

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations SDS ID: 2107341

Issue date: 18.05.2021 Revision date: 18.12.2023 Version: 1.1

### **SECTION 1: Identification**

### 1.1. Identification

Product form : Mixture

Product name : Novec HFE-71DA Engineered Fluid

 CAS-No.
 : 185045-75-4

 Product code
 : 2107-3-41

 Formula
 : C14H14Cl2F18O3

 Other means of identification
 : MFCD28901298

### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Laboratory chemicals

Manufacture of substances

Scientific research and development

### 1.3. Supplier

SynQuest Laboratories, Inc. Inc.

P.O. Box 309

Alachua, FL, Alachua, 32615

United States of America

T (386) 462-0788 - F (386) 462-7097

info@synquestlabs.com - www.synquestlabs.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

### **GHS US classification**

Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2A

Specific target organ toxicity – Single exposure, Category 3, Narcosis

Specific target organ toxicity – Single exposure, Category 3, Narcosis

Specific target organ toxicity – Single exposure, Category 3, Narcosis

H335

May cause drowsiness or dizziness

May cause respiratory irritation

Respiratory tract irritation

Full text of H statements : see section 16

### 2.2. GHS Label elements, including precautionary statements

### **GHS US labeling**

Hazard pictograms (GHS US)



Signal word (GHS US) : Warning

Hazard statements (GHS US) : H315 - Causes skin irritation

H319 - Causes serious eye irritation H335 - May cause respiratory irritation H336 - May cause drowsiness or dizziness

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Precautionary statements (GHS US)

: P261 - Avoid breathing fumes, mist, spray, vapors.

P264 - Wash skin thoroughly after handling

P271 - Use only outdoors or in a well-ventilated area.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 - If on skin: Wash with plenty of soap and water

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P312 - Call a POISON CENTER or doctor/physician if you feel unwell

P321 - Specific treatment (see supplemental first aid instructions on this label)

P332+P313 - If skin irritation occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P405 - Store locked up.

P501 - Dispose of contents/container to an approved waste disposal plant

### 2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

No additional information available

### **SECTION 3: Composition/Information on ingredients**

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	GHS US classification
trans-1,2-Dichloroethylene	CAS-No.: 156-60-5	44 – 46	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:vapour), H332 Aquatic Acute 3, H402 Aquatic Chronic 3, H412
Methoxyperfluoro-n-butane	CAS-No.: 163702-07- 6	26 – 38	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H336 STOT SE 3, H335
Methoxyperfluoro-iso-butane	CAS-No.: 163702-08- 7	15 – 27	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H336 STOT SE 3, H335
Ethanol	CAS-No.: 64-17-5	2,4 – 3	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 Carc. 1A, H350 Aquatic Acute 2, H401
Isopropyl alcohol	CAS-No.: 67-63-0	0,1 – 0,14	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Eye Irrit. 2A, H319 STOT SE 3, H336

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Full text of hazard classes and H-statements : see section 16

### **SECTION 4: First-aid measures**

### 4.1. Description of first aid measures

First-aid measures general : In case of accident or if you feel unwell, seek medical advice immediately (show the label where

possible). Move the affected personnel away from the contaminated area.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial

respiration. Get medical advice/attention.

First-aid measures after skin contact : Wash with plenty of soap and water. Get medical advice/attention.

First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical advice/attention.

First-aid measures after ingestion : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth

out with water. Get medical advice/attention.

### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects : The most important known symptoms and effects are described in the labelling (see section 2.2)

and/or in section 11.

Symptoms/effects after inhalation : May cause drowsiness or dizziness.

### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

### **SECTION 5: Fire-fighting measures**

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media

appropriate for surrounding fire.

### 5.2. Specific hazards arising from the chemical

Fire hazard : Thermal decomposition generates: Carbon oxides. Hydrogen fluoride.

Explosion hazard : Risk of explosion if heated under confinement. Use water spray or fog for cooling exposed

containers.

### 5.3. Special protective equipment and precautions for fire-fighters

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".

### **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment 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".

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level.

### 6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

### 6.3. Methods and material for containment 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.

: Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground

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 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 area : Store in dry, cool, well-ventilated area.

### **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

### Novec HFE-71DA Engineered Fluid (185045-75-4)

No additional information available

### trans-1,2-Dichloroethylene (156-60-5)

No additional information available

### Methoxyperfluoro-n-butane (163702-07-6)

### **USA - AIHA - Occupational Exposure Limits**

WEEL TWA [ppm] 750 ppm (eye irritation)

### Methoxyperfluoro-iso-butane (163702-08-7)

### **USA - AIHA - Occupational Exposure Limits**

WEEL TWA [ppm] 750 ppm (eye irritation)

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Ethanol (64-17-5)			
USA - ACGIH - Occupational Exposure Limits			
Local name	Ethanol		
ACGIH OEL STEL [ppm]	1000 ppm		
Remark (ACGIH)	URT irr		
ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans		
USA - OSHA - Occupational Exposure Limits			
Local name	Ethyl alcohol (Ethanol)		
OSHA PEL TWA [1]	1900 mg/m³		
OSHA PEL TWA [2]	1000 ppm		
USA - IDLH - Occupational Exposure Limits			
IDLH [ppm]	3300 ppm (10% LEL)		
USA - NIOSH - Occupational Exposure Limits			
NIOSH REL TWA	1900 mg/m³		
NIOSH REL TWA [ppm]	1000 ppm		
Isopropyl alcohol (67-63-0)			
USA - ACGIH - Occupational Exposure Limits			
Local name	2-Propanol		
ACGIH OEL TWA [ppm]	200 ppm		
ACGIH OEL STEL [ppm]	400 ppm		
Remark (ACGIH)	Eye & URT irr; CNS impair		
ACGIH chemical category	Not Classifiable as a Human Carcinogen		
USA - ACGIH - Biological Exposure Indices			
BEI	40 mg/l (Medium: urine - Time: end of shift at end of workweek - Parameter: Acetone (background, nonspecific)		
USA - OSHA - Occupational Exposure Limits			
Local name	Isopropyl alcohol		
OSHA PEL TWA [1]	980 mg/m³		
OSHA PEL TWA [2]	400 ppm		
USA - IDLH - Occupational Exposure Limits	USA - IDLH - Occupational Exposure Limits		
IDLH [ppm]	2000 ppm (10% LEL)		
USA - NIOSH - Occupational Exposure Limits			
NIOSH REL TWA	980 mg/m³		
NIOSH REL TWA [ppm]	400 ppm		
NIOSH REL STEL	1225 mg/m³		
NIOSH REL STEL [ppm]	500 ppm		

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### 8.2. Appropriate engineering 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.

### 8.3. Individual protection measures/Personal protective equipment

### 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

### Personal protective equipment symbol(s):









### Other information:

Decomposition temperature

Safety shoes. 29 CFR 1910.136: Foot Protection.

### **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Color : Mixture contains one or more component(s) which have the following colour(s):

Colorless Clear

Odor : There may be no odour warning properties, odour is subjective and inadequate to warn of

overexposure.

: No data available

Mixture contains one or more component(s) which have the following odour:

alcohol-like

Odor threshold : No data available pH : No data available

Melting point : -29 °C

Freezing point : No data available

Boiling point : 40 °C

Flash point : No data available Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) : No data available Vapor pressure 413 mm Hg (@ 25 °C) Relative vapor density at 20 °C No data available Relative density No data available Density 1,33 g/ml (@ 20 °C) Molecular mass 643,136 g/mol Solubility No data available Partition coefficient n-octanol/water (Log Pow) No data available Auto-ignition temperature No data available

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Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosion limits : No data available
Explosive properties : No data available
Oxidizing properties : No data available

### 9.2. Other information

No additional information available

### **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

The product is stable at normal handling and storage conditions.

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

Keep away from heat, sparks and flame.

### 10.5. Incompatible materials

Strong bases. Strong oxidizing 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) : Not classified Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) : Not classified

# Ethanol (64-17-5) LD50 oral rat 7060 mg/kg LC50 Inhalation - Rat 124,7 mg/l/4h ATE US (oral) 7060 mg/kg body weight ATE US (vapors) 124,7 mg/l/4h ATE US (dust, mist) 124,7 mg/l/4h Isopropyl alcohol (67-63-0)

Isopropyl alcohol (67-63-0)	
LD50 oral rat	1870 mg/kg
LD50 dermal rabbit	4059 mg/kg
LC50 Inhalation - Rat	72600 mg/m³ (Exposure time: 4 h)

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Isopropyl alcohol (67-63-0) ATE US (oral)	1870 mg/kg body weight
· · ·	
ATE US (dermal)	4059 mg/kg body weight
Skin corrosion/irritation :	Causes skin irritation.
Serious eye damage/irritation :	Causes serious eye irritation.
Respiratory or skin sensitization :	Not classified
Germ cell mutagenicity :	Not classified
Carcinogenicity :	Not classified
Ethanol (64-17-5)	
IARC group	1 - Carcinogenic to humans
In OSHA Hazard Communication Carcinogen list	Yes
Isopropyl alcohol (67-63-0)	
IARC group	3 - Not classifiable
Reproductive toxicity :	Not classified
STOT-single exposure :	May cause drowsiness or dizziness. May cause respiratory irritation.
Methoxyperfluoro-n-butane (163702-07-6)	
STOT-single exposure	May cause drowsiness or dizziness. May cause respiratory irritation.
Methoxyperfluoro-iso-butane (163702-08-7)	
STOT-single exposure	May cause drowsiness or dizziness. May cause respiratory irritation.
Isopropyl alcohol (67-63-0)	
STOT-single exposure	May cause drowsiness or dizziness.
STOT-repeated exposure :	Not classified
Aspiration hazard :	Not classified
Viscosity, kinematic :	No data available
· .	The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.
Symptoms/effects after inhalation :	May cause drowsiness or dizziness.

# SECTION 12: Ecological information

### 12.1. Toxicity

Ethanol (64-17-5)		
LC50 - Fish [1]	12 – 16 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])	
EC50 - Crustacea [1]	9268 – 14221 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
LC50 - Fish [2]	> 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])	
EC50 - Crustacea [2]	2 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])	
Isopropyl alcohol (67-63-0)		
LC50 - Fish [1]	9640 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])	
EC50 - Crustacea [1]	13299 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
LC50 - Fish [2]	11130 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])	
EC50 72h - Algae [1]	> 1000 mg/l (Species: Desmodesmus subspicatus)	

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Isopropyl alcohol (67-63-0)	
EC50 96h - Algae [1]	> 1000 mg/l (Species: Desmodesmus subspicatus)

### 12.2. Persistence and degradability

Novec HFE-71DA Engineered Fluid (185045-75-4)		
Persistence and degradability	Not readily biodegradable. May cause long-term adverse effects in the environment. PBT - Persistent, Bioaccumulative and Toxic.	
Methoxyperfluoro-n-butane (163702-07-6)		
Persistence and degradability	Not readily biodegradable. May cause long-term adverse effects in the environment. PBT - Persistent, Bioaccumulative and Toxic.	
Methoxyperfluoro-iso-butane (163702-08-7)		
Persistence and degradability	Not readily biodegradable. May cause long-term adverse effects in the environment. PBT - Persistent, Bioaccumulative and Toxic.	

### 12.3. Bioaccumulative potential

Novec HFE-71DA Engineered Fluid (185045-75-4)	
Bioaccumulative potential	Perfluorinated alkanes (PFAs, "forever chemicals") are long lasting, widely used chemicals that break down slowly over time. The potential hazards of PFAs are under investigation and have not been established.
Methoxyperfluoro-n-butane (163702-07-6)	
Bioaccumulative potential	Perfluorinated alkanes (PFAs, "forever chemicals") are long lasting, widely used chemicals that break down slowly over time. The potential hazards of PFAs are under investigation and have not been established.
Methoxyperfluoro-iso-butane (163702-08-7)	
Bioaccumulative potential	Perfluorinated alkanes (PFAs, "forever chemicals") are long lasting, widely used chemicals that break down slowly over time. The potential hazards of PFAs are under investigation and have not been established.
Ethanol (64-17-5)	
Partition coefficient n-octanol/water (Log Pow)	-0,32
Isopropyl alcohol (67-63-0)	
Partition coefficient n-octanol/water (Log Pow)	0,05 (at 25 °C)

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

No additional information available

### **SECTION 13: Disposal considerations**

### 13.1. Disposal methods

Waste treatment methods : Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.

Sewage disposal recommendations : See the EPA's Interim Guidance on PFAS Destruction and Disposal.

Product/Packaging disposal recommendations : Dispose of contents/container in accordance with licensed collector's sorting instructions.

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Additional information

: Recycle the material as far as possible.

Ecology - waste materials

: This material is considered to be a "Forever chemical". Prevent any possible release to the environment. Do not discharge into drains. Take all necessary measures to prevent accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems, or emergency response.

### **SECTION 14: Transport information**

### 14.1. UN number

Not regulated for transport

### 14.2. UN proper shipping name

Proper Shipping Name (DOT) : Not applicable
Proper Shipping Name (TDG) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable

### 14.3. Transport hazard class(es)

**DOT** 

Transport hazard class(es) (DOT) : Not applicable

**TDG** 

Transport hazard class(es) (TDG) : Not applicable

**IMDG** 

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

### 14.4. Packing group

Packing group (DOT) : Not applicable
Packing group (TDG) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable

### 14.5. Environmental hazards

Other information : No supplementary information available.

### 14.6. Special precautions for user

DOT

No data available

TDG

No data available

**IMDG** 

No data available

IATA

No data available

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### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

### **SECTION 15: Regulatory information**

### 15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for:

trans-1,2-Dichloroethylene CAS-No. 156-60-5 44 – 46%

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Isopropyl alcohol CAS-No. 67-63-0 0,1 – 0,14%

### 15.2. International regulations

### **CANADA**

### Methoxyperfluoro-n-butane (163702-07-6)

Listed on the Canadian DSL (Domestic Substances List)

### Methoxyperfluoro-iso-butane (163702-08-7)

Listed on the Canadian DSL (Domestic Substances List)

### Ethanol (64-17-5)

Listed on the Canadian DSL (Domestic Substances List)

### Isopropyl alcohol (67-63-0)

Listed on the Canadian DSL (Domestic Substances List)

### **EU-Regulations**

### Ethanol (64-17-5)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

### Isopropyl alcohol (67-63-0)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

### National regulations

### Methoxyperfluoro-n-butane (163702-07-6)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

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 NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

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### **Methoxyperfluoro-iso-butane (163702-08-7)**

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

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 NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

### Ethanol (64-17-5)

Listed on IARC (International Agency for Research on Cancer)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

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 KECL/KECI (Korean Existing Chemicals Inventory)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on CICR (Turkish Inventory and Control of Chemicals)

### Isopropyl alcohol (67-63-0)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

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 KECL/KECI (Korean Existing Chemicals Inventory)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on CICR (Turkish Inventory and Control of Chemicals)

### 15.3. US State regulations



This product can expose you to Ethanol, 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.

Component	State or local regulations
Ethanol(64-17-5)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
Isopropyl alcohol(67-63-0)	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

### **SECTION 16: Other information**

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Full text of H-phra	Full text of H-phrases	
H225	Highly flammable liquid and vapor	
H302	Harmful if swallowed	

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Full text of I	Full text of H-phrases	
H315	Causes skin irritation	
H319	Causes serious eye irritation	
H332	Harmful if inhaled	
H335	May cause respiratory irritation	
H336	May cause drowsiness or dizziness	
H350	May cause cancer	
H401	Toxic to aquatic life	
H402	Harmful to aquatic life	
H412	Harmful to aquatic life with long lasting effects	

NFPA health hazard

: 3 - Materials that, under emergency conditions, can cause serious or

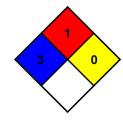
permanent injury.

NFPA fire hazard NFPA reactivity

: 1 - Materials that must be preheated before ignition can occur.

: 0 - Material that in themselves are normally stable, even under fire

conditions.



Hazard Rating

Health

Flammability

Physical

Safety Data Sheet (SDS), USA

: 2 Moderate Hazard - Temporary or minor injury may occur

: 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids,

solids and semi solids having a flash point above 200 F. (Class IIIB)

: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

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