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OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2024 and GHS Rev

Date of issue: 09/16/2025 Revised on 09/16/2025

1 Identification

· Product Identifier

· Trade Name: FluoSolv 72DA

Relevant identified uses of the substance or mixture and uses advised against:

· Product Description:

For industrial use only. See limitations on use for supplemental information on intended applications including medical device applications. Cleaning and Coating Solvent.

Details of the Supplier of the Safety Data Sheet:

Manufacturer/Supplier:

NuGeneration Technologies, LLC (dba NuGenTec)

1155 Park Ave. Emeryville, CA 94608

fluosolv@nugentec.com

For Product Info call 1-(800) 409-3142

www.fluosolv.com

www.nugentec.com/fluosolv

Emergency telephone number:

PERS Emergency Response: US and Canada - 1-800-633-8253, International 1-801-629-0667

2 Hazard(s) Identification

· Classification of the substance or mixture:



Specific target organ toxicity (single exposure) 3 H336 May cause drowsiness or dizziness.

Eye irritation 2B

H320 Causes eye irritation.

- · Label elements:
- · Hazard pictograms:



· Signal word: Warning

· Hazard-determining components of labeling:

Isopropanol

· Hazard statements:

H320 Causes eye irritation.

H336 May cause drowsiness or dizziness.

· Precautionary statements:

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 Wash thoroughly after handling.

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

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/doctor if you feel unwell.

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P337+P313 If eye irritation persists: Get medical advice/attention.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

· Unknown acute toxicity:

This value refers to knowledge of known, established toxicological or ecotoxicological values. 20 % of the mixture consists of component(s) of unknown toxicity.

- Information pertaining to particular dangers for man and environment:
- · Classification system: NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme
- NFPA ratings (scale 0 4)



Health = 3 Fire = 1 Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = 2

Fire = 1

REACTIVITY 0

Physical Hazard = 0

· Hazard(s) not otherwise classified (HNOC): None known

3 Composition/Information on Ingredients

- · Chemical characterization: Substance
- · Description:

Mixture of substances listed with non-hazardous additions and/or components that are less than listing threshold. All non-hazardous, components listed under threshold, and listed component total 100%.

· Dangerous Compon	ents:	
CAS: 156-60-5	trans-dichloroethylene	66-70%
RTECS: KV 9400000	♦ Flammable liquids 2, H225; ♦ Acute toxicity - inhalation 4, H332	
CAS: 67-63-0	Isopropanol	1-3%
RTECS: NT 8050000	♦ Flammable liquids 2, H225; ♦ Eye irritation 2A, H319; Specific target organ toxicity (single exposure) 3, H336	

Additional information:

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

4 First-Aid Measures

- · Description of first aid measures
- · General information: If symptoms persist, call a physician.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.

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· After skin contact:

Wash with soap and water.

If skin irritation occurs, consult a doctor.

· After eve contact:

Rinse opened eye for several minutes under running water.

If easy to do so, remove contact lenses if worn.

If eye irritation occurs, consult a doctor.

· After swallowing:

Rinse mouth with water.

If swallowed and symptoms occur, consult a doctor.

· Most important symptoms and effects, both acute and delayed:

Central nervous system depression (headache, dizziness, drowsiness, incoordination, nausea, slurred speech, giddiness, and unconsciousness).

Indication of any immediate medical attention and special treatment needed:

Treat symptomatically.

5 Fire-Fighting Measures

- · Extinguishing media
- · Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · Special hazards arising from the substance or mixture:

Carbon monoxide, Carbon dioxide, During Combustion, During Combustion, Hydrogen Fluoride During Combustion

- Advice for firefighters
- · Special protective equipment for firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

6 Accidental Release Measures

· Personal precautions, protective equipment and emergency procedures:

Keep away from sparks, flames, and extreme heat. Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).

Dispose of contaminated material as waste according to section 13.

Ensure adequate ventilation.

Dispose of the collected material according to regulations.

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Trade Name: FluoSolv 72DA

PAC-1:			
156-60-5	trans-dichloroethylene	280 ppm	
163702-07-6	Methyl nonafluorobutyl ether	2,500 ppn	
163702-08-7	Methyl nonafluoroisobutyl ether	2,500 ppn	
67-63-0	-63-0 Isopropanol		
PAC-2:			
156-60-5	trans-dichloroethylene	1,000 ppm	
163702-07-6	Methyl nonafluorobutyl ether	8,200 ppm	
163702-08-7	63702-08-7 Methyl nonafluoroisobutyl ether		
67-63-0 Isopropanol		2000* ppn	
PAC-3:			
156-60-5	trans-dichloroethylene	1,700 ppm	
163702-07-6	Methyl nonafluorobutyl ether	15,000 ppm	
163702-08-7	Methyl nonafluoroisobutyl ether	15,000 ppm	
67-63-0	Isopropanol	12000** ppm	

· Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and Storage

· Precautions for safe handling:

Contents may be under pressure, open carefully. For industrial/occupational use only. Not for consumer sale or use. Store work clothes separately from other clothing, food and tobacco products. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) No smoking: Smoking while using this product can result in contamination of the tobacco and/or smoke and lead to the formation of hazardous decomposition products. Keep away from sparks, flames, and extreme heat.

- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage
- · Requirements to be met by storerooms and receptacles:

Store in a well-ventilated place. Keep container tightly closed. Store away from heat. Store at temperatures not exceeding 38°C/100°F Store away from strong bases. Store away from oxidizing agents.

- Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep receptacle tightly sealed.
- · Specific end use(s): No further relevant information available.

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8 Exposure Controls/Personal Protection

· Control parameters:

· Components with	occupational ex	posure limits:
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156-60-5 trans-dichloroethylene

PEL Long-term value: 790 mg/m³, 200 ppm REL Long-term value: 790 mg/m³, 200 ppm

TLV Long-term value: 200 ppm

163702-05-4 Ethyl nonafluorobutyl ether

TWA 200 ppm (as total isomer; manufacturer determined)

163702-06-5 Ethyl nonafluoroisobutyl ether

TWA 200 ppm (as total isomers; manufacturer determined

163702-07-6 Methyl nonafluorobutyl ether

TWA 750 ppm (AIHA)

163702-08-7 Methyl nonafluoroisobutyl ether

TWA 750 ppm (AIHA)

67-63-0 Isopropanol

PEL Long-term value: 980 mg/m³, 400 ppm REL Short-term value: 1225 mg/m³, 500 ppm Long-term value: 980 mg/m³, 400 ppm

LV Short-term value: 400 ppm Long-term value: 200 ppm

BEI, A4

· Ingredients with biological limit values:

67-63-0 Isopropanol

BEI 40 mg/L

urine

end of shift at end of workweek

Acetone (background, nonspecific)

- · Additional information: The lists that were valid during the creation of this SDS were used as basis.
- · Exposure controls:
- · Appropriate engineering controls No further data; see section 7.
- · Personal protective equipment
- · General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Chemical protective gloves are not required under normal use conditions. However, when the product is subjected to extreme heat, HF may be formed. For those cases, neoprene gloves and apron are recommended.

· Breathing equipment:

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure

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assessment, select from the following respirator type(s) to reduce inhalation exposure: Half facepiece or full facepiece air-purifying respirator suitable for organic vapors Organic vapor respirators may have short service life.

· Protection of hands:



Protective gloves

- · Material of gloves: Neoprene.
- · Penetration time of glove material: Not applicable.
- · Eye protection:



Tightly sealed goggles

· Limitation and supervision of exposure into the environment: None

9 Physical and Chemical Properties

- · Information on basic physical and chemical properties
- · General Information

Physical stateColor:ColorlessOdor:Slight

Odor threshold:
 Melting point/Melting range:
 Boiling point/Boiling range:
 Flammability:
 Not determined.
 45 °C (113 °F)
 Not applicable.

· Explosion limits:

 Lower:
 5.9 Vol %

 Upper:
 14.5 Vol %

 Flash point:
 None

Auto igniting:
 Decomposition temperature:
 pH-value:
 408 °C (766.4 °F)
 Not determined.
 Not determined.

· Viscosity:

· Kinematic @ 20 °C (68 °F): 0.4 cps

Dynamic: Not determined.

· Solubility in / Miscibility with:

Water: <10 %

· Partition coefficient (n-octanol/water): Not determined. · Vapor pressure @ 25 °C (77 °F): 360 mmHg

Vapor pressure:

· **Density @ 20 °C (68 °F):** 1.27 g/cm³ (10.5982 lbs/gal)

· Relative density: Not determined.

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FluoSolv

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Trade Name: FluoSolv 72DA

· Vapor density @ 25 °C (77 °F): 2.26

· Particle characteristics Not applicable.

· Other information:

· Appearance:

· Form: Liquid

· Important information on protection of health

and environment, and on safety.

Ignition temperature: 408 °C (766.4 °F)

• Danger of explosion: Product does not present an explosion hazard.

· Solvent content:

· VOC content: 889 g/L

· Change in condition

· Evaporation rate: Not determined.

10 Stability and Reactivity

- · Reactivity: No further relevant information available.
- · Chemical stability: Product is stable under normal conditions.
- Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- Possibility of hazardous reactions: No dangerous reactions known.
- Conditions to avoid:

Heat

Sparks and/or flames

· Incompatible materials:

Strong bases

Strong oxidizing agents

· Hazardous decomposition products:

Carbon monoxide, Carbon dioxide, Hydrogen Chloride, Hydrogen Fluoride, Perfluoroisobutylene (PFIB), Toxic Vapor, Gas, Particulate

11 Toxicological Information

- · Information on toxicological effects:
- · Acute toxicity:

•	LD/LC50 values that are relevant for classification:
	156-60-5 trans-dichloroethylene

 Oral
 LD50
 7,902 mg/kg (Rat)

 Dermal
 LD50
 >5,000 mg/kg (rabbit)

 Inhalative
 LC50/4 h
 95.4 mg/l (Rat)

LC50/96 hours 27.2 mg/l (Cyprinodon variegatus (minnow))

LC50/48 hrs 79 mg/l (Daphnia)

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	propanol		
Oral	LD50	5,045 mg/kg (Rat)	
Dermal	LD50	12,800 mg/kg (rabbit)	
Inhalative	LC50/4 h	30 mg/l (Rat)	
	LC50/96 hours	9,640 mg/l (Pimephales)	
163702-06	-5 Ethyl nonaf	luoroisobutyl ether	
Oral	LD50	2,000-5,000 mg/kg (not defined)	
Dermal	LD50	>2,000 mg/kg (Rat)	
Inhalative	LC50/4 h	>989 mg/l (Rat)	
163702-05	-4 Ethyl nonaf	luorobutyl ether	
Oral	LD50	>2,000 mg/kg (Rat)	
Dermal	LD50	2,000-5,000 mg/kg (not defined)	
Inhalative	LC50/4 h	>989 mg/l (Rat)	
163702-08	-7 Methyl nona	afluoroisobutyl ether	
Oral	LD50 Oral	>5,000 ml/kg (Rat)	
Dermal	LD50	>5,000 mg/kg (not defined)	
Inhalative	LC50/4 h	>1,000 mg/l (Rat)	
163702-07	-6 Methyl nona	afluorobutyl ether	
Oral	LD50 Oral	-	
Dermal	LD50	>5,000 mg/kg (not defined)	
Inhalative	LC50/4 h	>1,000 mg/l (Rat)	
Primary iri	ritant effect:		
On the ski	n:		
163702-06	-5 Ethyl nonaf	luoroisobutyl ether	
Irritation of	skin Skin Irrita	tion (rabbit)	
		No significant irritation	
163702-05	-4 Ethyl nonaf	luorobutyl ether	
Irritation of	skin Skin Irrita		
		No significant irritation	
	-	afluoroisobutyl ether	
Irritation of	skin Skin Irrita	ntion (rabbit) No significant irritation	
On the eye Irritating eff			
163702-06	-5 Ethyl nonaf	luoroisobutyl ether	
Irritation of	eyes Eye Irrita		
		No significant irritation	







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Trade Name: FluoSolv 72DA

103/02-03-4	Ethyl nonafluoro	butyr ether
Irritation of ey	res Eye Irritation	(rabbit) No significant irritation
163702-08-7	Methyl nonafluoi	roisobutyl ether
Irritation of ey	res Eye Irritation	(rabbit) No significant irritation
Sensitization) <i>:</i>	
163702-06-5	Ethyl nonafluoro	isobutyl ether
Sensitization	Skin Sensitization	n (guinea pig) Not classified
163702-05-4	Ethyl nonafluoro	butyl ether
Sensitization	Skin Sensitization	n (guinea pig) Not classified
163702-08-7	Methyl nonafluoi	roisobutyl ether
Sensitization	Skin Sensitization	n (guinea pig) Not classified

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

- · Carcinogenic categories:
- · IARC (International Agency for Research on Cancer):
- Group 1 Carcinogenic to humans
- Group 2A Probably carcinogenic to humans
- Group 2B Possibly carcinogenic to humans
- Group 3 Not classifiable as to its carcinogenicity to humans
- Group 4 Probably not carcinogenic to humans

67-63-0 Isopropanol

3

· NTP (National Toxicology Program):

None of the ingredients are listed.

· OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

12 Ecological Information

- · Toxicity:
- · Aquatic toxicity:

67-63-0 Isopropanol

EC50 6,851 mg/l (Green algae)

5,102 mg/l (Water flea)

- Persistence and degradability: No further relevant information available.
- · Bioaccumulative potential: No further relevant information available.

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· Mobility in soil: No further relevant information available.

Results of PBT and vPvB assessment:

· PBT: Not applicable. · vPvB: Not applicable. Other adverse effects: · Remark: Harmful to fish

· Additional ecological information:

· General notes:

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Harmful to aquatic organisms

13 Disposal Considerations

- · Waste treatment methods
- · Recommendation:

Observe all federal, state and local environmental regulations when disposing of this material.

- · Uncleaned packaging
- · Recommendation:

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Combustion products will include halogen acid (HCI/HF/HBr). Facility must be capable of handling halogenated materials. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

· Recommended cleansing agent: Water, if necessary with cleansing agents.

UN-Number:		
DOT, ADR/ADN, IMDG, IATA	Non-Regulated Material	
UN proper shipping name: DOT, ADR/ADN, IMDG, IATA	Non-Regulated Material	
Transport hazard class(es):		
DOT, ADR/ADN, ADN, IMDG, IATA		
Class:	Non-Regulated Material	
Packing group:		
DOT, ADR/ADN, IMDG, IATA	Non-Regulated Material	
Environmental hazards:	Not applicable.	

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Transport in bulk according to Annex MARPOL73/78 and the IBC Code:	II of Not applicable.	
· Special precautions for user:	Not applicable.	
· UN "Model Regulation":	Non-Regulated Material	

15 Regulatory Information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture: No further relevant information available.
- · SARA (Superfund Amendments and Reauthorization):
- · Section 355 (extremely hazardous substances):

None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):

67-63-0 Isopropanol

· TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

· Hazardous Air Pollutants

None of the ingredients are listed.

- · California Proposition 65:
- · Chemicals known to cause cancer:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

· New Jersey Right-to-Know List:

67-63-0 Isopropanol

New Jersey Special Hazardous Substance List:

67-63-0 Isopropanol

F3

· Pennsylvania Right-to-Know List:

156-60-5 trans-dichloroethylene

67-63-0 Isopropanol

Pennsylvania Special Hazardous Substance List:

156-60-5 trans-dichloroethylene

E

67-63-0 Isopropanol

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Carcinogenic categories:

· EPA (Environmental Protection Agency):

156-60-5 trans-dichloroethylene

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· TLV (Threshold Limit Value established by ACGIH):

67-63-0 Isopropanol

A4

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

None of the ingredients are listed.

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms:



· Signal word: Warning

· Hazard-determining components of labeling:

Isopropanol

· Hazard statements:

H320 Causes eye irritation.

H336 May cause drowsiness or dizziness.

· Precautionary statements:

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 Wash thoroughly after handling.

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

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/doctor if you feel unwell.

P337+P313 If eye irritation persists: Get medical advice/attention.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

· National regulations:

The product is not subject to be labelled according with the prevailing version of the regulations on hazardous substances.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

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· Date of previous version 08/18/2025

Date of preparation 09/16/2025

· Abbreviations and acronvms:

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety & Health Administration

TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flammable liquids 2: Flammable liquids – Category 2 Acute toxicity - inhalation 4: Acute toxicity - Category 4

Eye irritation 2A: Serious eye damage/eye irritation - Category 2A Eye irritation 2B: Serious eye damage/eye irritation - Category 2B

Specific target organ toxicity (single exposure) 3: Specific target organ toxicity (single exposure) - Category 3

* Data compared to the previous version altered.

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