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

Revised on 07/14/2025

· Product Identifier		
<ul> <li>Trade Name: Fluosolv 5408 (Boeing BAC 540)</li> <li>Other means of identification</li> <li>Product Number: fx-5408</li> <li>Relevant identified uses of the substance or a Vapor degreasing. Cold cleaning. Spray cleaning Industrial use only.</li> <li>**BOEING BAC5408 APPROVED**</li> <li>Product Description: Azeotropic solvent blend. Non-PFAS solution for vapor degreasing, cold fluids.</li> <li>Application of the substance / the mixture: Proventing of the substance / the mixture of the substance / the substance / the mixture of the substance / the substance /</li></ul>	<b>mixture and</b> g. Aerosol ap cleaning, spi	plications. Carrier Fluids. ray cleaning, aerosol applications, carrie
<ul> <li>Details of the Supplier of the Safety Data She</li> <li>Manufacturer/Supplier: NuGeneration Technologies, LLC (dba NuGenTe 1155 Park Ave, Emeryville, CA 94608 fluosolv@nugentec.com</li> <li>For Product Info call 1-(800) 409-3142</li> <li>www.fluosolv.com</li> <li>www.nugentec.com/fluosolv</li> <li>Emergency telephone number: PERS Emergency Response: US and Canada -</li> </ul>	ec)	253, International 1-801-629-0667
2 Hazard(s) Identification Classification of the substance or mixture:		
Acute toxicity - oral 4	H302	Harmful if swallowed
Acute toxicity - oral 4 Specific target organ toxicity (single exposure) 3		Harmful if swallowed. May cause respiratory irritation. May cause drowsiness or dizziness.
Specific target organ toxicity (single exposure) 3	H335-H336	May cause respiratory irritation. May
Specific target organ toxicity (single exposure) 3	H335-H336	May cause respiratory irritation. May cause drowsiness or dizziness.



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### Trade Name: Fluosolv 5408 (Boeing BAC 5408 Qualified)

· 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 breath	ina.
	38 If in eyes: Rinse cautiously with water for several minutes. Remove co	
	if present and easy to do. Continue rinsing.	
P337+P313	If eye irritation persists: Get medical advice/attention.	
P411	Store at temperatures not exceeding 100°F.	
P501	Dispose of contents/container in accordance with local/region international regulations.	nal/national/
· Unknown acute	e toxicity:	
	s to knowledge of known, established toxicological or ecotoxicological valu	ies.
	ire consists of component(s) of unknown toxicity.	
	rtaining to particular dangers for man and environment:	
· Classification s	system: NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4	-Extreme
· NFPA ratings (		
HMIS-ratings (s     HEALTH 2 H     FIRE 0 FJ     REACTIVITY 0 P     Hazard(s) not c     Classification a     The SDS issue     precursor produ     Hazards not ot     There are no ac	lealth = 2 ire = 0 hysical Hazard = 0 <b>otherwise classified (HNOC):</b> None known <b>according to (d)(1)(ii) of § 1910.1200</b> er does not object to the classifications provided by importers or man	
3 Composition	n/Information on Ingredients	
· Non-hazardous	s components:	
Proprietary Non		1-15%
<ul> <li>Description: Mixture: consist Mixture of subst</li> </ul>	acterization: Substance ing of the following components. tances listed with non-hazardous additions and/or components that are lea on-hazardous, components listed under threshold, and listed component to	

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85-99%

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Trade Name: Fluosolv 5408 (Boeing BAC 5408 Qualified)

#### · Dangerous Components:

CAS: 156-60-5 trans-dichloroethylene

RTECS: KV 9400000 🚸 Flammable liquids 2, H225; 🚸 Acute toxicity - inhalation 4, 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.

Fluosolv 5408 does not contain any PFAS per the, "EPA Reporting and Recordkeeping Requirements for Perfluoroalkyl and Polyfluoroalkyl Substances", final rule dated September 28, 2023.

# 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. In case of unconsciousness place patient stably in the side position for transportation.

· After skin contact: If skin irritation occurs, consult a doctor.

· After eye contact:

Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor. If easy to do so, remove contact lenses if worn.

If eye irritation occurs, consult a doctor.

## • After swallowing:

Do not induce vomitting. Never give anything by mouth to an unconscious person. Immediately call a doctor. If swallowed and symptoms occur, consult a 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: Use fire fighting measures that suit the environment.

· For safety reasons unsuitable extinguishing agents: Use appropriate extinguishers

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.

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Trade Name: Fluosolv 5408 (Boeing BAC 5408 Qualified)

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

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- **Personal precautions, protective equipment and emergency procedures:** Ventilate area, especially in low or enclosed places where heavy vapors might collect. In case of insuffiencent ventilation, wear suitable respiratory equipment.
- · Environmental precautions: Dilute with plenty of water.
- **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.

· PAC-1:	
156-60-5 trans-dichloroethylene	280 ppm
· PAC-2:	
156-60-5 trans-dichloroethylene	1000 ppm
· PAC-3:	
156-60-5 trans-dichloroethylene	1700 ppm
Reference to other sections:	
See Section 7 for information on safe handling	

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

<sup>.</sup> Precautions for safe handling:

Contents may be under pressure, open carefully and slowly.

Handle in accordance of good safe hygiene for industrial practices.

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

· 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 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: Keep receptacle tightly sealed.

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

# 8 Exposure Controls/Personal Protection

- · Control parameters:
- · Components with occupational exposure limits:
- 156-60-5 trans-dichloroethylene
- PEL Long-term value: 790 mg/m<sup>3</sup>, 200 ppm
- REL Long-term value: 790 mg/m<sup>3</sup>, 200 ppm
- TLV Long-term value: 793 mg/m<sup>3</sup>, 200 ppm
- · 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.
- Immediately remove all soiled and contaminated clothing and wash before reuse.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· Breathing equipment:

Engineering controls: Not required if appropriate ventilation is provided. If ventilation is not adequate, use appropriate respiratory 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.
- Eye protection:



Safety glasses

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# Trade Name: Fluosolv 5408 (Boeing BAC 5408 Qualified)

· Body protection:

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Use protective suit.

· Limitation and supervision of exposure into the environment: None

Information on basic physical and chemic	al properties
General Information Physical state	Liquid
Color:	Colorless
Odor:	Weak, characteristic
Odor threshold:	
	Not applicable Not determined.
Melting point/Melting range:	47 °C (116.6 °F)
Boiling point/Boiling range:	
Flammability: Explosion limitor	Not applicable.
Explosion limits: Lower:	Not determined.
	Not determined. Not determined.
Upper: Flash point:	Not determined. None
Auto igniting:	
Decomposition temperature:	Not applicable N/A
pH-value:	Not determined.
Viscosity:	Not determined.
Kinematic:	Not determined.
Dynamic @ 20 °C (68 °F):	$0.41 \mathrm{cP}$
Solubility in / Miscibility with:	0.41 CF
Water:	Not miscible (100 ppm max)
Partition coefficient (n-octanol/water):	Not determined.
Vapor pressure:	Not determined.
Vapor pressure: Vapor pressure:	Not determined.
Density @ 20 °C (68 °F):	1.27 g/cm³ (10.5982 lbs/gal)
Relative density:	Not determined.
Vapor density:	Not determined.
Particle characteristics	Not applicable.
Other information:	
Appearance:	
Form:	Liquid
Important information on protection of he	alth
and environment, and on safety.	
Ignition temperature:	Product is not self-igniting.
Danger of explosion:	Product does not present an explosion hazard.





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Trade Name: Fluosolv 5408 (Boeing BAC 5408 Qualified)

· Solvent content:

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- · VOC content:
- · Solids content:
- Change in condition
- Evaporation rate:

1207 g/L 0.0 %

Not determined.

## 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 and flame
- *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:

· 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)

#### Primary irritant effect:

· On the skin: No irritating effect.

· On the eye: Irritating effect.

· Additional toxicological information:

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

Harmful

Irritant

· Interactive effects No interactive effects between components are known.

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#### · 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.

· Alternative sources for toxicological information

No non-standard sources for toxicological information where used.

# 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.
- · 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:
- · 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.

# 13 Disposal Considerations

· Waste treatment methods

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

· Recommendation:

Contact manufacturer for recycling information.

Must not be disposed of together with household waste. Do not allow product to reach sewage system. Observe all federal, state and local environmental regulations when disposing of this material.

- · Uncleaned packaging
- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

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Trade Name: Fluosolv 5408 (Boeing BAC 5408 Qualified)

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.
<i>Transport in bulk according to Annex II</i> <i>MARPOL73/78 and the IBC Code:</i>	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):
- None of the ingredients are listed.
- · TSCA (Toxic Substances Control Act):

156-60-5 trans-dichloroethylene

<sup>.</sup> 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.

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Trade Name: Fluosolv 5408 (Boeing BAC 5408 Qualified)

None of the ingredients are listed.

### · New Jersey Right-to-Know List:

None of the ingredients are listed.

• New Jersey Special Hazardous Substance List:

None of the ingredients are listed.

## <sup>•</sup> Pennsylvania Right-to-Know List:

156-60-5 trans-dichloroethylene

### · Pennsylvania Special Hazardous Substance List:

156-60-5 trans-dichloroethylene

· 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:** 



- · Signal word: Warning
- · Hazard statements:

H302 Harmful if swallowed.

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.
	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.
P411	Store at temperatures not exceeding 100°F.
P501	Dispose of contents/container in accordance with local/regional/national/ international regulations.

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Trade Name: Fluosolv 5408 (Boeing BAC 5408 Qualified)

#### · 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 07/11/2025
- · Version number of previous version: 7
- · Date of preparation 07/14/2025
- 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) 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 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