

Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2024 and GHS Rev
07

Date of issue: 08/29/2025

Revised on 08/29/2025

1 Identification

· **Product Identifier**

· **Trade Name:** Fluosolv Contact Cleaner Plus

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

· **Product Description:**

For Industrial Use only. Not intended for consumer sale or use. Not intended for use as a medical device or drug. Contact Cleaner Plus

· **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:**



Gas cylinder

Gases under pressure - Dissolved gas

H280 Contains gas under pressure; may explode if heated.



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:**

trans-dichloroethylene

· **Hazard statements:**

H280 Contains gas under pressure; may explode if heated.

H320 Causes eye irritation.

H336 May cause drowsiness or dizziness.

(Contd. on page 2)

US

Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2024 and GHS Rev 07

Date of issue: 08/29/2025

Revised on 08/29/2025

Trade Name: Fluosolv Contact Cleaner Plus

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.
- P410+P403 Protect from sunlight. Store in a well-ventilated place.
- 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. 80 % 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)



HMIS-ratings (scale 0 - 4)

HEALTH	0	Health = 0
FIRE	1	Fire = 1
REACTIVITY	0	Physical Hazard = 0

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

Classification according to (d)(1)(ii) of § 1910.1200

The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.

Hazards not otherwise classified

There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

3 Composition/Information on Ingredients

Non-hazardous components:

163702-08-7	Methyl nonafluoroisobutyl ether	5.5-9%
163702-07-6	Methyl nonafluorobutyl ether	0.5-5%

Chemical characterization: Substance

CAS No. Description

Non-Regulated Material

Identification number(s) Not Applicable

(Contd. on page 3)

US

Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2024 and GHS Rev
07

Date of issue: 08/29/2025

Revised on 08/29/2025

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· **Additonal information:**

Trade secret made in accordance with paragraph (i) of §1910.1200 of 29 CFR 1910.1200, the OSHA Hazard Communication Standard and U.S. Code of Federal Regulations.

· **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 Components:**

CAS: 163702-06-5	Ethyl nonafluoroisobutyl ether	30-50%
	⚠ Acute toxicity - oral 4, H302	
CAS: 163702-05-4	Ethyl nonafluorobutyl ether	5-25%
	⚠ Acute toxicity - dermal 4, H312	
CAS: 156-60-5 RTECS: KV 9400000	trans-dichloroethylene	15-24%
	⚠ Flammable liquids 2, H225; ⚠ Acute toxicity - inhalation 4, H332	
CAS: 124-38-9 RTECS: FF 6400000	Carbon Dioxide	1-5%
	⚠ Gases under pressure - Compressed gas, H280; Simple Asphyxiant	

· **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.

· **After skin contact:**

Wash with soap and water.

If skin irritation occurs, consult a doctor.

· **After eye 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.

US

(Contd. on page 4)

Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2024 and GHS Rev
07

Date of issue: 08/29/2025

Revised on 08/29/2025

Trade Name: Fluosolv Contact Cleaner Plus

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:**
Closed containers exposed to heat from fire may build pressure and explode. Exposure to extreme heat can give rise to thermal decomposition.
- **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:**
Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. 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:**
Dispose of contaminated material as waste according to section 13.
Ensure adequate ventilation.
Dispose of the collected material according to regulations.
If possible, seal leaking container. Place leaking containers in a well-ventilated area, preferably an operating exhaust hood, or if necessary outdoors on an impermeable surface until appropriate packaging for the leaking container or its contents is available. Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

· PAC-1:

156-60-5	trans-dichloroethylene	280 ppm
163702-08-7	Methyl nonafluoroisobutyl ether	2500 ppm
124-38-9	Carbon Dioxide	54000 mg/m ³
163702-07-6	Methyl nonafluorobutyl ether	2500 ppm

· PAC-2:

156-60-5	trans-dichloroethylene	1000 ppm
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(Contd. on page 5)

Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2024 and GHS Rev 07

Date of issue: 08/29/2025

Revised on 08/29/2025

Trade Name: Fluosolv Contact Cleaner Plus

163702-08-7	Methyl nonafluoroisobutyl ether	8200 ppm
124-38-9	Carbon Dioxide	72000 mg/m3
163702-07-6	Methyl nonafluorobutyl ether	8200 ppm

PAC-3:

156-60-5	trans-dichloroethylene	1700 ppm
163702-08-7	Methyl nonafluoroisobutyl ether	15000 ppm
124-38-9	Carbon Dioxide	90000 mg/m3
163702-07-6	Methyl nonafluorobutyl ether	15000 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:

Ensure good ventilation/exhaustion at the workplace.

Do not breathe thermal decomposition products. Store work clothes separately from other clothing, food and tobacco products. Do not pierce or burn, even after use. 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. 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.

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 cool location.

Store in a well-ventilated place. Keep container tightly closed. Protect from sunlight. Do not expose to temperatures exceeding 50C/122F.

Information about storage in one common storage facility: Not required.

Further information about storage conditions:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Specific end use(s): No further relevant information available.

8 Exposure Controls/Personal Protection

Control parameters:
Components with occupational exposure limits:

163702-06-5	Ethyl nonafluoroisobutyl ether
TWA	200 ppm (as total isomers; manufacturer determined)

(Contd. on page 6)

US

Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2024 and GHS Rev 07

Date of issue: 08/29/2025

Revised on 08/29/2025

Trade Name: Fluosolv Contact Cleaner Plus

163702-05-4 Ethyl nonafluorobutyl ether

TWA 200 ppm (as total isomer; manufacturer determined)

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: 793 mg/m³, 200 ppm

163702-08-7 Methyl nonafluoroisobutyl ether

TWA 750 ppm (AIHA)

124-38-9 Carbon Dioxide

PEL Long-term value: 9000 mg/m³, 5000 ppm

REL Short-term value: 54,000 mg/m³, 30,000 ppm
Long-term value: 9000 mg/m³, 5000 ppm

TLV Short-term value: 54000 mg/m³, 30000 ppm
Long-term value: 9000 mg/m³, 5000 ppm

163702-07-6 Methyl nonafluorobutyl ether

TWA 750 ppm (AIHA)

• **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:**

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

• **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 assessment, select from the following respirator type(s) to reduce inhalation exposure: Half facepiece or full facepiece air-purifying respirator suitable for organic vapors and particulates Organic vapor respirators may have short service life. For questions about suitability for a specific application, consult with your respirator manufacturer.

• **Protection of hands:**

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing.

• **Material of gloves:** Gloves made from the following material(s) are recommended: Neoprene

• **Penetration time of glove material:** Not applicable.

(Contd. on page 7)

US

Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2024 and GHS Rev 07

Date of issue: 08/29/2025

Revised on 08/29/2025

Trade Name: Fluosolv Contact Cleaner Plus

· **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 state	Aerosol
· Color:	Clear, Colorless
· Odor:	Slight
· Odor threshold:	Not determined.
· Melting point/Melting range:	Not determined.
· Boiling point/Boiling range:	51.6 °C (124.9 °F)
· Flammability:	Not determined.
· Explosion limits:	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	None
· Auto igniting:	≥440 °C (≥824 °F)
· Decomposition temperature:	Not determined.
· pH-value:	Not determined.
· Viscosity:	
· Kinematic:	Not determined.
· Dynamic @ 20 °C (68 °F):	0.49 mPas
· Solubility in / Miscibility with:	
· Water @ 20 °C (68 °F):	14 ppm
· Partition coefficient (n-octanol/water):	Not determined.
· Vapor pressure @ 50 °C (122 °F):	234.4 mmHg
· Density @ 20 °C (68 °F):	1.3855 g/cm ³ (11.562 lbs/gal)
· Relative density:	Not determined.
· Vapor density:	Not determined.
· Particle characteristics	Not applicable.

· **Other information:**

· **Appearance:**

· **Form:** Aerosol

· **Important information on protection of health and environment, and on safety.**

· **Ignition temperature:** Product is not self-igniting.

· **Danger of explosion:** Not determined.

(Contd. on page 8)

US

Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2024 and GHS Rev
07

Date of issue: 08/29/2025

Revised on 08/29/2025

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- **Change in condition**
- **Evaporation rate:** Not applicable.

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:** None
- **Incompatible materials:** Al or Mg powder and high/shear temperature conditions
- **Hazardous decomposition products:**
Hydrogen chloride, Perfluoroisobutylene (PFIB), hydrogen fluoride At extreme heat

11 Toxicological Information

- **Information on toxicological effects:**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**

163702-06-5 Ethyl nonafluoroisobutyl 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 nonafluorobutyl 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)

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)

163702-08-7 Methyl nonafluoroisobutyl 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 nonafluorobutyl ether

Oral	LD50 Oral	>5,000 ml/kg (Rat)
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(Contd. on page 9)

US

Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2024 and GHS Rev 07

Date of issue: 08/29/2025

Revised on 08/29/2025

Trade Name: Fluosolv Contact Cleaner Plus

Dermal	LD50	>5,000 mg/kg (not defined)
Inhalative	LC50/4 h	>1,000 mg/l (Rat)

· **Primary irritant effect:**

· **On the skin:**

163702-06-5 Ethyl nonafluoroisobutyl ether

Irritation of skin	Skin Irritation	(rabbit) No significant irritation
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163702-05-4 Ethyl nonafluorobutyl ether

Irritation of skin	Skin Irritation	(rabbit) No significant irritation
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163702-08-7 Methyl nonafluoroisobutyl ether

Irritation of skin	Skin Irritation	(rabbit) No significant irritation
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· **On the eye:**

163702-06-5 Ethyl nonafluoroisobutyl ether

Irritation of eyes	Eye Irritation	(rabbit) No significant irritation
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163702-05-4 Ethyl nonafluorobutyl ether

Irritation of eyes	Eye Irritation	(rabbit) No significant irritation
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163702-08-7 Methyl nonafluoroisobutyl ether

Irritation of eyes	Eye Irritation	(rabbit) No significant irritation
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· **Sensitization:**

163702-06-5 Ethyl nonafluoroisobutyl ether

Sensitization	Skin Sensitization	(guinea pig) Not classified
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163702-05-4 Ethyl nonafluorobutyl ether

Sensitization	Skin Sensitization	(guinea pig) Not classified
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163702-08-7 Methyl nonafluoroisobutyl ether

Sensitization	Skin Sensitization	(guinea pig) Not classified
---------------	--------------------	--------------------------------

· **Additional toxicological information:**

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

· **Interactive effects** No interactive effects between components are known.

· **Carcinogenic categories:**

· **IARC (International Agency for Research on Cancer):**

None of the ingredients are listed.

(Contd. on page 10)

US

Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2024 and GHS Rev
07

Date of issue: 08/29/2025

Revised on 08/29/2025

Trade Name: Fluosolv Contact Cleaner Plus

· **NTP (National Toxicology Program):**

None of the ingredients are listed.

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

None of the ingredients are listed.

· **Alternative sources for toxicological information**

No non-standard sources for toxicological information where used.

12 Ecological Information

· **Toxicity:**

· **Aquatic toxicity:** No further relevant information available.

· **Persistence and degradability:** No further relevant information available.

· **Bioaccumulative potential:** No further relevant information available.

· **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:** 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. Facility must be capable of handling aerosol cans. Combustion products will include halogen acid (HCl/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.

US

(Contd. on page 11)

Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2024 and GHS Rev 07

Date of issue: 08/29/2025

Revised on 08/29/2025

Trade Name: Fluosolv Contact Cleaner Plus

14 Transport Information

- | | |
|---|------------------------|
| · 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. |
| · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: | 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):**

None of the ingredients are listed.

- **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.

(Contd. on page 12)

US

Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2024 and GHS Rev
07

Date of issue: 08/29/2025

Revised on 08/29/2025

Trade Name: Fluosolv Contact Cleaner Plus

· **Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

· **New Jersey Right-to-Know List:**

124-38-9 Carbon Dioxide

· **New Jersey Special Hazardous Substance List:**

None of the ingredients are listed.

· **Pennsylvania Right-to-Know List:**

156-60-5 trans-dichloroethylene

124-38-9 Carbon Dioxide

· **Pennsylvania Special Hazardous Substance List:**

156-60-5 trans-dichloroethylene

E

· **Carcinogenic categories:**

· **EPA (Environmental Protection Agency):**

156-60-5 trans-dichloroethylene

II

· **TLV (Threshold Limit Value established by ACGIH):**

None of the ingredients are listed.

· **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:**

trans-dichloroethylene

· **Hazard statements:**

H280 Contains gas under pressure; may explode if heated.

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.

(Contd. on page 13)

US

Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2024 and GHS Rev 07

Date of issue: 08/29/2025

Revised on 08/29/2025

Trade Name: Fluosolv Contact Cleaner Plus

P405 Store locked up.
P410+P403 Protect from sunlight. Store in a well-ventilated place.
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.

· **Date of previous version** 08/19/2025

· **Date of preparation** 08/29/2025

· **Abbreviations and acronyms:**

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)

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

Gases under pressure - Compressed gas: Gases under pressure – Compressed gas

Gases under pressure - Dissolved gas: Gases under pressure – Dissolved gas

Flammable liquids 2: Flammable liquids – Category 2

Acute toxicity - oral 4: Acute toxicity – Category 4

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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