

# MSDS056

# 425 Assure™ Instant Adhesive Surface Curing Threadlocker

# MATERIAL SAFETY DATA SHEET

# **Chemical Product and Company Identification**

LABEL IDENTIFIER: 25 Assure™ Instant Adhesive Surface Curing Threadlocker

PRODUCT IDENTIFIER: P/N 602706 Adhesive, Assure™

COMPANY IDENTIFICATION: MINE SAFETY APPLIANCES COMPANY

1100 Cranberry Woods Drive Cranberry Township, PA 16066

CUSTOMER SERVICE: 1-800-MSA-2222 (8:30 a.m. - 5:00 p.m., USA local time)

EMERGENCY: 1-800-255-3924 (CHEM-TEL, INC.)

### **Vendor Information**

A Material Safety Data Sheet as furnished by Loctite for 425 Assure™ Instant Adhesive Surface Curing Threadlocker is attached (5 Pages).

Loctite MSDS REVISION DATE: 02/04/2009

## Other Information

WARNING: This is a hazardous chemical product. By following the directions and warnings provided with this product, the hazards associated with the use of this product can be greatly reduced but never entirely eliminated. Mine Safety Appliances Company makes no warranties, expressed or implied, with respect to this product and EXPRESSLY DISCLAIMS THE WARRANTY OF MERCHANTABILITY AND ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. Users assume all risks in handling, using, or storing this product.

Revision 2: 07-03-2012 Page 1 of 1





Revision Number: 001.1 Issue date: 02/04/2009

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: 425 Assure(TM) Instant Adhesive IDH i

**Surface Curing Threadlocker** 

Product type: Cyanoacrylate

Cyanoacrylate

Henkel Corporation 1001 Trout Brook Crossing Rocky Hill, Connecticut 06067

Company address:

**IDH number:** 233971

**Item number:** 42561 **Region:** United States

Contact information: Telephone: 860.571.5100

Emergency telephone: 860.571.5100 Internet: www.henkelna.com

# 2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW** 

HMIS:

Physical state:LiquidHEALTH:2Color:BlueFLAMMABILITY:2Odor:Sharp, IrritatingPHYSICAL HAZARD:1

Personal Protection: See MSDS Section 8

WARNING: BONDS SKIN IN SECONDS.

MAY CAUSE EYE AND RESPIRATORY TRACT IRRITATION.

COMBUSTIBLE LIQUID AND VAPOR.

Relevant routes of exposure: Skin, Inhalation, Eyes

**Potential Health Effects** 

Inhalation: Exposure to vapors above the established exposure limit results in respiratory irritation, which

may lead to difficulty in breathing and tightness in the chest.

Skin contact: Bonds skin in seconds. May cause skin irritation. Cyanoacrylates have been reported to cause

allergic reaction but due to rapid polymerization at the skin surface, an allergic response is rare. Cyanoacrylates generate heat on solidification. In rare circumstances a large drop will burn the

skin. Cured adhesive does not present a health hazard even if bonded to the skin.

Eye contact: Irritating to eyes. Causes excessive tearing. Eyelids may bond.

Ingestion: Not expected to be harmful by ingestion. Rapidly polymerizes (solidifies) and bonds in mouth. It

is almost impossible to swallow.

Existing conditions aggravated by

exposure:

IDH number: 233971

Eye, skin, and respiratory disorders.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR

1910.1200).

See Section 11 for additional toxicological information.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NUMBER	%
Ethyl 2-cyanoacrylate	7085-85-0	30 - 60
1,2-Ethanediol, diacetate	111-55-7	30 - 60
2-Propenoic acid, 2-methyl-, methyl ester, homopolymer	9011-14-7	5 - 10

# 4. FIRST AID MEASURES

Inhalation: Move to fresh air. If symptoms persist, seek medical advice.

**Skin contact:** Do not pull bonded skin apart. Soak in warm soapy water. Gently peel apart

using a blunt instrument. If skin is burned due to the rapid generation of heat by a large drop, seek medical attention. If lips are bonded, apply warm water to the lips and encourage wetting and pressure from saliva in mouth. Peel or

roll lips apart. Do not pull lips apart with direct opposing force.

**Eye contact:** Immediately flush with plenty of water for at least 15 minutes. Get medical

attention. If eyelids are bonded closed, release eyelashes with warm water by covering with a wet pad. Do not force eye open. Cyanoacrylate will bond to eye protein and will cause a lachrymatory effect which will help to debond the adhesive. Keep eye covered until debonding is complete, usually within 1-3 days. Medical attention should be sought in case solid particles of polymerized

cyanoacrylate trapped behind the eyelid caused abrasive damage.

**Ingestion:** Ensure breathing passages are not obstructed. The product will polymerize

rapidly and bond to the mouth making it almost impossible to swallow. Saliva will separate any solidified product in several hours. Prevent the patient from

swallowing any separated mass.

Notes to physician: Surgery is not necessary to separate accidentally bonded tissues. Experience

has shown that bonded tissues are best treated by passive, non-surgical first aid. If rapid curing has caused thermal burns they should be treated

symptomatically after adhesive is removed.

### 5. FIRE FIGHTING MEASURES

Flash point: 80 - 93.3 °C (176°F - 199.94 °F) Tagliabue closed cup

Autoignition temperature: Not determined

Flammable/Explosive limits - lower: Not determined

Flammable/Explosive limits - upper: Not determined

**Extinguishing media:** Water spray or fog. Dry powder. Foam. Carbon dioxide.

Special firefighting procedures: Wear a self-contained breathing apparatus with a full face piece operated in

pressure-demand or other positive pressure mode.

Unusual fire or explosion hazards: None

Hazardous combustion products: Trace amounts of toxic and/or irritating fumes may be released and the use of

breathing apparatus is recommended.

### 6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions: Ventilate area. Do not allow product to enter sewer or waterways.

Clean-up methods: Do not use cloths for mopping up. Flood with water to complete polymerization

and scrape off the floor. Cured material can be disposed of as non-hazardous

waste.

## 7. HANDLING AND STORAGE

Handling: Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist.

Wash thoroughly after handling. Avoid contact with fabric or paper goods. Contact with these materials may cause rapid polymerization which can generate smoke and strong irritating vapors, and cause thermal burns.

Storage:

Keep in a cool, well ventilated area away from heat, sparks and open flame.

Keep container tightly closed until ready for use.

For information on product shelf life contact Henkel Customer Service at (800) 243-4874.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Ethyl 2-cyanoacrylate	0.2 ppm TWA	None	None	None
1,2-Ethanediol, diacetate	None	None	None	None
2-Propenoic acid, 2-methyl-, methyl ester, homopolymer	None	None	None	None

Engineering controls: Use positive down-draft exhaust ventilation if general ventilation is insufficient

to maintain vapor concentration below established exposure limits.

Respiratory protection: Use NIOSH approved respirator if there is potential to exceed exposure

limit(s).

**Eye/face protection:** Safety goggles or safety glasses with side shields.

**Skin protection:** Use nitrile gloves and aprons as necessary to prevent contact. Do not use

PVC, nylon or cotton.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid Color: Blue

Odor:
Odor threshold:
PH:
Not available
Not applicable
Vapor pressure:
Valing point/range:
Valing point/ra

Melting point/ range:

Specific gravity:

1.1 at 23.9 °C (75.02 °F)

Vapor density: 3 Approximately

Flash point: 80 - 93.3 °C (176°F - 199.94 °F) Tagliabue closed cup

Flammable/Explosive limits - lower:
Flammable/Explosive limits - upper:
Autoignition temperature:

Evaporation rate:

Not determined
Not determined
Not available

**Solubility in water:** Polymerises in presence of water. **Solubility in water:** Polymerises in presence of water.

Partition coefficient (n-octanol/water): Not applicable

VOC content: < 2 %; < 20 g/l (California SCAQMD Method 316B) (Estimated)

#### 10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions.

Hazardous reactions: Rapid exothermic polymerization will occur in the presence of water, amines,

alkalis and alcohols.

Hazardous decomposition products: None

IDH number: 233971

**Incompatible materials:** Water, amines, alkalis and alcohols.

Conditions to avoid: Spontaneous polymerization.

### 11. TOXICOLOGICAL INFORMATION

Acute oral product toxicity: LD50 (rat) > 5,000 mg/kg (Estimated)

Product name: 425 Assure(TM) Instant Adhesive Surface Curing Threadlocker

Page 3 of 5

Acute dermal product toxicity: LD50 (rabbit) > 2,000 mg/kg (Estimated)

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Ethyl 2-cyanoacrylate	No	No	No
1,2-Ethanediol, diacetate	No	No	No
2-Propenoic acid, 2-methyl-, methyl ester, homopolymer	No	No	No

Hazardous components	Health Effects/Target Organs
Ethyl 2-cyanoacrylate	Irritant, Allergen, Respiratory
1,2-Ethanediol, diacetate	Central nervous system, Irritant, Kidney
2-Propenoic acid, 2-methyl-, methyl ester, homopolymer	Irritant

### 12. ECOLOGICAL INFORMATION

**Ecological information:** Not known.

# 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Follow all local, state, federal and provincial regulations for disposal.

Hazardous waste number: Not a RCRA hazardous waste.

#### 14. TRANSPORT INFORMATION

U.S. Department of Transportation Ground (49 CFR)

**Proper shipping name:** Combustible liquid, n.o.s. (Cyanoacrylate ester)

Hazard class or division: Combustible Liquid

Identification number: NA 1993 Packing group: III

**Exceptions:** (Not more than 450 Liters), Unrestricted

International Air Transportation (ICAO/IATA)

**Proper shipping name:** Aviation regulated liquid, n.o.s. (Cyanoacrylate ester)

Hazard class or division: 9

Identification number: UN 3334
Packing group: None

Exceptions: Primary packs containing less than 500ml are unregulated by this mode of

transport and may be shipped unrestricted.

Water Transportation (IMO/IMDG)

Proper shipping name: Not regulated Hazard class or division: None Identification number: None

Packing group: None

## 15. REGULATORY INFORMATION

**United States Regulatory Information** 

IDH number: 233971

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act

Inventory.

TSCA 12(b) Export Notification: None above reporting de minimus

CERCLA/SARA Section 302 EHS: None above reporting de minimus

CERCLA/SARA Section 311/312: Immediate Health, Delayed Health, Fire, Reactive

CERCLA/SARA 313: None above reporting de minimus

California Proposition 65: This product contains a chemical known in the State of California to cause cancer. This

product contains a chemical known to the State of California to cause birth defects or other

reproductive harm.

**Canada Regulatory Information** 

IDH number: 233971

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Canadian Domestic

Substances List.

WHMIS hazard class: B.3, D.2.B

#### 16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: New Material Safety Data Sheet format. 15

Prepared by: Kyra Kozak Woods, Manager, Regulatory Affairs

DISCLAIMER: The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Corporation does not assume responsibility for any results obtained by persons over whose methods Henkel Corporation has no control. It is the user's responsibility to determine the suitability of Henkel's products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any of Henkel Corporation's products. In light of the foregoing, Henkel Corporation specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel Corporation's products. Henkel Corporation further disclaims any liability for consequential or incidental damages of any kind, including lost profits.