



According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

## SECTION 1: Identification

### 1.1. Identification

Product form : Mixture  
Product name : GlueAngel Glue Genius Adhesive

### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Cyanoacrylate adhesive

### 1.3. Supplier

National Adhesive Inc  
8280 Willow Oaks Corporate Drive, Suite 600  
Fairfax, VA, 22031, USA  
Tel: +1 (855) 674-4583  
Email: glueangel@nationaladhesive.com

### 1.4. Emergency telephone number

Emergency number : INFOTRAC (North America): 1-800-535-5053

## SECTION 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture

#### GHS US classification

Flam. Liq. 4  
Skin Irrit. 2  
Eye Irrit. 2A  
Skin Sens. 1  
Carc. 2  
STOT SE 3

Combustible liquid  
Causes skin irritation.  
Causes serious eye irritation.  
May cause an allergic skin reaction.  
Suspected of causing cancer.  
May cause respiratory irritation.

### 2.2. GHS Label elements, including precautionary statements

#### GHS US labelling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Warning  
Hazard statements (GHS US) : Combustible liquid  
Causes skin irritation.



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**Precautionary statements (GHS US)**

May cause an allergic skin reaction.  
 Causes serious eye irritation.  
 May cause respiratory irritation.  
 Suspected of causing cancer.

: Obtain special instructions before use.  
 Do not handle until all safety precautions have been read and understood.  
 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 Wash hands, forearms and face thoroughly after handling.  
 Use only outdoors or in a well-ventilated area.  
 Contaminated work clothing must not be allowed out of the workplace.  
 Wear protective gloves/protective clothing/eye protection/face protection.  
 If on skin: Wash with plenty of water.  
 Take off contaminated clothing and wash it before reuse.  
 If skin irritation or rash occurs: Get medical advice/attention.  
 If inhaled: Remove person to fresh air and keep comfortable for breathing.  
 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.  
 If exposed or concerned: Get medical advice/attention.  
 Call a poison center or doctor if you feel unwell.  
 Keep container tightly closed.  
 Store in a well-ventilated place. Keep cool.  
 Store locked up.  
 Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

**2.3. Other hazards which do not result in classification**

Other hazards which do not result in classification : Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.

**2.4. Unknown acute toxicity (GHS US)**

Not applicable

**SECTION 3: Composition/information on ingredients**

**3.1. Substances**

Not applicable

**3.2. Mixtures**

Name	Product identifier	%
Ethyl cyanoacrylate	CAS-No.: 7085-85-0	≥ 90



**FOR EMERGENCIES CALL: INFO TRAC # 1-800-535-5053**



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 8280 Willow Oaks, Corporate Drive,  
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 www.nationaladhesive.com



According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

Name	Product identifier	%
1,4-Benzenediol	CAS-No.: 123-31-9	≤ 0.1

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a POISON CENTER/doctor if you feel unwell. If the victim is unconscious : Call a POISON CENTER/doctor.
First-aid measures after skin contact	: IF ON SKIN: Wash with plenty of Water. Do not pull bonded skin apart. Any bonded skin should be gently peeled apart, preferably after soaking in warm, soapy water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If the eyelids are bonded closed, release eyelashes by covering with a pad soaked with warm water. Do not force the eye open. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Ensure that breathing passages are not obstructed. The product will polymerize immediately in the mouth making it almost impossible to swallow. Saliva will slowly separate the solidified product from the mouth. Get medical advice/attention if you feel unwell.

### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation	: May cause irritation to the respiratory tract.
Symptoms/effects after skin contact	: Causes skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
Symptoms/effects after ingestion	: May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Chronic symptoms	: Suspected of causing cancer.

### 4.3. Immediate medical attention and special treatment, if necessary

Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). In the case of lung irritation: Primary treatment using corticoide spray, eg. Auxiloson spray, Pulmicort-dosage-spray. (Auxiloson and Pulmicort are registered trademarks).





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## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : carbon dioxide (CO<sub>2</sub>), dry chemical powder, water spray. Alcohol resistant foam.  
Unsuitable extinguishing media : Do not use water jet.

### 5.2. Specific hazards arising from the chemical

Fire hazard : Combustible liquid. Products of combustion may include, and are not limited to: oxides of carbon. Nitrogen oxides.

### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Move containers away from the fire area if this can be done without risk. Cool closed containers exposed to fire with water spray. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Use special care to avoid static electric charges.

#### 6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

#### 6.1.2. For emergency responders

Emergency procedures : Ensure adequate ventilation. Avoid contact with skin and eyes.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

For containment : Stop leak if safe to do so. Remove all sources of ignition. Absorb and/or contain spill with inert material (sand, vermiculite or other appropriate material), then place in suitable container. Do not flush into surface water or sewer system. Wear recommended personal protective equipment.  
Methods for cleaning up : Do not use cloths for mopping up. Flood with water to complete polymerization. Sweep or shovel spills into appropriate container for disposal. Solid material can be disposed as non-hazardous waste.

### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection".





According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with eyes, skin and clothing. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not swallow. When using do not eat, drink or smoke. Keep away from sources of ignition - No smoking. Avoid contact with fabric and paper goods. Contact with these may cause polymerization that can generate smoke and strong irritating vapors, and can cause thermal burns. Use only outdoors or in a well-ventilated area. Handle and open container with care.
Hygiene measures	: Take off immediately all contaminated clothing and wash it before reuse. Wash hands, forearms and face thoroughly after handling.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Keep out of the reach of children. Store locked up. Keep in fireproof place. Keep away from heat, sparks, flame and sources of ignition. Keep cool. Keep away from clothing and other combustible materials. Keep away from food, drink and animal feedingstuffs. Store away from alkalis. Store tightly closed in a dry, cool and well-ventilated place.
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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Glue Genius Adhesive

No additional information available

#### Ethyl cyanoacrylate (7085-85-0)

##### USA - ACGIH - Occupational Exposure Limits

ACGIH OEL TWA [ppm]	0.2 ppm (Cyanoacrylates)
ACGIH OEL STEL [ppm]	1 ppm (Cyanoacrylates)
ACGIH chemical category	dermal sensitizer

#### 1,4-Benzenediol (123-31-9)

##### USA - ACGIH - Occupational Exposure Limits

ACGIH OEL TWA	1 mg/m <sup>3</sup>
ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans, dermal sensitizer

##### USA - OSHA - Occupational Exposure Limits

OSHA PEL TWA [1]	2 mg/m <sup>3</sup>
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According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

### 1,4-Benzenediol (123-31-9)

#### USA - IDLH - Occupational Exposure Limits

IDLH	50 mg/m <sup>3</sup>
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#### USA - NIOSH - Occupational Exposure Limits

NIOSH REL C	2 mg/m <sup>3</sup>
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### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station. Provide readily accessible eye wash stations and safety showers.

Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

#### Hand protection:

Wear suitable gloves resistant to chemical penetration. Use synthetic rubber gloves. Do not use PVC, rubber, nylon or cotton gloves.

#### Eye protection:

Wear eye/face protection

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

#### Other information:

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

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: gel.
Colour	: Clear to light yellow
Odour	: Characteristic
Odour threshold	: No data available
pH	: No data available
Melting point	: -22 °C
Freezing point	: No data available





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Boiling point	: > 150 °C
Flash point	: > 85 °C
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: Flammable Combustible liquid.
Vapour pressure	: < 0.2 mmHg (25°C)
Relative vapour density at 20 °C	: 3
Relative density	: 1.1 (25°C)
Solubility	: Polymerizes on exposure to water (moisture).
Partition coefficient n-octanol/water	: No data available
Auto-ignition temperature	: 485 °C
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 900 – 1300 cP [25 °C]
Explosive limits	: No data available
Explosive properties	: Not explosive.
Oxidising properties	: Not oxidizing.

## 9.2. Other information

VOC content : < 2 % 20g/l (California SCAQMD Method 361B)

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reactions known under normal conditions of use. Rapid exothermic polymerization will occur in the presence of water, amines, alkalis, oxidizing agents and alcohols.

### 10.2. Chemical stability

Stable under normal conditions. May form flammable/explosive vapour-air mixture.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Hazardous polymerization may occur if exposed to high temperature.

### 10.4. Conditions to avoid

Heat. Incompatible materials. Sources of ignition.

### 10.5. Incompatible materials

Water. Amines. Alkalis. Alcohol. Oxidizing agents.

### 10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon. Nitrogen oxides. May release flammable gases.





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**SECTION 11: Toxicological information**
**11.1. Information on toxicological effects**

Acute toxicity (oral) : Not classified.  
 Acute toxicity (dermal) : Not classified.  
 Acute toxicity (inhalation) : Not classified.

**Ethyl cyanoacrylate (7085-85-0)**

LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Animal sex: male, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 inhalation rat	< 21.1 mg/l (Exposure time: 1 h)

**1,4-Benzenediol (123-31-9)**

LD50 oral rat	298 mg/kg
LD50 dermal rabbit	74800 mg/kg

Skin corrosion/irritation : Causes skin irritation.  
 Serious eye damage/irritation : Causes serious eye irritation.  
 Respiratory or skin sensitisation : May cause an allergic skin reaction.  
 Germ cell mutagenicity : Not classified.  
 Carcinogenicity : Suspected of causing cancer.

**1,4-Benzenediol (123-31-9)**

IARC group	3 - Not classifiable
National Toxicology Program (NTP) Status	Evidence of Carcinogenicity

Reproductive toxicity : Not classified.  
 STOT-single exposure : May cause respiratory irritation.

**Ethyl cyanoacrylate (7085-85-0)**

STOT-single exposure	May cause respiratory irritation.
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STOT-repeated exposure : Not classified.  
 Aspiration hazard : Not classified.  
 Viscosity, kinematic : No data available  
 Symptoms/effects after inhalation : May cause irritation to the respiratory tract.  
 Symptoms/effects after skin contact : Causes skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin. May cause an allergic skin reaction.  
 Symptoms/effects after eye contact : Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.  
 Symptoms/effects after ingestion : May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.







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Chronic symptoms : Suspected of causing cancer.  
Other information : Likely routes of exposure: ingestion, inhalation, skin and eye.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : May cause long-term adverse effects in the aquatic environment.

#### 1,4-Benzenediol (123-31-9)

LC50 - Fish [1]	0.044 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])
EC50 - Crustacea [1]	0.29 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 - Fish [2]	0.044 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 - Crustacea [2]	0.061 mg/l Test organisms (species): Daphnia magna

### 12.2. Persistence and degradability

#### Glue Genius Adhesive

Persistence and degradability : Not established.

### 12.3. Bioaccumulative potential

#### Glue Genius Adhesive

Bioaccumulative potential : Not established.

#### 1,4-Benzenediol (123-31-9)

BCF - Fish [1]	40
Partition coefficient n-octanol/water	0.5

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Other information : No other effects known.





According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

- Product/Packaging disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. The generation of waste should be avoided or minimized wherever possible.
- Additional information : Handle empty containers with care because residual vapours are flammable.

## SECTION 14: Transport information

In accordance with DOT

### 14.1. UN number

DOT NA No : NA1993

### 14.2. UN proper shipping name

Proper Shipping Name (DOT) : Combustible liquid, n.o.s. (Ethyl cyanoacrylate)

### 14.3. Transport hazard class(es)

DOT  
Transport hazard class(es) (DOT) : Combustible liquid

### 14.4. Packing group

Packing group (DOT) : III

### 14.5. Environmental hazards

Other information : No supplementary information available.

### 14.6. Special precautions for user

Special transport precautions : Do not handle until all safety precautions have been read and understood.

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable





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## SECTION 15: Regulatory information

### 15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

### 15.2. International regulations

No additional information available

### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

## SECTION 16: Other information

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

Issue date : 07/15/2021  
Revision date : 07/15/2021  
Other information : None.  
Prepared by : Nexreg Compliance Inc.  
[www.Nexreg.com](http://www.Nexreg.com)



Safety Data Sheet (SDS), USA - Nexreg 2021

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# SAFETY DATA SHEET

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

## SECTION 1: Identification

### 1.1. Identification

Product form : Mixture  
 Product name : GlueAngel Glue Genius Activator

### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Activator for cyanoacrylate adhesives

### 1.3. Supplier

National Adhesive Inc  
 8280 Willow Oaks Corporate Drive, Suite 600  
 Fairfax, VA, 22031, USA  
 Tel: +1 (855) 674-4583  
 Email: glueangel@nationaladhesive.com

### 1.4. Emergency telephone number

Emergency number : INFOTRAC (North America): 1-800-535-5053

## SECTION 2: Hazard(s) identification


### 2.1. Classification of the substance or mixture

#### GHS US classification

Flam. Aerosol 1	Extremely flammable aerosol
Press. Gas (Liq.)	Contains gas under pressure; may explode if heated
Carc. 2	Suspected of causing cancer
Asp. Tox. 1	May be fatal if swallowed and enters airways

### 2.2. GHS Label elements, including precautionary statements

#### GHS US labeling

Hazard pictograms (GHS US) : 

Signal word (GHS US) : Danger

Hazard statements (GHS US) : Extremely flammable aerosol  
 Contains gas under pressure; may explode if heated  
 May be fatal if swallowed and enters airways  
 Suspected of causing cancer



According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

Precautionary statements (GHS US) : Obtain special instructions before use.  
 Do not handle until all safety precautions have been read and understood.  
 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 Do not spray on an open flame or other ignition source.  
 Do not pierce or burn, even after use.  
 Wear protective gloves/protective clothing/eye protection/face protection.  
 If exposed or concerned: Get medical advice/attention.  
 If swallowed: Immediately call a poison center or doctor.  
 Do NOT induce vomiting.  
 Store locked up.  
 Store in a well-ventilated place.  
 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.  
 Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%
Petroleum gases, liquefied	CAS-No.: 68476-85-7	< 60
Naphtha (petroleum), hydrotreated light	CAS-No.: 64742-49-0	< 50
Benzenamine, N,N,4-trimethyl-	CAS-No.: 99-97-8	< 1

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.





According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

First-aid measures after skin contact	: If skin irritation occurs: Wash skin with plenty of water. Obtain medical attention if irritation persists.
First-aid measures after eye contact	: 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.
First-aid measures after ingestion	: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

#### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation	: May cause irritation to the respiratory tract.
Symptoms/effects after skin contact	: May cause skin irritation. Repeated exposure may cause skin dryness or cracking.
Symptoms/effects after eye contact	: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
Symptoms/effects after ingestion	: May be fatal if swallowed and enters airways. May result in aspiration into the lungs, causing chemical pneumonia.
Chronic symptoms	: Suspected of causing cancer.

#### 4.3. Immediate medical attention and special treatment, if necessary

Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide (CO <sub>2</sub> ).
Unsuitable extinguishing media	: Do not use water jet.

#### 5.2. Specific hazards arising from the chemical

Fire hazard	: Extremely flammable aerosol. Products of combustion may include, and are not limited to: oxides of carbon. Toxic fumes.
Explosion hazard	: Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

#### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Move containers away from the fire area if this can be done without risk. Cool closed containers exposed to fire with water spray.
Protection during firefighting	: Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).





According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate every possible source of ignition. Use only non-sparking tools. Use special care to avoid static electric charges.

#### 6.1.1. For non-emergency personnel

No additional information available

#### 6.1.2. For emergency responders

No additional information available

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

For containment : Collect spillage. Remove all sources of ignition. Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal. Provide ventilation.

### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection".

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed : Do not pierce or burn, even after use. Keep away from sources of ignition - No smoking. Hazardous waste due to potential risk of explosion.

Precautions for safe handling : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing. Do not breathe dust/fume/gas/mist/vapors/spray. Do not swallow. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Wear personal protective equipment. Handle and open container with care. When using do not eat or drink. Use only outdoors or in a well-ventilated area.

Hygiene measures : Wash contaminated clothing before reuse. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed.





According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

Storage conditions : Keep out of the reach of children. Store in a well-ventilated place. Keep cool. Do not expose to temperatures exceeding 50 °C/ 122 °F. Keep in fireproof place. Store away from direct sunlight or other heat sources. Store locked up.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Glue Genius Activator

No additional information available

#### Petroleum gases, liquefied (68476-85-7)

##### USA - ACGIH - Occupational Exposure Limits

ACGIH chemical category	Simple asphyxiant See Appendix F: Minimal Oxygen Content
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##### USA - OSHA - Occupational Exposure Limits

OSHA PEL (TWA) [1]	1800 mg/m <sup>3</sup>
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OSHA PEL (TWA) [2]	1000 ppm
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##### USA - IDLH - Occupational Exposure Limits

IDLH [ppm]	2000 ppm
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##### USA - NIOSH - Occupational Exposure Limits

NIOSH REL (TWA)	1800 mg/m <sup>3</sup>
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NIOSH REL TWA [ppm]	1000 ppm
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#### Naphtha (petroleum), hydrotreated light (64742-49-0)

No additional information available

#### Benzenamine, N,N,4-trimethyl- (99-97-8)

##### USA - AIHA - Occupational Exposure Limits

WEEL TWA [ppm]	0.5 ppm
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### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.  
 Environmental exposure controls : Avoid release to the environment.







According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

### 8.3. Individual protection measures/Personal protective equipment

#### Hand protection:

Wear suitable gloves

#### Eye protection:

Safety glasses or goggles are recommended when using product.

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

#### Other information:

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

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Aerosol.
Color	: Colorless
Odor	: Hydrocarbon
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Extremely flammable aerosol.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available





According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

Explosion limits : No data available  
Explosive properties : Pressurized container: may burst if heated.  
Oxidizing properties : No data available

## 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

### 10.2. Chemical stability

Stable under normal conditions. Extremely flammable aerosol. Contents under pressure. Container may explode if heated. Do not puncture. Do not burn. Extreme risk of explosion by shock, friction, fire or other sources of ignition.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Heat. No flames, no sparks. Eliminate all sources of ignition. Avoid contact with hot surfaces. Direct sunlight. Overheating. Incompatible materials.

### 10.5. Incompatible materials

Oxidizing agent.

### 10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon. Toxic fumes.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

#### Petroleum gases, liquefied (68476-85-7)

LC50 inhalation rat	658 mg/l/4h (Based on butane, isobutane)
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According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

**Naphtha (petroleum), hydrotreated light (64742-49-0)**

LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg body weight Animal: rabbit, Animal sex: male, 95% CL: 9,63 - 20,77
LC50 inhalation rat	73680 ppm/4h

**Benzenamine, N,N,4-trimethyl- (99-97-8)**

LD50 oral rat	1650 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat	1400 mg/m <sup>3</sup> (Exposure time: 4 h)

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Suspected of causing cancer.

**Benzenamine, N,N,4-trimethyl- (99-97-8)**

IARC group	2B - Possibly carcinogenic to humans
National Toxicology Program (NTP) Status	Evidence of Carcinogenicity
In OSHA Hazard Communication Carcinogen list	Yes

Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified

**Petroleum gases, liquefied (68476-85-7)**

LOAEC (inhalation, rat, gas, 90 days)	12000 ppm Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test), Guideline: other: OPPTS 870.3650 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
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**Naphtha (petroleum), hydrotreated light (64742-49-0)**

LOAEC (inhalation, rat, vapor, 90 days)	4.71 mg/l air Animal: rat, Guideline: EU Method B.29 (Sub-Chronic Inhalation Toxicity:90-Day Study)
NOAEC (inhalation, rat, vapor, 90 days)	2.355 mg/l air Animal: rat, Guideline: EU Method B.29 (Sub-Chronic Inhalation Toxicity:90-Day Study)

**Benzenamine, N,N,4-trimethyl- (99-97-8)**

STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
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Aspiration hazard	: May be fatal if swallowed and enters airways.
Viscosity, kinematic	: No data available





# SAFETY DATA SHEET

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

Symptoms/effects after inhalation	: May cause irritation to the respiratory tract.
Symptoms/effects after skin contact	: May cause skin irritation. Repeated exposure may cause skin dryness or cracking.
Symptoms/effects after eye contact	: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
Symptoms/effects after ingestion	: May be fatal if swallowed and enters airways. May result in aspiration into the lungs, causing chemical pneumonia.
Chronic symptoms	: Suspected of causing cancer.
Other information	: Likely routes of exposure: ingestion, inhalation, skin and eye.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : May cause long-term adverse effects in the aquatic environment.

#### Naphtha (petroleum), hydrotreated light (64742-49-0)

LC50 - Fish [1]	8.41 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	4.7 mg/l Test organisms (species): Daphnia magna

#### Benzenamine, N,N,4-trimethyl- (99-97-8)

LC50 - Fish [1]	42 – 50.5 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
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### 12.2. Persistence and degradability

#### Glue Genius Activator

Persistence and degradability	Not established.
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### 12.3. Bioaccumulative potential

#### Glue Genius Activator

Bioaccumulative potential	Not established.
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#### Petroleum gases, liquefied (68476-85-7)

Partition coefficient n-octanol/water	≤ 2.8
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#### Benzenamine, N,N,4-trimethyl- (99-97-8)

Partition coefficient n-octanol/water	2.81
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### 12.4. Mobility in soil

No additional information available





According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

#### 12.5. Other adverse effects

Other information : No other effects known.

### SECTION 13: Disposal considerations

#### 13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Additional information : Flammable vapors may accumulate in the container.

### SECTION 14: Transport information

In accordance with DOT

#### 14.1. UN number

DOT NA No : UN1950

#### 14.2. UN proper shipping name

Proper Shipping Name (DOT) : Aerosols

#### 14.3. Transport hazard class(es)

**DOT**

Transport hazard class(es) (DOT) : 2.1

Hazard labels (DOT) : 2.1



#### 14.4. Packing group

Packing group (DOT) : Not applicable

#### 14.5. Environmental hazards

Other information : No supplementary information available.

#### 14.6. Special precautions for user

Special transport precautions : Do not handle until all safety precautions have been read and understood.





According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

All components of this product are listed as Active, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

#### 15.2. International regulations

No additional information available

#### 15.3. US State regulations

**⚠ WARNING:** This product can expose you to Benzenamine, N,N,4-trimethyl-, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### SECTION 16: Other information

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

Issue date : 07/15/2021  
Revision date : 07/15/2021  
Other information : None.  
Prepared by : Nexreg Compliance Inc.  
[www.Nexreg.com](http://www.Nexreg.com)



Safety Data Sheet (SDS), USA

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