

SAFETY DATA SHEET

Safety Data Sheet according to regulation (EC) No 1907/2006 & 1272/2008 and amendments

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

Product Identifier: AEROFIX 3
Product Description: Adhesive

RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Intended/Recommended Use: Engineered materials

DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Company: Cytec Industries Inc., 504 CARNEGIE CENTER, PRINCETON, NEW JERSEY 08540, USA.
For Product and all Non-Emergency Information call 1-800/652-6013. Outside the USA and Canada call +1-973/357-3193 or your local Cytec contact point. E-mail: custinfo@solvay.com.

Local Contact Information: Cytec Industries Inc., Abenbury Way, Wrexham Industrial Estate, Wrexham Clwyd LL139UZ, GB
Telephone: +44 1-97866-5200

EMERGENCY PHONE (24 hours/day) - For emergency only involving spill, leak, fire, exposure or accident call:

Asia Pacific:

Australia - +61 2 8014 4558 (Carechem24)
China (PRC) - +86 0532 83889090 (NRCC) +86 512 8090 3042 (Carechem24)
New Guinea - +61 2 8014 4558 (Carechem24)
New Zealand - +64 9 929 1483 (Carechem24)
India, Japan, Korea, Malaysia, Thailand - +65 3158 1074 (Carechem24 Singapore)
India (Hindi Speaking Only) - +65 3158 1198 or 000800 100 7479 (Carechem24 Singapore)

Canada: 800 424 9300 (Within US,Canada) +1 (703) 527-3887 (International)

Europe/Africa/Middle East (Carechem24 UK):

Europe, Middle East, Africa, Israel - +44 1235 239 670
(Arabic speaking countries) - +44 1235 239 671

Latin America:

Brazil - +55 11 3197 5891 (Carechem24)
Chile - +56 2 2582 9336 (Carechem24)
All Others - +44 (0) 1235 239 670 (Carechem24 UK)

USA: 800 424 9300 (Within US,Canada) +1 (703) 527-3887 (International)

2. HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Classification according to Regulation (EC) No 1272/2008 and amendments

2. HAZARDS IDENTIFICATION

Aerosol Hazard Category 1

Specific Target Organ Toxicity (STOT) - Single Exposure Hazard Category 3

Serious Eye Damage / Eye Irritation Hazard Category 2

Skin Sensitizer Hazard Category 1

LABEL ELEMENTS



Signal Word

Danger

Hazard Statements

H222 - Extremely flammable aerosol.

H229 - Pressurized container: May burst if heated.

H336 - May cause drowsiness or dizziness.

H319 - Causes serious eye irritation.

H317 - May cause an allergic skin reaction.

EUH066 - Repeated exposure may cause skin dryness or cracking.

Precautionary Statements

Precautionary statements on the label will be reduced as indicated in Regulation (EC) No 1272/2008, Article 28.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 - Do not spray on an open flame or other ignition source.

P251 - Do not pierce or burn, even after use.

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

P271 - Use only outdoors or in a well-ventilated area.

P264 - Wash face, hands and any exposed skin thoroughly after handling.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P272 - Contaminated work clothing should not be allowed out of the workplace.

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 - Call a POISON CENTER or 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.

P321 - Specific treatment (see supplemental first aid instructions on this label).

P362 + P364 - Take off contaminated clothing and wash it before reuse.

P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

P405 - Store locked up.

P501 - Dispose of contents/container in accordance with local and national regulations.

OTHER HAZARDS

Not applicable

RESULTS OF PBT AND vPvB ASSESSMENT

Not determined

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance, Mixture or Article? Mixture

Component / CAS No.	%	EC-No	REACH Registration Number	Classification according to Regulation (EC) No 1272/2008 (CLP)	M-Factor	SVHC
Dimethyl ether 115-10-6	40 - 50	204-065-8	Not available	Flam. Gas 1 (H220) U Press. Gas U		
Rosin; colophony 8050-09-7	1-5	232-475-7	Not available	Skin Sens. 1 (H317)		
Acetone 67-64-1	20-40	200-662-2	Not available	Flam. Liq. 2 (H225) STOT SE 3 (H336) Eye Irrit. 2 (H319)		

See Section 16 for full text of H phrases.

4. FIRST AID MEASURES

DESCRIPTION OF FIRST AID MEASURES

Eye Contact:

Rinse immediately with plenty of water for at least 15 minutes. Obtain medical advice if there are persistent symptoms.

Skin Contact:

Remove contaminated clothing and shoes without delay. Wash immediately with plenty of water. Do not reuse contaminated clothing without laundering. Get medical attention if pain or irritation persists after washing or if signs and symptoms of overexposure appear.

Ingestion:

If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

Inhalation:

Remove to fresh air. If breathing is difficult, give oxygen. Obtain medical advice if there are persistent symptoms.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

None known

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDS

Not applicable

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Suitable Extinguishing Media:

Use water spray, alcohol foam, carbon dioxide or dry chemical to extinguish fires. Water stream may be ineffective.

SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Thermal decomposition can lead to release of irritating gases and vapors. Potential pressure build-up may burst closed containers.

ADVICE FOR FIREFIGHTERS

Protective Equipment:

Firefighters, and others exposed, wear self-contained breathing apparatus. Wear full firefighting protective clothing. See MSDS Section 8 (Exposure Controls/Personal Protection).

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Where exposure level is not known, wear approved, positive pressure, self-contained respirator. Where exposure level is known, wear approved respirator suitable for level of exposure. In addition to the protective clothing/equipment in Section 8 (Exposure Controls/Personal Protection), wear impermeable boots.

Environmental Precautions:

Use appropriate containment to avoid environmental contamination.

Methods and material for containment and cleaning up:

Cover spills with some inert absorbent material; sweep up and place in a waste disposal container. Flush spill area with water.

References to other sections:

See Sections 8 and 13 for additional information.

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Precautionary Measures: Avoid contact with eyes. Avoid contact with skin and clothing. Keep away from heat, sparks and flame. Keep container closed. Wash thoroughly after handling.

Special Handling Statements: Containers must be bonded and grounded when pouring or transferring material. This material contains a flammable or combustible liquid and vapor. Provide good ventilation of working area (local exhaust ventilation if necessary).

Conditions for safe storage, including any incompatibilities:

Keep away from heat sources and direct sunlight. Areas containing this material should have fire-safe practices and electrical equipment in accordance with Electrical and Fire Protection codes (NFPA-30) governing Class I Flammable Liquids. Take precautionary measures against electrostatic loading - earthing necessary during loading operations.

Storage Temperature: Room temperature

Reason: Quality.

Storage Class (TRGS 510): 2 B

Specific end use(s):

Refer to Section 1 or Exposure Scenario if applicable.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

CONTROL PARAMETERS

115-10-6 Dimethyl ether

United Kingdom: WEL (Workplace Exposure Limits)	400 ppm (TWA) 766 mg/m ³ (TWA) 500 ppm (STEL) 958 mg/m ³ (STEL)
Europe ILV (Indicative Limit Values):	Not established

115-10-6 Dimethyl ether

Other Value: Not established

67-64-1 Acetone

United Kingdom: WEL (Workplace Exposure Limits) 500 ppm (TWA)
 1210 mg/m³ (TWA)
 1500 ppm (STEL)
 3620 mg/m³ (STEL)

Europe ILV (Indicative Limit Values): Not established
 Other Value: Not established

8050-09-7 Rosin; colophony

United Kingdom: WEL (Workplace Exposure Limits) 0.05 mg/m³ fume (TWA)(as Rosin core solder pyrolysis products)
 0.15 mg/m³ fume (STEL)(as Rosin core solder pyrolysis products)

Europe ILV (Indicative Limit Values): Not established
 Other Value: Not established

Use	Route	DNEL	Units	Effects Type
Acetone (67-64-1)				
Worker	Dermal	186	mg/kg	Long term, systemic
Worker	Inhalation	1210	mg/m ³	Long term, systemic
Worker	Inhalation	2420	mg/m ³	Short term, local
Consumer	Dermal	62	mg/kg	Long term, systemic
Consumer	Inhalation	200	mg/m ³	Long term, systemic
Consumer	Oral	62	mg/kg	Long term, systemic

Compartment	PNEC	Units
Acetone (67-64-1)		
Fresh water	10.6	mg/L
Marine water	1.06	mg/L
Intermittent water release	21	mg/L
Sewage treatment plant	100	mg/L
Sediment (fresh water)	30.4	mg/kg
Sediment (marine water)	3.04	mg/kg
Soil	29.5	mg/kg

EXPOSURE CONTROLS**Engineering Measures:**

Where this material is not used in a closed system, good enclosure and local exhaust ventilation should be provided to control exposure.

Respiratory Protection:

Where exposures are below the established exposure limit, no respiratory protection is required.
 Where exposures exceed the established exposure limit, use respiratory protection recommended for the material and level of exposure.

Eye protection:

Wear eye/face protection such as chemical splash proof goggles or face shield.
 Eyewash equipment and safety shower should be provided in areas of potential exposure.

Skin Protection:

Avoid skin contact.

Wear impermeable gloves and suitable protective clothing.

Since this product is absorbed through the skin, care must be taken to prevent skin contact and contamination of clothing.

Hand protection:

Nitrile or fluorinated rubber gloves. Consider the porosity and elasticity data of the glove manufacturer and the specific conditions in the work place. Replace gloves immediately when torn or any change in appearance (dimension, colour, flexibility etc) is noticed. Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred.

The chemical resistance depends on the type of product and amount of product on the glove. Therefore gloves need to be changed when in contact with chemicals.

Due to many conditions (e.g. temperature, abrasion) the practical usage of a chemical protective glove in practice may be much shorter than the permeation time determined through testing.

Additional Advice:

Food, beverages, and tobacco products should not be carried, stored, or consumed where this material is in use. Before eating, drinking, or smoking, wash face and hands thoroughly with soap and water.

9. PHYSICAL AND CHEMICAL PROPERTIES

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Colour:	light blue
Appearance:	solvent mixture
Odor:	ketone
Odor Threshold:	See Section 8 for exposure limits.
pH:	Not available
Melting Point:	Not available
Boiling Point:	<35 °C
Flash point:	<0 °C
Evaporation Rate:	Not available
Flammability (solid, gas):	Not available
Flammable Limits (% By Vol):	Not available
Vapor Pressure:	Not available
Vapour density:	Not available
Specific Gravity/Density:	1
Solubility In Water:	Not available
Partition coefficient (n-octanol/water):	Not available
Autoignition (Self) Temperature:	Not available
Decomposition Temperature:	Not available
Viscosity (Kinematic):	Not available
Viscosity (Dynamic):	Not available

OTHER INFORMATION

Fat Solubility (Solvent-Oil):	Not available
Percent Volatile (% by wt.):	Not available
Solids Content:	Not available
Saturation In Air (% By Vol.):	Not available
Acid Number (mg KOH/g):	Not available
Hydroxyl Value (mg KOH/g):	Not available
Volatile Organic Content (1999/13/EC):	Not available
Dissociation Constant:	Not available
Explosion Properties:	Explosion will be caused by solvent contained in the final product.

Oxidizing Properties: Not available
Granulometry (Particle Size): Not available

DUST HAZARD INFORMATION

Particle Size (microns): Not applicable
Kst (bar-m/sec): Not applicable
Maximum Explosion Pressure (Pmax): Not applicable
Dust Class: Not applicable
Minimum Ignition Energy (MIE) (mJ): Not applicable
Minimum Ignition Temperature (MIT) (°C): Not applicable
Minimum Explosive Concentration (MEC) (g/m³): Not applicable
Limiting Oxygen Concentration (LOC) (%): Not applicable

10. STABILITY AND REACTIVITY

Reactivity: No information available

CHEMICAL STABILITY

Stability: Stable

Conditions To Avoid: Keep away from heat, spark and flame. Take precautionary measures against static discharges.

POSSIBILITY OF HAZARDOUS REACTIONS

Polymerization: Will not occur

Incompatible materials: - .

Hazardous Decomposition Products: When heated to decomposition, it emits toxic fumes.
Carbon monoxide

11. TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS

Likely Routes of Exposure: Skin, Eyes, Respiratory System.

Acute toxicity - oral: Not classified - Based on available data and/or professional judgment, the classification criteria are not met.

Acute toxicity - dermal: Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.

Acute toxicity - inhalation: Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.

Skin corrosion / irritation: Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.

Serious eye damage / eye irritation: Causes serious eye irritation.

Respiratory sensitization: Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.

Skin sensitization: May cause an allergic skin reaction.

Carcinogenicity: Not Classified. - Based on available data and/or professional judgment, the classification criteria are not met.

Germ cell mutagenicity: Not Classified. - Based on available data and/or professional judgment, the classification criteria are not met.

Reproductive toxicity: Not Classified. - Based on available data and/or professional judgment, the classification criteria are not met.

Specific target organ toxicity (STOT) - single exposure: May cause drowsiness or dizziness.

Specific target organ toxicity (STOT) - repeated exposure: Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.

Aspiration hazard: Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.

PRODUCT TOXICITY INFORMATION

ACUTE TOXICITY DATA

oral	rat	Acute LD50	>2000 mg/kg
dermal	rabbit	Acute LD50	>2000 mg/kg
inhalation	rat	Acute LC50 4 hr	>20 mg/l (Vapors)

LOCAL EFFECTS ON SKIN AND EYE

Acute Irritation	Skin	No data
Acute Irritation	eye	Irritating

ALLERGIC SENSITIZATION

Sensitization	Skin	Sensitizing
Sensitization	respiratory	No data

GENOTOXICITY

Assays for Gene Mutations

Ames Salmonella Assay No data

OTHER INFORMATION

The product toxicity information above has been estimated.

May Cause Nervous System Damage

HAZARDOUS INGREDIENT TOXICITY DATA

Rosin has an acute oral LD50 (rat) of > 2000 mg/kg. Direct contact with this material may cause mild eye and skin irritation. Prolonged or repeated exposure may produce allergic skin reactions.

Acetone has acute oral (rat) and dermal (rabbit) LD50 values of 5.8 g/kg and 15.7 g/kg, respectively. The LC50 (rat) for acetone vapor after a four hour exposure is 16,000 ppm (37.95 mg/L). Literature reports a LC50 inhalation (4-hr, rat) value of 29,900 ppm and acute ingestion can cause central nervous system effects. Chronic exposure to vapor may cause dryness of mouth, headache, dizziness, nausea, and loss of coordination. Liquid acetone is moderate to severely irritating to the eyes and mildly irritating to the skin. Repeated dermal application of acetone produced cataracts in the eyes of laboratory animals. High concentrations of acetone caused fetotoxic effects in laboratory animals tests. Acetone has shown positive results in in vitro screening tests for mutagenicity. Literature reports that in laboratory animal tests, acute ingestion has caused CNS effects and chronic ingestion has caused kidney and male reproductive organ effects.

12. ECOLOGICAL INFORMATION

TOXICITY, PERSISTENCE AND DEGRADABILITY, BIOACCUMULATIVE POTENTIAL, MOBILITY IN SOIL, OTHER ADVERSE EFFECTS

This material is not classified as dangerous for the environment.

The ecological assessment for this material is based on an evaluation of its components.

MOBILITY IN SOIL

Not available

RESULTS OF PBT AND vPvB ASSESSMENT

Not determined

HAZARDOUS INGREDIENT TOXICITY DATA

Component / CAS No.	Toxicity to Algae	Toxicity to Fish	Toxicity to Water Flea
Dimethyl ether 115-10-6	Not available	Not available	Not available
Rosin; colophony 8050-09-7	EC50 = 400 mg/L - Desmodemus subspicatus (72h)	Not available	EC50 3.8 - 5.4 mg/L - Daphnia magna (48h)
Acetone 67-64-1	Not available	LC50 4.74 - 6.33 mL/L - Oncorhynchus mykiss (96h) LC50 6210 - 8120 mg/L - Pimephales promelas (96h) static LC50 = 8300 mg/L - Lepomis macrochirus (96h)	EC50 10294 - 17704 mg/L - Daphnia magna (48h) Static EC50 12600 - 12700 mg/L - Daphnia magna (48h)

13. DISPOSAL CONSIDERATIONS**Waste Treatment Methods**

The Company encourages the recycle, recovery and reuse of materials, where permitted. If disposal is necessary, The Company recommends that organic materials, especially when classified as hazardous waste, be disposed of by thermal treatment or incineration at approved facilities. All local and national regulations should be followed.

14. TRANSPORT INFORMATION

This section provides basic shipping classification information. Refer to appropriate transportation regulations for specific requirements.

ADR/RID/ADN

Dangerous Goods? X
 Proper Shipping Name: Aerosols, flammable
 Class: 2.1
 UN Number: UN1950
 Transport Label Required: Flammable gas
 Tunnel restriction code: D
 Comments: Not intended for shipment by inland waterways in tank vessels.

IMO

Dangerous Goods? X
 Proper Shipping Name: Aerosols
 Hazard Class: 2.1
 UN Number: UN1950
 Transport Label Required: Flammable gas

ICAO / IATA

Dangerous Goods? X
Proper Shipping Name: Aerosols, flammable
Hazard Class: 2.1
UN Number: UN1950
Transport Label Required: Flammable gas

15. REGULATORY INFORMATION**SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS / LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE**

Ozone Depleting Substances (Regulation (EC) No 1005/2009): Not applicable
Persistent Organic Pollutants (Regulation (EC) No 850/2004): Not applicable
Prior Informed Consent (Regulation (EC) No 689/2008): Not applicable
Substances subject to Authorization (Annex XIV of Regulation (EC) No 1907/2006): Not applicable
This product is defined as an article according to REACH and therefore not subject to Authorization.

Substances subject to Restrictions for certain applications(Annex XVII of Regulation(EC)No 1907/2006):

Yes

Refer to Annex XVII of REACH for details of the restricted applications.

Dimethyl ether (40 - 50 %)

This substance is a flammable restricted for aerosols under item 40.

Acetone (20-40 %)

This substance is a flammable restricted for aerosols under item 40.

Water Endangering Class (Germany): 3 according to VwVwS, 17.05.1999

Inventory Information

European Economic Area (including EU): This product is an article that does not intentionally release substances under normal conditions of use and is therefore exempt from the registration requirements under the REACH Regulation (EC) No. 1907/2006.

United States (USA):

All components of this product are included on the TSCA Chemical Inventory or are not required to be listed on the TSCA Chemical Inventory.

Canada:

One or more components of this product are NOT included on the Canadian Domestic Substances List (DSL). These components are included on the Canadian Non-Domestic Substances List (NDSL).

Australia: All components of this product are included in the Australian Inventory of Chemical Substances (AICS) or are not required to be listed on AICS.

China: All components of this product are included on the Chinese inventory or are not required to be listed on the Chinese inventory.

Japan: All components of this product are included on the Japanese (ENCS) inventory or are not required to be listed on the Japanese inventory.

Korea: All components of this product are included on the Korean (ECL) inventory or are not required to be listed on the Korean inventory.

Philippines: All components of this product are included on the Philippine (PICCS) inventory or are not required to be listed on the Philippine inventory.

CHEMICAL SAFETY ASSESSMENT

No Chemical Safety Assessment has been carried out.

16. OTHER INFORMATION

Reasons for Issue: Date update

Date Prepared: 28-May-2019

Date of last significant revision: 28-May-2019

Classification methods include one or more of the following: use of specific product data, read-across data, modeling, professional judgment or a component based evaluation.

Component Hazard Phrases

Dimethyl ether

H220 - Extremely flammable gas.

Rosin; colophony

H317 - May cause an allergic skin reaction.

Acetone

H225 - Highly flammable liquid and vapour.

H319 - Causes serious eye irritation.

H336 - May cause drowsiness or dizziness.

Prepared By: Legal & Compliance Services; E-mail: custinfo@cytec.com

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