



Page 1/10

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev 03.

Issue date 11/10/2023 Reviewed on 04/28/2023

1 Identification

· Product Identifier

· Trade Name: FLUOSOLV WS · Product Number: ng-FWS

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

Vapor degreasing. Industrial use only.

· Product Description: Vapor Degreasing Solvent Blend

Application of the substance / the mixture: Cold-cleaning and aerosol

· 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 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

Eye Irritation 2B H320 Causes eye irritation.

- · Label elements:
- · Hazard pictograms:



· Signal word: Warning

· Hazard statements:

H320 Causes eye irritation.

H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

· Precautionary statements:

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

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.

P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

(Contd. on page 2)





Page 2/10

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev

Issue date 11/10/2023 Reviewed on 04/28/2023

Trade Name: FLUOSOLV WS

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing.

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

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. 0 % of the mixture consists of component(s) of unknown toxicity.

- · Classification system: NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme
- · NFPA ratings (scale 0 4)



Health = 1Fire = 0Reactivity = 0

· HMIS-ratings (scale 0 - 4)



 \Box Health = 1 Fire = 0

Physical Hazard = 0

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

3 Composition/Information on Ingredients

· Chemical characterization: Substance

· **Description:** Mixture: consisting of the following components.

· Dangerous Components:

CAS: 156-60-5 RTECS: KV 9400000

trans-dichloroethylene

Flammable Liquids 2, H225; Acute Toxicity - Inhalation 4,

Proprietary%

H332

· 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: Take affected persons out into the fresh air.
- · After inhalation:

Supply fresh air. If required, provide artificial respiration. Consult doctor if symptoms persist.

- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eve contact; Rinse opened eye for several minutes under running water.
- · After swallowing:

Do not induce vomiting without medical advice.

(Contd. on page 3)





Page 3/10

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev 03.

Issue date 11/10/2023 Reviewed on 04/28/2023

Trade Name: FLUOSOLV WS

If swallowed and symptoms occur, consult a doctor.

- Information for doctor
- · Most important symptoms and effects, both acute and delayed: Dizziness.
- Indication of any immediate medical attention and special treatment needed:

Do not administer preparations of the adrenalin-ephedrine-group.

5 Fire-Fighting Measures

- · Extinguishing media
- · Suitable extinguishing agents:

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- For safety reasons unsuitable extinguishing agents: No further relevant information.
- · Special hazards arising from the substance or mixture:

Fire or intense heat can cause violent rupture of packages.

The product is non-flammable. Vapors may form flammable mixture with air.

Hazardous decomposition products: hydrogen fluoride, fluorinated hydrocarbons, carbonyl fluoride, carbon oxides, and hydrogen chloride.

- · Advice for firefighters This product has no flash point but the product may release flammable vapor.
- Special protective equipment for firefighters:

Mouth respiratory protective device.

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:

Remove persons from danger area.

Ventilate area, especially in low or enclosed places where heavy vapors might collect.

In case of insuffiencent ventilation, wear suitable respiratory equipment.

· 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.

· 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

- · Handling
- · Precautions for safe handling:

Avoid contact with skin, eyes and clothing

Ensure good ventilation/exhaustion at the workplace.

Contents may be under pressure, open carefully and slowly.

Handle in accordance of good safe hygiene for industrial practices.

(Contd. on page 4)





Page 4/10

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev 03.

Issue date 11/10/2023 Reviewed on 04/28/2023

Trade Name: FLUOSOLV WS

Material should not be dispensed by pouring from pail/drum shipping containers. Use of a pump is advised.

- Conditions for safe storage, including any incompatibilities
- · Storage
- Requirements to be met by storerooms and receptacles:

Store in a well-ventilated area.

Keep container tightly closed.

Store away from heat.

Store at temperatures not exceeding 100F.

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

8 Exposure Controls/Personal Protection

- · Additional information about design of technical systems: No further data; see section 7.
- · Control parameters:
- · Components with occupational exposure limits:

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

- · Additional information: The lists that were valid during the creation of this SDS were used as basis.
- · Exposure controls:
- · Personal protective equipment
- General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

· Breathing equipment:

Engineering controls: Not required if appropriate ventilation is provided. If ventilation is not adequate, use appropriate respirtory protection equipment.

For rescue and maintenence work in stoage tanks use self-contained breathing apparatus. Vapors are heavier than air and can cause suffocation by reducing oxygen available for breathing.

· Protection of hands:



Protective gloves

- · Material of gloves: Solvent Resistant
- · Penetration time of glove material: Not applicable.

(Contd. on page 5)





Page 5/10

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev 03.

Issue date 11/10/2023 Reviewed on 04/28/2023

Trade Name: FLUOSOLV WS

· Eye protection:



Safety glasses

With side shields.

Body protection:



Use protective suit.

9 Ph	vsical	and	Chemi	ical	Pro	perties
	ysicai	and	Olicili	Cui	וטוו	

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

Form: Liquid Color: Colorless

• Odor: Weak, characteristic • Odor threshold: Not applicable

· Change in condition

Boiling point/Boiling range: 43 °C (109.4 °F)

· Flash point: None (Pensky-Martens closed Cup)

· Auto igniting: N/A

· Decomposition temperature: N/A

· Ignition temperature: Product is not self-igniting.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor

mixtures are possible.

· Explosion limits:

Lower: 9.7 Vol % **Upper:** 12.8 Vol %

· Vapor pressure @ 20 °C (68 °F): 405 mmHg

· Density @ 25 °C (77 °F): 1.27 g/cm3

· Solubility in / Miscibility with:

Water: Not miscible (100 ppm max)

Viscosity:

Dynamic @ 20 °C (68 °F): 0.45 mPas

(Contd. on page 6)





Page 6/10

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev 03.

Issue date 11/10/2023 Reviewed on 04/28/2023

Trade Name: FLUOSOLV WS

Solvent content: 1143 g/l (SCAQMD methodology)

• Other information: No further relevant information available.

10 Stability and Reactivity

- · Reactivity: Stable under normal conditions.
- · Chemical stability: Stable under normal conditions.
- · Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- · Possibility of hazardous reactions: Hazardous polymerization will not occur.
- Conditions to avoid: Heat, flame and ignition sources.
- · Incompatible materials:
- Avoid contact with Alkali metals and Alkaline earth metals, powdered metal salts, strong bases
- · Hazardous decomposition products:

Hazardous decomposition products formed under fire conditions: fluorinated hydrocarbons, hydrogen fluoride, carbon dioxide (CO2), carbon monoxide, hydrogen chloride gas, carbonyl fluoride.

11 Toxicological Information

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

· I D/I C50 values	that are releva	ent for classifica	tion [.]

156-60-5 trans-dichloroethylene

Oral	LD50	7902 mg/kg (Rat)
Dermal	LD50	>5000 mg/kg (rabbit)
Inhalative	LC50/4 h	95.4 mg/l (Rat)

- · Primary irritant effect:
- On the skin: No irritating effect.
- · On the eye: Irritating effect.
- Additional toxicological information: Irritant
- · Carcinogenic categories:

· IARC (International	Agency for	Research on	Cancer)

None of the ingredients are listed.

NTP (National Toxicology Program):

None of the ingredients are listed.

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

None of the ingredients are listed.

US





Page 7/10

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev

Issue date 11/10/2023 Reviewed on 04/28/2023

Trade Name: FLUOSOLV WS

12 Ecological Information

- · **Toxicity:** The hazards for the aquatic environment are unknown.
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability: No further relevant information available.
- Behavior in environmental systems:
- · Bioaccumulative potential: No further relevant information available.
- · Mobility in soil: No further relevant information available.
- · Additional ecological information:
- · General notes:

Do not allow undiluted product or product that has not been neutralized to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment:
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects: No further relevant information available.

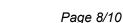
13 Disposal Considerations

· Waste treatment methods

Can be recycled by distillation. If recycling is not practical, dispose of in complicance of local

- Recommendation: Contact manufacturer for recycling information.
- · Uncleaned packaging
- Recommendation: Disposal must be made according to official regulations.

· UN-Number:		
DOT, ADR/ADN, ADN, IMDG, IATA	Non-Regulated Material	
· UN proper shipping name:		
DOT, ADR/ADN, 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.	
Special precautions for user:	Not applicable.	
		(Contd. on pag







Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev 03.

Issue date 11/10/2023 Reviewed on 04/28/2023

Trade Name: FLUOSOLV WS		
· Transport in bulk according to Annex MARPOL73/78 and the IBC Code:	II of 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):

156-60-5 trans-dichloroethylene

- · 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.

- · Carcinogenic categories:
- EPA (Environmental Protection Agency):

156-60-5 trans-dichloroethylene

| | | |

· 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:







Page 9/10

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev 03.

Issue date 11/10/2023 Reviewed on 04/28/2023

Trade Name: FLUOSOLV WS

· Signal word: Warning · Hazard statements:

H320 Causes eye irritation.

H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

· Precautionary statements:

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

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.

P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.

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.

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

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.

· Contact:

· 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)

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

Flammable Liquids 2: Flammable liquids - Category 2

(Contd. on page 10)





Page 10/10

Safety Data Sheet (SDS)
OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev
03.

Issue date 11/10/2023 Reviewed on 04/28/2023

Trade Name: FLUOSOLV WS

Acute Toxicity - Inhalation 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.

SDS created by MSDS Authoring Services www.msdsauthoring.com +1-877-204-9106

US