or mixture <b>Classification</b> (GHS-US) Ox. Lg. 1 H271 - May cause fire or explosion; strong oxidiser Auate Tox. 4 (Ora) H327 - Harmful if invalidwed Auate Tox.4 (Ora) H314 - Causes severe sinch burns and eye damage STOT 5E 3 H335 - May cause respiratory inflation Auate Tox.4 (Ora) H314 - Causes severe sinch burns and eye damage STOT 5E 3 H315 - Causes severe sinch burns and eye damage STOT 5E 3 H315 - Causes severe sinch burns and eye damage STOT 5E 3 H315 - Causes severe sinch burns and eye damage STOT 5E 3 H315 - Causes severe sinch burns and eye damage STOT 5E 3 H315 - Causes severe sinch burns and eye damage STOT 5E 3 H315 - Causes severe sinch burns and eye damage STOT 5E 3 H315 - Causes severe sinch burns and eye damage STOT 5E 3 H315 - Causes severe sinch burns and eye damage STOT 5E 3 - H315 - H217 - May cause fire or explosion; strong oxidizer H32-H318 - Causes severe sinch burns GHS-US Habeling Hazard pictograms (GHS-US) : E Danger H32-H314 - Ca	Product code	: M001-1-14B5
1.2. Relevant identified uses of the substance or muture and uses advised against         Use of the substance/mixture       : Laboratory chemicals Manufacture of substances Scientific research and development         3.3. Details of the supplier of the safety data sheet         SynCuest Laboratories, Inc. P O, Box 509         3.4. Energency tubeptone number         Emergency number         Classification of the substance or mixture         Classification (OHS-US)         X. Lip 1       H271 · May cause fire or explosion; strong oxidiser         Acute Tox. 4 (Oral)       H302 · Harmful if swallowed         Valuet Chronic 3       H412 · Harmful is output to induce the with long lasting effects         Strict Chronic 3       H412 · Harmful to aquate life with long lasting effects         Lut exit of H-phrases: see sections by damage       Gef SU         Strict Chronic 3       H412 · Harmful to aquate life with long lasting effects         Lut exit of H-phrases: see sections to the substance of the substance of explosion; strong oxidizer         Hazard bictograms (GHS-US)       : Ger SU         Signal word (GHS-US)       : Ger SU         Lut exit of H-phrases: see sections to the substance the with long lasting effects		peroxide, aqueous solution / Dihydrogen dioxide / Hydrogen peroxide solution% / Aqueous solution of hydrogen peroxide
Use of the substance/mixture       I: Laboratory chemicals Manufacture of substances Scientific research and development         1.3.       Details of the supplier of the safety data sheet         SynQuest Laboratomies, Inc. P.O. Box 309         Jackhus, FL 32615 - United States of America T(386) 462-0788 - F (386) 462-7097 info@synquestLabs.com - www.unquestLabs.com         1.4.       Emergency telephone number         Emergency number       : (844) 523-4086 (3E Company - Account 10069)         Statistication of the substance or miture         Classification of the substance or miture         Signal Koncer, A (Ora)       H271 · May cause fire or explosion; strong oxidiser         Acute Tox, 4 (Inhalationvapour)       H332 · Harmful if svallowed         Acute Tox, 4 (Inhalationvapour)       H332 · Harmful if svallowed         Aquatic Chronica + H473 · Harmful to aquatic life with long lasting effects         Full text of H-phrases: see section 16         22.       Label elements         CH5-US labeling	Other means of identification	: MFCD00011333
Manufacture of substances         Scientific research and development         1.3. Details of the supplier of the safety data sheet         SyrQuest Laboratories, Inc.         P.O. Box 309         Alachua, FL 32615 - United States of America         T (386) 462-7087         Index SyrQuestIabs.com - www.surquestIabs.com         1.4. Emergency telephone number         Emergency number       : (844) 523-4086 (3E Company - Account 10069)         SECTION 2: Hazard(s) identification         2.1. Classification of the substance or mixture         Classification (OHS-US)         Ox. Lip, 1       H271 - May cause fire or explosion; strong oxidiser         Acute Tox. 4 (Oral)       H302 - Harmful if swallowed         Acute Tox.4 (Oral)       H318 - Causes server skin burns and eye damage         Skin Corn. 1A       H314 - Causes server skin burns and eye damage         Stor 2.5 E 3       H335 - May cause respiratory irritation         Aquatic Acute 3       H412 - Harmful to aquatic life         Aquatic Chronic 3       H412 - Harmful to aquatic life         GHS-US Ibeding	1.2. Relevant identified uses of the subs	stance or mixture and uses advised against
SynCuset Laboratories, Inc. P.O. Box 309 Alacha, P. 132815 - United States of America T (386) 462-0783 - E (386) 462-078 - E (386) 462-07	Use of the substance/mixture	Manufacture of substances
Pio. Box 309 Alachua, FL 32815 - United States of America T (389) 462-0789. F (389) 462-7087 Info@synquestlabs.com - www.synquestlabs.com <b>1.4. Emergency</b> telephone number Emergency number : (844) 523-4086 (3E Company - Account 10069) <b>SECTION 2: Hazard(s) identification</b> <b>2.1. Classification of the substance or mixture</b> <b>Classification (GHS-US)</b> Ox. Liq. 1 H271 - May cause fire or explosion; strong oxidiser Acute Tox. 4 (Onal) H302 - Harmful if swallowed Acute Tox. 4 (Onal) H302 - Harmful if swallowed Acute Tox. 4 (Onal) H302 - Harmful if swallowed Acute Tox. 4 (Onal) H302 - Harmful if swallowed Skin Corr. 1A H314 - Causes servere skin burns and eve damage StOT SE 3 H335 - May cause respiratory irritation Aquatic Acute 3 H412 - Harmful to aquatic life Aquatic Chronic 3 H412 - Harmful to aquatic life <b>2.2. Label elements</b> <b>GHS-US labeling</b> Hazard pictograms (GHS-US) : Danger Hazard statements (GHS-US) : Danger Hazard statements (GHS-US) : Panger H32 - Harmful to aquatic life with long lasting effects Precautionary statements (GHS-US) : Panger H32 - Harmful to aquatic life with long lasting effects Precautionary statements (GHS-US) : Panger H32 - Harmful If swallowed or if inhaled H314 - Causes serves skin bours and eve damage H335 - May cause fire or explosion; strong oxidizer H302-H332 - Harmful If swallowed or if inhaled H314 - Causes serves skin bours and eve damage H335 - May cause fire or explosion; strong oxidizer H302-H332 - Harmful If swallowed or if inhaled H314 - Causes server skin bours and eve damage H335 - May cause respiratory irritation H412 + Harmful to aquatic life with long lasting effects Precautionary statements (GHS-US) : P201 - Kaep away from heat/sparks/open fiames/hot surfaces. No smoking P220 - Keep/Store away from heat/sparks/open fiames/hot surfaces. No smoking P220 - Keep/Store away from heat/sparks/open fiames/hot surfaces. No smoking P220 - Keep/Store away from heat/sparks/open fiames/hot surfaces. No smoking P220 - No erbethe fumes, mis, s	1.3. Details of the supplier of the safety	data sheet
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SECTION 2: Hazard(s) identification         2.1 Classification of the substance or mixture         Classification (GHS-US)         Ox, Liq, 1       H271 - May cause fire or explosion; strong oxidiser         Acute Tox, 4 (Oral)       H302 - Harmful if swallowed         Acute Tox, 4 (Inhalation:vapour)       H332 - Harmful if inhaled         Skin Corr. 1A       H314 - Causes server skin hums and eye damage         System       1         System       H314 - Causes server skin hums and eye damage         Storn 1       H318 - Causes server skin hums and eye damage         Storn 1       H314 - Causes server skin hums and eye damage         Storn 15       S         Aquatic Acute 3       H412 - Harmful to aquatic life         Aquatic Acute 3       H412 - Harmful to aquatic life         Aquatic Chronic 3       H412 - Harmful to aquatic life         Full text of H-phrases: see section 16       Image         2.2       Label elements         GHS-US labeling       Image         Hazard pictograms (GHS-US)       Image         Hazard statements (GHS-US)       Image         H221 - Mark Juze respiratory irritation       H412 - Harmful to aquatic life wallowed or if inhaled         H314 - Causes severe skin burns and eye damage       H335 - May cause respirato		· (844) 522 4086 (2E Compony Account 10060)
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Full text of H-phrases: see section 16         2.2.       Label elements         GHS-US labeling         Hazard pictograms (GHS-US)       :         Signal word (GHS-US)       :         Hazard statements (GHS-US)       :         Hazard statements (GHS-US)       :         Precautionary statements (GHS-US)       :         Precautionary statements (GHS-US)       :         Precautionary statements (GHS-US)       :         Precautionary statements (GHS-US)       :         P200 - Keep away from heat/sparks/open flames/hot surfaces. No smoking P220 - Keep/Store away from clothing'/combustibles/         P260 - Do not breathe fumes, mist, spray, vapors P264 - Wash skin thoroughly after handling P270 - Do not eat, drink or smoke when using this product P271 - Use only outdoors or in a well-ventilated area	Acute Tox. 4 (Oral)H302 - HamAcute Tox. 4 (Inhalation:vapour)H332 - HamSkin Corr. 1AH314 - CausEye Dam. 1H318 - CausSTOT SE 3H335 - MayAquatic Acute 3H402 - Ham	nful if swallowed nful if inhaled ses severe skin burns and eye damage ses serious eye damage cause respiratory irritation nful to aquatic life
2.2.       Label elements         GHS-US labeling       Hazard pictograms (GHS-US)         Hazard pictograms (GHS-US)       :         Signal word (GHS-US)       :         Hazard statements (GHS-US)       :         Hazard statements (GHS-US)       :         Precautionary statements (GHS-US)       :         P200 - Keep away from heat/sparks/open flames/hot surfaces. No smoking         P221 - Take ary precaution to avoid mixing with combustibles/         P200 - Do not breathe fumes, mist, spray, vapors         P264 - Wash skin thoroughly after handling         P271 - Use only outdoors or in a well-ventilated area	•	nful to aquatic life with long lasting effects
GHS-US labeling         Hazard pictograms (GHS-US)         :	Full text of H-phrases: see section 16	
Hazard pictograms (GHS-US):	2.2. Label elements	
Hazard pictograms (GHS-US):	GHS-US labeling	
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P220 - Keep/Store away from clothing//combustible materials P221 - Take any precaution to avoid mixing with combustibles/ P260 - Do not breathe fumes, mist, spray, vapors P264 - Wash skin thoroughly after handling P270 - Do not eat, drink or smoke when using this product P271 - Use only outdoors or in a well-ventilated area	Hazard statements (GHS-US)	H302+H332 - Harmful if swallowed or if inhaled H314 - Causes severe skin burns and eye damage H335 - May cause respiratory irritation
P280 - Wear protective gloves/protective clothing/eye protection/face protection P283 - Wear fire/flame resistant/retardant clothing	Precautionary statements (GHS-US)	<ul> <li>P220 - Keep/Store away from clothing//combustible materials</li> <li>P221 - Take any precaution to avoid mixing with combustibles/</li> <li>P260 - Do not breathe fumes, mist, spray, vapors</li> <li>P264 - Wash skin thoroughly after handling</li> <li>P270 - Do not eat, drink or smoke when using this product</li> <li>P271 - Use only outdoors or in a well-ventilated area</li> <li>P273 - Avoid release to the environment</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection</li> </ul>
05/13/2020         EN (English US)         SDS ID: M001114B5         Page 1	05/13/2020	EN (English US) SDS ID: M001114B5 Page 1

	P30 P303 skin P304 P305 lense P306 P310 P32 P330 P363 P363 P370 P377 remo P403 P405	1+P312 - If swallowed: Call a POISON Cl 1+P330+P331 - If swallowed: rinse mouth 3+P361+P353 - If on skin (or hair): Take of with water/shower 4+P340 - If inhaled: Remove person to fre 5+P351+P338 - If in eyes: Rinse cautious es, if present and easy to do. Continue rin 6+P360 - If on clothing: Rinse immediatel er before removing clothes 0 - Immediately call a POISON CENTER 1 - Specific treatment (see supplemental 1 0 - Rinse mouth 3 - Wash contaminated clothing before re 0+P378 - In case of fire: Use dry sand, dr 1+P380+P375 - In case of major fire and 0tely due to the risk of explosion 3+P233 - Store in a well-ventilated place. 5 - Store locked up 1 - Dispose of contents/container to an ap	<ul> <li>Do NOT induction</li> <li>Di NOT induction</li> <li>Di Martina de la constanta de la cons</li></ul>	e vomiting all contaminated clothing. Rinse comfortable for breathing several minutes. Remove contact clothing and skin with plenty of cian ons on this label) cohol-resistant foam to extinguish Evacuate area. Fight fire tightly closed
.3. Other hazards				
ther hazards not contributing to the lassification	: Sten	ich.		
.4. Unknown acute toxicity (GHS US)				
lot applicable				
ECTION 3: Composition/informatio	n <u>on i</u> r	ngredients		
.1. Substance				
ubstance type	: Mon	o-constituent		
Name		Product identifier	%	Classification (GHS-US)
Hydrogen Peroxide, 50% aqueous solution (Main constituent)			<= 50	Ox. Liq. 1, H271 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:vapour), H332 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 3, H402 Aquatic Chronic 3, H412
ull text of H-phrases: see section 16				
.2. Mixture				
lot applicable				
ECTION 4: First aid measures				
.1. Description of first aid measures				
irst-aid measures general	wher	ase of accident or if you feel unwell, seek re possible). Move the affected personnel	away from the o	contaminated area.
irst-aid measures after inhalation		nove person to fresh air and keep comfort iration. Get immediate medical advice/att		g. If not breathing, give artificial
irst-aid measures after skin contact		h with plenty of soap and water. Remove ical advice/attention.	contaminated c	lothing and shoes. Get immediate
irst-aid measures after eye contact		ediately flush eyes thoroughly with water ent and easy to do. Continue rinsing. Get		
	: Do N	NOT induce vomiting. Never give anything		
irst-aid measures after ingestion	mou	th out with water. Get immediate medical		•
irst-aid measures after ingestion 2. Most important symptoms and effect				
-	t <mark>s, both</mark> : The			
.2. Most important symptoms and effect	ts, both : The 2.2) : Mate	acute and delayed most important known symptoms and eff	ects are describe	ed in the labelling (see section

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.
5.2. Special hazards arising from the sub	stance or mixture
Explosion hazard	: Risk of explosion if heated under confinement. Use water spray or fog for cooling exposed containers.
Reactivity	: May cause fire or explosion; strong oxidizer.
5.3. Advice for firefighters	
Firefighting instructions	: In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.
Protection during firefighting	: Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".
<b>SECTION 6: Accidental release meas</b>	ures
6.1. Personal precautions, protective equ	ipment and emergency procedures
General measures	: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe gas, fumes, vapor or spray.
6.1.1. For non-emergency personnel	
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level.
6.2. Environmental precautions	
Avoid release to the environment. Notify authoritie	es if product enters sewers or public waters.
6.3. Methods and material for containmer	nt and cleaning up
For containment	: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.
Methods for cleaning up	: Take up large spills with pump or vacuum and finish with dry chemical absorbent. Use explosion-proof equipment. Take up small spills with dry chemical absorbent. Sweep or shovel spills into appropriate container for disposal. Ventilate area.
Other information	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe fumes, mist, spray, vapors. Wear personal protective equipment. Avoid contact with skin and eyes.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, including	g any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use.
Incompatible materials	: Refer to Section 10 on Incompatible Materials.
Storage temperature	: 2 - 8 °C Use explosion proof refrigerator
Storage area	: Store in dry, well-ventilated area. Light sensitive.

SECTION 8: Exposure controls/personal protection			
8.1. Control parameters			
Hydrogen Peroxide, 50% aqueous solution			
ACGIH TWA (ppm)	1 ppm		
Remark (ACGIH)	Eye, URT, & skin irr		
	eous solution ACGIH TWA (ppm)		

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Hydrogen Peroxide, 50% aqueous solution		
OSHA	OSHA PEL (TWA) (mg/m³)	1.4 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) (ppm)	1 ppm

8.2. Exposure controls		
Appropriate engineering controls	: Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.	
Hand protection	: Protective gloves. 29 CFR 1910.138: Hand Protection.	
Eye protection	: Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.	
Skin and body protection	: Wear suitable protective clothing.	
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.	
Other information	: Safety shoes. 29 CFR 1910.136: Foot Protection.	
SECTION 9: Physical and chemical properties		

SECTION 9: Physical and chemica	i properties
9.1. Information on basic physical and	d chemical properties
Physical state	: Liquid
Appearance	: Colorless liquid.
Color	: Colorless
Odor	: odorless
Odor threshold	: No data available
рН	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 114 °C
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Specific gravity / density	: 1.11 g/ml
Molecular mass	: 34.0147 g/mol
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

Other information 9.2.

No additional information available

SECTION 10: Stability and reactivity			
10.1.	Reactivity		
May cause fire or explosion; strong oxidizer.			
10.2.	Chemical stability		
The product is stable at normal handling and storage conditions.			
10.3.	Possibility of hazardous reactions		
No additional information available			

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## 10.4. Conditions to avoid

Keep away from heat, sparks and flame.

## 10.5. Incompatible materials

Brass. Copper. Nickel. Iron. Zinc. Powdered metals. Metallic salts. Reducing agents.

## 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of fire, see Section 5.

## **SECTION 11: Toxicological information**

11.1. Information on toxicological effects

## Acute toxicity

: Oral: Harmful if swallowed. Dermal: Not classified. Inhalation:vapour: Harmful if inhaled.

Hydrogen Peroxide, 50% aqueous solution	
LD50 oral rat	1518 mg/kg
LD50 dermal rabbit	9200 mg/kg
LC50 inhalation rat (mg/l)	2000 mg/m <sup>3</sup> (Exposure time: 4 h)
ATE US (oral)	1518.000 mg/kg body weight
ATE US (dermal)	9200.000 mg/kg body weight
ATE US (vapors)	11.000 mg/l/4h
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Hydrogen Peroxide, 50% aqueous solution	
IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea.

SECTION 12: Ecological information		
12.1. Toxicity		
Hydrogen Peroxide, 50% aqueous solution		
LC50 fish 1	16.4 mg/l (Exposure time: 96 h - Species: Pimephales promelas)	
EC50 Daphnia 1	18 - 32 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])	
LC50 fish 2	18 - 56 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])	

## 12.2. Persistence and degradability

No additional information available

12.3.	Bioaccumulative potential	
Hydrogen Peroxide, 50% aqueous solution		
BCF fish 1 (no bioaccumulation)		
12.4. Mobility in soil		
No additional information available		

#### 12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations			
13.1. Waste treatment methods			
Waste treatment methods Waste disposal recommendations	<ul> <li>Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.</li> <li>Dispose of contents/container in accordance with licensed collector's sorting instructions.</li> </ul>		
Additional information	: Recycle the material as far as possible.		
<b>SECTION 14: Transport information</b>			
Department of Transportation (DOT)			
In accordance with DOT			
Transport document description	: UN2014 Hydrogen peroxide, aqueous solutions (with more than 40 percent but not more than 60 percent hydrogen peroxide (stabilized as necessary)), 5.1, II		
UN-No.(DOT)	: UN2014		
Proper Shipping Name (DOT)	: Hydrogen peroxide, aqueous solutions		
	with more than 40 percent but not more than 60 percent hydrogen peroxide (stabilized as necessary)		
Transport hazard class(es) (DOT)	: 5.1 - Class 5.1 - Oxidizer 49 CFR 173.128		
Hazard labels (DOT)	: 5.1 - Oxidizer 8 - Corrosive		
Packing group (DOT)	: II - Medium Danger		
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 202		
DOT Packaging Bulk (49 CFR 173.xxx)	: 243		

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Proper Shipping Name (IMDG)	: HYDROGEN PEROXIDE, AQUEOUS SOLUTION	
Class (IMDG)	: 5.1 - Oxidizer	
Packing group (IMDG)	: II - substances presenting medium danger	
Air transport		
UN-No. (IATA)	: 2014	
Proper Shipping Name (IATA)	: Hydrogen peroxide, aqueous solution	
Class (IATA)	: 5.1 - Oxidizing Substances	
SECTION 15, Bogulatory infor		

SECTION 15: Regulatory information				
15.1. US Federal regulations				
Hydrogen Peroxide, 50% aqueous solution				
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on the United States SARA Section 302				
SARA Section 302 Threshold Planning Quantity (TPQ)	1000 lb (concentration >52%)			

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

## 15.2. International regulations

CANADA			
Hydrogen Peroxide, 50% aqueous solution			
Listed on the Canadian DSL (Domestic Sustances List)			
WHMIS Classification	Class C - Oxidizing Material Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class E - Corrosive Material		

#### **EU-Regulations**

No additional information available

# National regulations Hydrogen Peroxide, 50% aqueous solution Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Japanese ISHL (Industrial Safety and Health Law) Listed on the Korean ECL (Existing Chemicals List) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Japanese Poisonous and Deleterious Substances Control Law Listed on the Canadian IDL (Ingredient Disclosure List) Listed on Turkish inventory of chemical Listed on Turkish inventory of chemical Listed on the TCSI (Taiwan Chemical Substance Inventory)

15.3. US State regulations			
Hydrogen Peroxide, 50% aqueous solution			
State or local regulations	U.S Massachusetts - Right To Know List U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List U.S Pennsylvania - RTK (Right to Know) List		

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

## SECTION 16: Other information

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Full text of H-phrases:			
Acute Tox. 4 (Inhalation:vapour)		Acute toxicity (inhalation:vapour) Category 4	
Acute Tox. 4 (Oral)		Acute toxicity (oral) Category 4	
Aquatic Acute 3		Hazardous to the aquatic environment - Acute Hazard Category 3	
Aquatic Chronic 3		Hazardous to the aquatic environment - Chronic Hazard Category 3	
Eye Dam. 1		Serious eye damage/eye irritation Category 1	
Ox. Liq. 1		Oxidizing liquids Category 1	
Skin Corr. 1A		Skin corrosion/irritation Category 1A	
STOT SE 3		Specific target organ toxicity (single exposure) Category 3	
H271		May cause fire or explosion; strong oxidizer	
H302		Harmful if swallowed	
H314		Causes severe skin burns and eye damage	
H318		Causes serious eye damage	
H332		Harmful if inhaled	
H335		May cause respiratory irritation	
H402		Harmful to aquatic life	
H412		Harmful to aquatic life with long lasting effects	
NFPA health hazard	<ul> <li>3 - Short exposure could e residual injury even thoug given.</li> <li>0 - Materials that will not b</li> </ul>	Ih prompt medical attention was	
NFPA reactivity	<ul> <li>3 2 - Normally unstable and readily undergo violent decomposition but do not detonate. Also: may react violently with water or may form potentially explosive mixtures with water.</li> </ul>		
NFPA specific hazard	: OX - This denotes an oxidizer, a chemical which can greatly increase the rate of combustion/fire.		
HMIS III Rating			
Health	given	<ul> <li>3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given</li> <li>* - Chronic (long-term) health effects may result from repeated overexposure</li> </ul>	
Flammability	: 0 Minimal Hazard - Mate	: 0 Minimal Hazard - Materials that will not burn	
Physical	normal temperature and	: 2 Moderate Hazard - Materials that are unstable and may undergo violent chemical changes at normal temperature and pressure with low risk for explosion. Materials may react violently with water or form peroxides upon exposure to air.	

SDS US (GHS HazCom 2012)

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is offered solely for your consideration, investigation, and verification. It does not represent any guarantee of the properties of the product nor that the hazard precautions or procedures described are the only ones which exist. SynQuest shall not be held liable or any damage resulting from handling or from contact with the above product.