



Safety Data Sheet

This safety data sheet complies with the requirements of: 2012 OSHA Hazard Communication Standard (29CFR 1910.1200)

Product name ANSUL® LVS NF-40 NON-FLUORINATED AGENT

1. Identification

1.1. Product name ANSUL® LVS NF-40 NON-FLUORINATED AGENT

1.2. Product code 454649
Synonyms None
Chemical Family No information available

1.3. Recommended use Fire extinguishing agent.
Uses advised against Consumer use.

1.4. Company Name Tyco Fire Protection Products
One Stanton Street
Marinette, WI 54143-2542
Telephone: 715-735-7411
Contact point Product Stewardship at +1-715-735-7411
E-mail address psra@jci.com

1.5. Emergency telephone CHEMTREC 001-800-424-9300 or 001-703-527-3887

2. Hazards Identification

Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not classified

2.2. Label elements

Signal word
Not Hazardous

Hazard Statements
None

Precautionary Statements

2.3. Hazards not otherwise classified (HNOC)

Not applicable.



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2.4. Other Information

3. Composition/information on Ingredients

3.1. Mixture

Chemical name	CAS No	Weight-%
Glycerol	56-81-5	3-7

4. First aid measures

4.1.

Eye Contact

Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

Skin contact

Wash skin with soap and water. Get medical attention if irritation develops and persists.

Inhalation

Remove to fresh air. If breathing is difficult, give oxygen. (Get medical attention immediately if symptoms occur.).

Ingestion

Rinse mouth. Do not induce vomiting without medical advice. If swallowed, call a poison control center or physician immediately.

4.2.

Symptoms

No information available.

4.3.

Note to physicians

Treat symptomatically.

5. Fire-fighting measures

5.1. Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2. Unsuitable Extinguishing Media

None.

5.3. Specific Hazards Arising from the Chemical

None known.

Hazardous Combustion Products

Carbon oxides, Nitrogen oxides (NOx), Oxides of sulfur

5.4. Explosion Data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.



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5.5. Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal Precautions Ensure adequate ventilation, especially in confined areas.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental Precautions Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas. See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Pick up and transfer to properly labeled containers.

7. Handling and Storage

7.1. Precautions for safe handling

Advice on safe handling Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible Materials Strong oxidizing agents. Strong acids. Strong bases.

8. Exposure Controls/Personal Protection

8.1. Control parameters

Exposure guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH	Mexico OEL
Glycerol 56-81-5	No data available	-	-	TWA 10 mg/m ³ (VLE-PPT)

OSHA (Occupational Safety and Health Administration of the US Department of Labor) ACGIH (American Conference of Governmental Industrial Hygienists) NIOSH IDLH Immediately Dangerous to Life or Health

8.2. Appropriate engineering controls

Engineering controls Ensure adequate ventilation, especially in confined areas.



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8.3. Individual protection measures, such as personal protective equipment

Eye/Face Protection	Avoid contact with eyes. Tight sealing safety goggles.
Skin and Body Protection	Wear protective gloves and protective clothing.
Respiratory Protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
Ventilation	Use local exhaust or general dilution ventilation to control exposure with applicable limits

8.4. General hygiene considerations

Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid	Color	Light yellow
Odor	Characteristic		
Odor Threshold	No data available		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	7.5 - 8.5	
Melting point/freezing point	No information available	
Boiling point / boiling range	No information available	
Flash Point	No information available	
Evaporation Rate	No data available	
Flammability (solid, gas)	No data available	
Flammability limit in air		
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor Pressure	No data available	
Vapor Density	No information available	
Specific gravity	No data available	
Water Solubility	No data available	
Solubility in Other Solvents	No data available	
Partition coefficient	No data available	
Autoignition Temperature	No information available	
Hyphen	No data available	
Kinematic viscosity	No data available	
VOC content (%)	4	
Density	1.28	

10. Stability and Reactivity

10.1. Chemical stability

Stable under recommended storage conditions.



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10.2. Reactivity

No data available

10.3. Possibility of hazardous reactions

None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

10.4. Conditions to Avoid

Extremes of temperature and direct sunlight.

10.5. Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

10.6. Hazardous decomposition products

Carbon oxides. Nitrogen oxides (NOx). Oxides of sulfur.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Product information

Table with 6 columns: Method, species, Exposure Route, Effective dose, Exposure time, Results. Rows include U.S. EPA Health Effects Test Guidelines for Oral, Dermal, and Inhalation toxicity, and Dermal Irritation.

Product information

Table with 6 columns: Method, species, Exposure Route, Effective dose, Exposure time, Results. Row includes U.S. EPA Health Effects Test Guidelines for Ocular Irritation.

Product information

Table with 4 columns: Method, species, Exposure Route, Results. Row includes U.S. EPA Health Effects Test Guidelines for Sensitization: Local Lymph Node Assay.

SECTION 12: Ecological information

Product information

Table with 6 columns: Method, Species, Endpoint type, Effective dose, Exposure time, Results. Rows include OECD Test No. 203: Fish, Acute Toxicity Test for Rainbow Trout and Marine Species-Silverside.



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	Minnow, Menidia Beryllina				
OECD Test No. 202: Daphnia sp., Acute Immobilization Test	Daphnia spp	EC50	>100 mg/l	48 hours	NOEC: 100 mg/l
OECD Test No. 201: Freshwater Alga and Cyanobacteria, Growth Inhibition Test	Skeletonema costatum	IC50	>100 mg/l	96 hours	NOEC: 100 mg/l
OECD Test No. 201: Freshwater Alga and Cyanobacteria, Growth Inhibition Test	Pseudokirchneriella subcapitata	IC50	>100 mg/l	72 hours	NOEC: 100 mg/l
U.S.EPA Health Effects Test Guidelines, OCSPP 850.1035: Static 96-hour Acute Toxicity Test	Mysidopsis bahia	EC50	>1000 mg/l	96 hours	NOEC: 500 mg/l

Persistence and Degradability

Product information			
Method	Exposure time	VALUE	Results
OECD Test No. 301B: Ready Biodegradability: CO2 Evolution Test (TG 301 B)	29 days	test substance yielded a mean biodegradation of 65.22%	Biodegradable
OECD Test No. 209: Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)	3 hours		IC50 >1000 mg/l

Biodegradability (B.O.D./C.O.D.)

BOD/COD analysis
Concentrate:
BOD5: 194125mg/L
COD: 288300 mg/L

Diluted (99% water, 1% Concentrate)
BOD5: 1829 mg/L
COD: 2916 mg/L

Bioaccumulative Potential

Bioaccumulation No information available.

Chemical name	Partition coefficient
Glycerol	-1.75

Mobility

Mobility in Soil No information available.

Mobility No information available.

13. Disposal Considerations

13.1. Waste Treatment Methods

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and



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regulations.

Contaminated Packaging Do not reuse container.

14. Transport Information

<u>DOT</u>	NOT REGULATED
<u>TDG</u>	NOT REGULATED
<u>MEX</u>	NOT REGULATED
<u>ICAO (air)</u>	NOT REGULATED
<u>IATA</u>	NOT REGULATED
<u>IMDG</u>	NOT REGULATED

15. Regulatory Information

15.1. International Inventories

TSCA	Complies
DSL/NDSL	Complies
ENCS	Complies
IECSC	Complies
KECL	Does not comply
PICCS	Does not comply
AICS	Complies

Legend:

- TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
- ENCS - Japan Existing and New Chemical Substances
- IECSC - China Inventory of Existing Chemical Substances
- KECL - Korean Existing and Evaluated Chemical Substances
- PICCS - Philippines Inventory of Chemicals and Chemical Substances
- AICS - Australian Inventory of Chemical Substances

15.2. US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40



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CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

15.3. US State Regulations

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Glycerol 56-81-5	X	X	X
1,2-Propanediol 57-55-6	X	-	X

16. Other information, including date of preparation of the last revision

NFPA	Health hazards 2	Flammability 0	Instability 0	Special hazards -
HMIS	Health hazards 2	Flammability 0	Physical hazards 0	Personal Protection X

Revision date 16-Feb-2023

Revision note No information available.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet