

Safety Data Sheet

according to OSHA HCS 29 CFR 1910.1200(g)



Trade name: **NanoFuel®-V Solvent**

Revision date: 06/01/2020

Product No: 398

1. PRODUCT AND COMPANY IDENTIFICATION

Product identifiers

Product name: NanoFuel®-V Solvent

Product No.: 398

Manufacturer: Prolume / NanoLight

CAS-no.: N/A

EC-no.:

Other means of identification: none

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

Identified uses: solvent for Coelenterazine-V and its derivatives

Details of the supplier of the safety data sheet

Supplier: Prolume
P.O. Box 2746
Pinetop, AZ 85935
USA

phone: +1 928-367-1200

email: info@prolume.com

Emergency telephone number

Phone: +1 928-367-1200

2. HAZARD IDENTIFICATION

Classification of the substance or mixture

GHS classification in accordance with 29 CFR 1910 (OSHA HCS) and No 1272/2008 [CLP] (EC)

Flammable Liquid, Category 3, H226

GHS label elements including precautionary statements



Pictogram

Signal word

Danger

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Hazard statement	H302	Harmful if swallowed.
	H360	May damage fertility or the unborn child.
	H370	Causes damage to organs.
	H372	Causes damage to organs through prolonged or repeated exposure.

Precautionary statements:

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe fumes, mist, vapors, or spray.
P264	Wash arms, hands and face thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves and eye protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell.
P307+P311	IF exposed: Call a POISON CENTER or physician.
P308+P313	IF exposed or concerned: Get medical attention.
P314	Get medical attention if you feel unwell.
P321	Specific treatment (Wash areas of contact with water).
P330	Rinse mouth.
P405	Store locked up.
P501	Dispose of contents in accordance with local, state, federal and international regulations.

NFPA Rating:

Health: 1

Flammability: 1

Reactivity: 0

Special Hazard: n/a

Hazards not otherwise classified (HNOC) or not covered by GHS

none

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components of Substance or Mixture

Mixture containing hazardous ingredient: Methyl Alcohol ($\geq 5\%$ - $< 30\%$) CAS-No. 67-56-1

4. FIRST AID MEASURES

Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

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If inhaled

Not expected to require first aid. If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

May cause irritation with burning and stinging with possible damage to the cornea. Flush eyes with water.

If swallowed

Call poison center or physician if you feel unwell. Dilute immediately with water or milk. Induce vomiting. Consult a physician.

Most important symptoms and effects, both acute and delayed

Harmful if swallowed. May damage fertility or the unborn child. Causes damage to organs. Causes damage to organs through prolonged or repeated exposure. If ingested, dilute with large quantity of water. Induce vomiting and call a physician if necessary. Wash areas of contact with water. EYE CONTACT: May cause irritation with burning and stinging with possible damage to the cornea and conjunctiva. SKIN CONTACT: May cause irritation, redness, and pain. Indication of any immediate medical attention and special treatment needed

5. FIREFIGHTING MEASURES

Suitable extinguishing media

Water, dry chemical, carbon dioxide, halon, or standard foam

Special protective equipment for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid breathing vapors, mist or gas. Remove all sources of ignition.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up

Absorb with inert material (vermiculite, sand). Ventilate and arrange disposal. Sweep up and shovel. Keep in suitable, closed containers for disposal. Wipe surface with moist towel.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid inhalation of vapor or mist. Avoid direct contact with substance.

Conditions for safe storage

Store locked up. Keep container tightly closed in a dry and well-ventilated place.

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8. EXPOSURE CONTROLS – PERSONAL PROTECTION

Components with workplace control parameter

Substance: Methanol in NanoFuel- V Solvent

Control parameter: TWA exposure limit for Methyl Alcohol (67-56-1) 200 ppm (TWA)

Personal protective equipment

Hand protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Respiratory protection: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Eye protection: Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Chemical Name	NanoFuel-V Solvent
Appearance	Clear liquid
Odor	No data available
Odor threshold	No data available
pH	No data available
Melting point / freezing point	No data available
Boiling point	No data available
Flash point	No data available
Evaporate rate	No data available
Flammability	Slightly flammable
Explosive limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available

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Solubility	Miscible with water
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available

10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: No data available.

Conditions to avoid: No data available

Materials to avoid: No data available

Hazardous decomposition products: Thermal decomposition may release acrid smoke and irritating fumes

11. TOXICOLOGICAL INFORMATION

Acute toxicity: Oral LD50 Methanol 5628 mg/kg
 Inhalation LC50 None
 Dermal LD50 None
 Other information on acute toxicity no data available

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: no data available

Respiratory or skin sensitization: no data available

Germ cell mutagenicity: no data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

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NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Specific target organ toxicity - single exposure (Globally Harmonized System): no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System): no data available

Aspiration hazard: no data available

Additional Information RTECS: None

12. ECOLOGICAL INFORMATION

Toxicity: no information available

Persistence and degradability: no information available

Biodegradation: no information available

Mobility in soil: no information available

Results of PBT and vPvB assessment: no information available as chemical safety assessment not required/not conducted

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

13. DISPOSAL CONSIDERATIONS

Do not dispose product directly into sewage. Consult local state or national regulation for proper disposal.

14. TRANSPORT INFORMATION

IATA, IMDG, DOT(US) not a dangerous good due to low quantity of Methyl Alcohol in mixture

UN number: none

UN proper shipping name: none

Transport hazard class: none

Packing group: none

Environmental hazards: none

Special precaution for user: none

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15. REGULATORY INFORMATION

US Federal Regulations US Toxic Substances Control Act(TSCA): Not listed

SARA 302: No chemicals were found.

SARA 313: Methyl Alcohol (CAS # 67-56-1): 1.0 % de minimis concentration

SARA 311/312 Hazards: Methyl Alcohol (CAS # 67-56-1): 5000 lb final RQ; 2270 kg final RQ

16. OTHER INFORMATION

Classification according to Regulation (EC) Nr. 1272/2008

Prepared by: Regulatory Department - Prolume Inc.

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Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. Prolume shall not be held liable for any damage resulting from handling or contact with the above product.

Department issuing SDS:

Prolume Inc.

P.O. Box 2746

Pinetop, AZ 85935

Date of preparation / revision: 06/01/2020

Abbreviations and acronyms:

DOT: US Department of Transportation

IATA: International Air Transport Association

IMDG: International Maritime Code for Dangerous Goods

ACGIH: American Conference of Governmental Industrial Hygienists

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

OSHA: Occupational Safety & Health