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## Safety Data Sheet acc. to OSHA HCS

Printing date 07/02/2024

Version 2.0

Last revision 06/01/2024

## **1** Identification

- · Product name: LOCTITE® 454<sup>TM</sup> Gel Adhesive
- · Part number: 71-40045G
- · Application of the substance / the mixture Adhesives
- · Details of the supplier of the safety data sheet

• Manufacturer/Supplier: Allied High Tech Products Inc. 16207 Carmenita Road USA-Cerritos, CA, 90703 USA info@alliedhightech.com

· Information department: Product safety department

• Emergency telephone number: During normal opening times: +1 (310) 635-2466 Chemtrec: +1 (202) 483-7616

# 2 Hazard(s) identification

#### · Classification of the substance or mixture



Skin Irritation 2	H315 Causes skin irritation.
Eye Irritation 2A	H319 Causes serious eye irritation.
Specific Target Organ Toxicity - Single Exposure 3	B H335 May cause respiratory irritation.
Flammable Liquids 4	H227 Combustible liquid.

· Label elements

· GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms



· Signal word Warning

- · Hazard-determining components of labeling:
- ethyl 2-cyanoacrylate
- · Hazard statements
- Combustible liquid.
- Causes skin irritation.
- Causes serious eye irritation.

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May cause respiratory irritation.	
· Precautionary statements	
Keep away from flames and hot surfaces. – No smoking.	
Avoid breathing dust/fume/gas/mist/vapors/spray	
Wash thoroughly after handling.	
Use only outdoors or in a well-ventilated area.	
Wear protective gloves/protective clothing/eye protection/face protection.	
If on skin: Wash with plenty of water.	
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	
Call a poison center/doctor if you feel unwell.	
Specific treatment (see on this label).	
Take off contaminated clothing and wash it before reuse.	
If skin irritation occurs: Get medical advice/attention.	
If eye irritation persists: Get medical advice/attention.	
In case of fire: Use CO2, powder or water spray to extinguish.	
Store in a well-ventilated place. Keep container tightly closed.	
Store in a well-ventilated place. Keep cool.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/international regulations.	
Composition/information on increations	

# 3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- $\cdot$  **Description:** Mixture of the substances listed below with nonhazardous additions.

· Hazardous components and components with occupational exposure limits:	
7085-85-0 ethyl 2-cyanoacrylate	70-100%
Skin Irritation 2, H315; Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H335	1
· Non-hazardous components:	
67762-90-7 Treated fumed silica	1-10%

· Additional information: The specific chemical identity and/or exact percentage of the composition has been withheld as a trade secret.

## 4 First-aid measures

- · Description of first aid measures
- $\cdot$  General information: Immediately remove any clothing soiled by the product.
- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- After skin contact:
- If skin is bonded, immediately wash with water and soap and rinse thoroughly.
- Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:

If eyelids are bonded, immediately wash with warm water. Do not force eye open. Eye proteins will help to debond the adhesive. Keep eye covered until the debonding is complete, usually within 1-3 days.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed
- Dizziness
- Nausea
- Dermatitis
- Eye irritation

· Indication of any immediate medical attention and special treatment needed No further relevant information available.

#### 5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents: CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · Special hazards arising from the substance or mixture No further relevant information available.

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· Advice for firefighters

· Protective equipment: Wear fully protective suit.

## 6 Accidental release measures

• **Personal precautions, protective equipment and emergency procedures** Ensure adequate ventilation

Keep away from ignition sources

- · Environmental precautions: No special measures required.
- **Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.

#### · Reference to other sections

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

· Handling:

· Precautions for safe handling

Protect from heat and direct sunlight.

Ensure proper ventilation/exhaustion at workplaces.

Prevent formation of aerosols.

· 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 at temperatures not exceeding 2°C.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions:

Keep receptacle tightly sealed.

Store receptacle in a well ventilated area.

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

#### 8 Exposure controls/personal protection

· Additional information about design of technical systems: No additional data. See 7.

#### · Control parameters

· Components with limit values that require monitoring at the workplace:
7085-85-0 ethyl 2-cyanoacrylate
TLV Short-term value: 1 ppm Long-term value: 0.2 ppm DSEN, RSEN
· Exposure controls

#### · Personal protective equipment:

• General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eves and skin.

· Breathing equipment: Use suitable respiratory protective device when high concentrations are present.

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· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

#### Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### Eye protection:



Tightly sealed goggles

# 9 Physical and chemical properties

· Information on basic physical and chemical properties		
· General Information		
· Appearance:		
Form:	Pasty	
Color:	Clear	
· Odor:	Characteristic	
· Odor threshold:	Not determined.	
· pH-value:	Not determined.	
· Change in condition		
Melting point/Melting range:	Undetermined.	
<b>Boiling point/Boiling range:</b>	>149 °C (>300.2 °F)	
· Flash point:	80-93 °C (176-199.4 °F)	
· Flammability (solid, gaseous):	Not applicable.	
· Auto igniting:	485 °C (905 °F)	
· Decomposition temperature:	Not determined.	
· Ignition temperature:	Product is not selfigniting.	
• Danger of explosion:	Not determined.	
· Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
· Vapor pressure at 20 °C (68 °F):	0.3 hPa (0.2 mm Hg)	
· Density:	Not determined.	
· Relative density	Not determined.	
· Vapor density	3	
· Specific gravity:	1.1	
· Evaporation rate	Not determined.	
<ul> <li>Solubility in / Miscibility with Water:</li> </ul>	Not miscible or difficult to mix.	
· Partition coefficient (n-octanol/wate	r): Not determined.	

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· Viscosity: Dynamic: Kinematic:	Not determined. Not determined.
· Solvent content: VOC content:	0.00 %
Solids content:	10.1 %
• Other information	No further relevant information available.

#### 10 Stability and reactivity

· Reactivity No further relevant information available.

- · Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions
- Reacts with water.
- Reacts with strong alkali.
- Reacts with amines.
- Reacts with alcohols.
- Danger of polymerization.
- Conditions to avoid
- Water
- Alcohol

Do not mix with alkalis.

- · Incompatible materials: Amines
- · Hazardous decomposition products: No dangerous decomposition products known.

## 11 Toxicological information

- · Information on toxicological effects
- Acute toxicity:
- · Primary chemical irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- · Sensitization: No sensitizing effects known.
- Additional toxicological information:

#### · Carcinogenic categories

#### · IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

#### ·NTP (National Toxicology Program)

None of the ingredients is listed.

## · OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

# 12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:

Water hazard class 2 (Self-assessment): hazardous for water

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Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

- Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- Other adverse effects No further relevant information available.

## 13 Disposal considerations

- $\cdot$  Waste treatment methods
- · Recommendation: Contact waste processors for recycling information.
- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.

14 Transport information	
· UN-Number · DOT, ADN, IMDG, IATA	not regulated
<ul> <li>UN proper shipping name</li> <li>DOT, ADN, IMDG, IATA</li> </ul>	not regulated
· Transport hazard class(es)	
· DOT, ADN, IMDG, IATA · Class	not regulated
· Packing group · DOT, IMDG, IATA	not regulated
· Environmental hazards:	Not applicable.
· Special precautions for user	Not applicable.
• Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.	
· UN "Model Regulation":	not regulated

# 15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available. • Sara
• Sara • Section 355 (extremely hazardous substances):
None of the ingredients is listed.
· Section 313 (Specific toxic chemical listings):
None of the ingredients is listed.
· TSCA (Toxic Substances Control Act):
All components have the value ACTIVE.
· Hazardous Air Pollutants
None of the ingredients is listed.
· Proposition 65
· Chemicals known to cause cancer:
None of the ingredients is listed.
· Chemicals known to cause reproductive toxicity for females:
None of the ingredients is listed.
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None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

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· Chemicals known to cause developmental toxicity:	
None of the ingredients is listed.	
· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.	
16 Other information	
To the best of our knowledge, the information contained herein is accurate. However, it does not describe a guarantee of product properties and does not establish a contractual legal relationship.	5
· Department issuing SDS: Technical Services	
· Contact: Pablo Mendoza	
· Last revision / supersedes version: 06/01/2024 / 1.0	
· Supersedes date: 06/01/2022	
· Abbreviations and acronyms:	
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by	/
Road)	
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)	
VOC: Volatile Organic Compounds (USA, EU)	

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

OSHA: Occupational Safety & Health TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Flammable Liquids 4: Flammable liquids - Category 4

Skin Irritation 2: Skin corrosion/irritation – Category 2 Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3

• \* Data compared to the previous version altered.