

SAFETY DATA SHEET



Revision date: 06-Jul-2015

Version: 1.0

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1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

Product Identifier

Material Name: GLUture Topical Tissue Adhesive

Trade Name: GLUture®
Synonyms: Topical Vet Adhesive
Chemical Family: Acrylate

Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Intended Use: Veterinary product used as adhesive
Restrictions on Use: Not for human use

Details of the Supplier of the Safety Data Sheet

Zoetis Inc.
100 Campus Drive, P.O. Box 651
Florham Park, New Jersey 07932 (USA)
Rocky Mountain Poison and Drug Center Phone: 1-866-531-8896
Product Support/Technical Services Phone: 1-800-366-5288

Zoetis Belgium S.A.
Mercuriusstraat 20
1930 Zaventem
Belgium

Emergency telephone number:
CHEMTREC (24 hours): 1-800-424-9300
Contact E-Mail: VMIPSrecords@zoetis.com

Emergency telephone number:
International CHEMTREC (24 hours): +1-703-527-3887

2. HAZARDS IDENTIFICATION

Appearance: Clear Purple Liquid

Classification of the Substance or Mixture

GHS - Classification

Skin Corrosion/Irritation: Category 2
Serious Eye Damage/Eye Irritation: Category 2A
Skin Sensitization: Category 1
Specific target organ systemic toxicity (single exposure): Category 3
Flammable liquids- Category 4

EU Classification:

EU Indication of danger: Not determined

Label Elements

Signal Word: Warning
Hazard Statements: H227 - Combustible liquid
H319 - Causes serious eye irritation
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H335 - May cause respiratory irritation

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Precautionary Statements:

- P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
- P280 - Wear protective gloves/protective clothing/eye protection/face protection
- P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
- P271 - Use only outdoors or in a well-ventilated area
- P264 - Wash hands thoroughly after handling
- P272 - Contaminated work clothing should not be allowed out of the workplace
- P233 - Keep container tightly closed
- P370 + P378 - In case of fire: Use dry chemical, CO₂, or alcohol foam for extinction
- P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- P312 - Call a POISON CENTRE/doctor/physician if you feel unwell
- 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
- P302+ P352 - IF ON SKIN: Wash with plenty of soap and water
- P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention
- P362 - Take off contaminated clothing and wash before reuse
- P403 + P235 - Store in a well-ventilated place. Keep cool
- P405 - Store locked up
- P501 - Dispose of contents/container in accordance with all local and national regulations

Other Hazards

Short Term:

Causes eye irritation . Signs and symptoms might include redness, swelling, blurred vision or pain. Causes skin irritation. May cause allergic skin reaction . Signs and symptoms might include skin rash, itching, redness or swelling. May cause mucous membrane and respiratory tract irritation. May be harmful if swallowed.

Australian Hazard Classification (NOHSC):

Hazardous Substance. Non-Dangerous Goods.

Note:

This document has been prepared in accordance with standards for workplace safety, which requires the inclusion of all known hazards of the product or its ingredients regardless of the potential risk. The precautionary statements and warning included may not apply in all cases. Your needs may vary depending upon the potential for exposure in your workplace.

Additional Information:

For a more detailed discussion of potential health hazards and toxicity see Section 11.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	GHS Classification	%
2-Octyl Cyanoacrylate	133978-15-1	Not Listed	Not Listed	Not Listed	<90
N-Butyl Cyanoacrylate	6606-65-1	229-552-2	Not Listed	Not Listed	<90

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	GHS Classification	%
D&C Violet #2	81-48-1	201-353-5	Not Listed	Not Listed	<0.01

Additional Information:

Ingredient(s) indicated as hazardous have been assessed under standards for workplace safety. In accordance with 29 CFR 1910.1200, the exact percentage composition of this mixture has been withheld as a trade secret.

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4. FIRST AID MEASURES

Description of First Aid Measures

- Eye Contact:** Flush eyes continuously with water for at least 15 minutes and obtain immediate medical attention. If residual adhesive remains, apply topical ophthalmic ointment to help loosen the bond. Do not pull eye lids apart.
- Skin Contact:** Wash off immediately with plenty of soap and water for at least 15 minutes. Obtain medical advice/assistance immediately. If unintended bonding of skin tissue occurs, peel of the adhesive, but do not pull skin apart. Application of petroleum jelly or acetone may help loosen the bond. As the epidermal layer grows, the adhesive will naturally slough off.
- Ingestion:** Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately. Product will polymerize rapidly adhering to the mouth. Ensure breathing passages are clear. Saliva will separate any solidified product within two days. Prevent accidental swallowing.
- Inhalation:** Remove to fresh air and keep patient at rest. Seek medical attention immediately.

Most Important Symptoms and Effects, Both Acute and Delayed

- Symptoms and Effects of Exposure:** For information on potential signs and symptoms of exposure, See Section 2 - Hazards Identification and/or Section 11 - Toxicological Information.
- Medical Conditions Aggravated by Exposure:** Individuals with a known history of hypersensitivity to this material or other materials in its chemical class.

Indication of the Immediate Medical Attention and Special Treatment Needed

- Notes to Physician:** None

5. FIRE-FIGHTING MEASURES

- Extinguishing Media:** Carbon dioxide, dry powder, or foam. Do not use water.
- Special Hazards Arising from the Substance or Mixture**
- Hazardous Combustion Products:** May emit toxic fumes during fires. May emit oxides of carbon, nitrogen, and hydrogen cyanide.
- Fire / Explosion Hazards:** Combustible liquid. May present a fire hazard under fire conditions. May generate flammable vapors. Vapors will form flammable or explosive mixtures with air at room temperature. Vapors are heavier than air and may travel along surfaces to remote ignition sources and flash back. Fine particles (such as mists) may fuel fires/explosions.

Advice for Fire-Fighters

During all fire fighting activities, wear appropriate protective equipment, including self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Ensure adequate ventilation. Personnel must wear appropriate protective equipment (see Section 8). Prevent exposure by any route.

Environmental Precautions

Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to avoid environmental release.

Methods and Material for Containment and Cleaning Up

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Measures for Cleaning / Collecting:	Eliminate possible ignition sources (e.g., heat, sparks, flame, impact, friction, electricity), and follow appropriate grounding procedures. Contain the source of spill if it is safe to do so. Collect spill with absorbent material. Clean spill area thoroughly. Prevent discharge to drains.
Additional Consideration for Large Spills:	Non-essential personnel should be evacuated from affected area. Report emergency situations immediately. Clean up operations should only be undertaken by trained personnel. Provide adequate ventilation. Contain the source of the spill or leak and shut off all electrical equipment if it is safe to do so. Eliminate possible ignition sources (e.g., heat, sparks, flame, impact, friction, electricity), and follow appropriate grounding procedures. Collect spill with a non-combustible absorbent material and transfer to labeled container for disposal. Clean spill area thoroughly. Prevent runoff from entering waterways or sewers. Prevent discharge to drains.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Combustible liquid. Eliminate possible ignition sources (e.g., heat, sparks, flame, impact, friction, electricity), and follow appropriate grounding and bonding procedures. Use with adequate ventilation. Minimize generating airborne mists and vapors. Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. When handling, use appropriate personal protective equipment (see Section 8). Wash thoroughly after handling. Releases to the environment should be avoided.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions:	Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat, sparks, flame, and other sources of ignition. Protect from moisture and humidity. Store away from direct sunlight. Store as directed by product packaging. Keep out of reach of children.
Storage Temperature:	Store at or below 30°C (86°F).
Incompatible Materials:	Reacts with water, Bases / alkalis, Amines, cotton (polymerizes). As a precautionary measure, keep away from strong oxidizers, strong acids.
Specific end use(s):	No data available

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

Refer to available public information for specific member state Occupational Exposure Limits.

N-Butyl Cyanoacrylate

Finland OEL - TWA	0.2 ppm 1 mg/m ³
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Exposure Controls

Engineering Controls:	Engineering controls should be used as the primary means to control exposures. Use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.
Personal Protective Equipment:	Refer to applicable national standards and regulations in the selection and use of personal protective equipment (PPE).
Hands:	Wear impervious gloves if skin contact is possible.
Eyes:	Wear safety glasses or goggles if eye contact is possible.
Skin:	Use protective clothing (uniforms, lab coats, disposable coveralls, etc.) in both production and laboratory areas.
Respiratory protection:	None required under normal conditions of use. Whenever air contamination (mist, vapor or odor) is generated, respiratory protection is recommended as a precaution to minimize exposure. If the applicable Occupational Exposure Limit (OEL) is exceeded, wear an appropriate respirator with a protection factor sufficient to control exposures to below the OEL.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid	Color:	Clear Purple
Odor:	Pungent	Odor Threshold:	No data available.
Molecular Formula:	Mixture	Molecular Weight:	Mixture

Solvent Solubility:	No data available
Water Solubility:	Insoluble (polymerizes in the presence of water)
pH:	No data available.
Melting/Freezing Point (°C):	No data available
Boiling Point (°C):	83-84C / 181.4-183.2F @ 3 mm Hg
Partition Coefficient: (Method, pH, Endpoint, Value)	
Decomposition Temperature (°C):	No data available.

Evaporation Rate (Gram/s):	No data available
Vapor Pressure (kPa):	<0.4 mm Hg @ 25C/77F
Vapor Density (g/ml):	No data available
Relative Density:	No data available
Specific Gravity:	1.0 @ 20C/68F
Viscosity:	No data available

Flammability:	
Autoignition Temperature (Solid) (°C):	No data available
Flammability (Solids):	No data available
Flash Point (Liquid) (°C):	>85C/185F
Upper Explosive Limits (Liquid) (% by Vol.):	No data available
Lower Explosive Limits (Liquid) (% by Vol.):	No data available
Polymerization:	Polymerization can occur.

10. STABILITY AND REACTIVITY

Reactivity:	No data available
Chemical Stability:	Stable under normal conditions of use.
Possibility of Hazardous Reactions	
Oxidizing Properties:	Non-oxidizing
Conditions to Avoid:	Avoid moisture, heat, flames, sparks, and other sources of ignition. Exposure to sunlight.
Incompatible Materials:	Reacts with water , Bases / alkalies , Amines , cotton (polymerizes) . As a precautionary measure, keep away from strong oxidizers , strong acids .
Hazardous Decomposition Products:	Thermal decomposition products may include carbon monoxide, carbon dioxide and other toxic vapors. Thermal decomposition products may include oxides of nitrogen and Hydrogen cyanide (hydrocyanic acid) .

11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

General Information: Toxicological properties of the formulation have not been investigated. The information in this section describes the potential hazards of the individual ingredients and the formulation.
Routes of exposure: eye contact , skin contact

Acute Toxicity: (Species, Route, End Point, Dose)

2-Octyl Cyanoacrylate

Rat Oral LD50 > 5000 mg/kg (analagous compound)

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11. TOXICOLOGICAL INFORMATION

N-Butyl Cyanoacrylate

Rat Oral LD50 > 5000 mg/kg (analagous compound)

Acute Toxicity Comments: A greater than symbol (>) indicates that the toxicity endpoint being tested was not achievable at the highest dose used in the test.

Inhalation Acute Toxicity May cause respiratory tract and mucous membrane irritation

Ingestion Acute Toxicity May be harmful if swallowed

Irritation / Sensitization: (Study Type, Species, Severity)

2-Octyl Cyanoacrylate

Skin Irritation Rabbit Non-irritating

Skin Sensitization - GPMT Guinea Pig Negative

N-Butyl Cyanoacrylate

Skin Irritation Rabbit Slight Irritant

Skin Sensitization - Beuhler Guinea Pig Positive

Skin Sensitization - Beuhler Guinea Pig Negative

Skin Sensitization - GPMT Guinea Pig Negative

Irritation / Sensitization Comments: May cause eye irritation. May cause eye lids to bond.

Skin Irritation / Sensitization May cause skin irritation. Will bond skin. May cause burns if dropped on clothing in contact with skin. May cause allergic reactions in susceptible individuals.

Genetic Toxicity: (Study Type, Cell Type/Organism, Result)

N-Butyl Cyanoacrylate

Bacterial Mutagenicity (Ames) *Salmonella* Negative with activation , without activation (at cytotoxic levels)

In Vitro Chromosome Aberration Human Lymphocytes Negative with activation , without activation

In Vivo Micronucleus Mouse Negative

Carcinogen Status: None of the components of this formulation are listed as a carcinogen by IARC, NTP or OSHA.

12. ECOLOGICAL INFORMATION

Environmental Overview: Environmental properties of the formulation have not been investigated. Releases to the environment should be avoided.

Toxicity: No data available

Persistence and Degradability: No data available

Bio-accumulative Potential: No data available

Mobility in Soil: No data available

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13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods:

Dispose of waste in accordance with all applicable laws and regulations. Member State specific and Community specific provisions must be considered. Considering the relevant known environmental and human health hazards of the material, review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental releases. This may include destructive techniques for waste and wastewater.

14. TRANSPORT INFORMATION

This material is not regulated for transportation per IATA, IMDG or ADR .

U.S. DOT: This material is only regulated for transportation as a hazardous material/dangerous good when shipped in bulk packages (>= 450L/119 gal. per package)

DOT

DOT UN / ID No: NA1993
DOT Proper shipping name: Combustible Liquid, n.o.s. (2-Octyl Cyanoacrylate, N-Butyl Cyanoacrylate)
DOT Hazard Class: Comb liq.
DOT Packing Group: III

Requirements for combustible liquids do not apply to a material classed as a combustible liquid in a non-bulk packaging unless the combustible liquid is a hazardous substance, a hazardous waste, or a marine pollutant. See 49 CFR 173.150 for details.

15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

Canada - WHMIS: Classifications

WHMIS hazard class:

Class D, Division 2, Subdivision B

This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all of the information required by the CPR.



2-Octyl Cyanoacrylate

CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
Inventory - United States TSCA - Sect. 8(b)	Present
EU EINECS/ELINCS List	Not Listed

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15. REGULATORY INFORMATION

N-Butyl Cyanoacrylate

CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
EU EINECS/ELINCS List	229-552-2

D&C Violet #2

CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
EU EINECS/ELINCS List	201-353-5

16. OTHER INFORMATION

Data Sources: The data contained in this SDS may have been gathered from confidential internal sources, raw material suppliers, or from the published literature.

Reasons for Revision: New data sheet.

Prepared by: Toxicology and Hazard Communication
Zoetis Global Risk Management

Zoetis Inc. believes that the information contained in this Safety Data Sheet is accurate, and while it is provided in good faith, it is without warranty of any kind, expressed or implied. If data for a hazard are not included in this document there is no known information at this time.

End of Safety Data Sheet