



## Safety Data Sheet

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|                        |           |                         |               |
|------------------------|-----------|-------------------------|---------------|
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### SECTION 1: Identification

#### 1.1. Product identifier

3M(TM) Scotch-Weld(TM) Instant Adhesive Primer AC77, Clear

#### Product Identification Numbers

62-3907-0860-0, 62-3907-0865-9, 62-3907-7560-9, 62-3907-9560-7

#### 1.2. Recommended use and restrictions on use

##### Recommended use

Adhesive primer, Primer

#### 1.3. Supplier's details

|                      |   |
|----------------------|---|
| <b>MANUFACTURER:</b> | 3M                                      |
| <b>DIVISION:</b>     | Industrial Adhesives and Tapes Division |
| <b>ADDRESS:</b>      | 3M Center, St. Paul, MN 55144-1000, USA |
| <b>Telephone:</b>    | 1-888-3M HELPS (1-888-364-3577)         |

#### 1.4. Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

### SECTION 2: Hazard identification

#### 2.1. Hazard classification

Flammable Liquid: Category 2.

Skin Corrosion/Irritation: Category 2.

Skin Sensitizer: Category 1.

Aspiration Hazard: Category 1.

Specific Target Organ Toxicity (central nervous system): Category 3.

#### 2.2. Label elements

##### Signal word

Danger

##### Symbols

Flame | Exclamation mark | Health Hazard |

##### Pictograms



**Hazard Statements**

Highly flammable liquid and vapor.

Causes skin irritation.

May cause an allergic skin reaction.

May be fatal if swallowed and enters airways.

May cause drowsiness or dizziness.

**Precautionary Statements**

**Prevention:**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Ground/bond container and receiving equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Keep container tightly closed.

Use explosion-proof electrical/ventilating/lighting equipment.

Avoid breathing dust/fume/gas/mist/vapors/spray.

Use only outdoors or in a well-ventilated area.

Wear protective gloves and eye/face protection.

Wash thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace.

**Response:**

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If skin irritation or rash occurs: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Do NOT induce vomiting.

Call a POISON CENTER or doctor/physician if you feel unwell.

In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

**Storage:**

Keep cool.

Keep container tightly closed.

Store locked up in a well-ventilated place.

**Disposal:**

Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

**2.3. Hazards not otherwise classified**

None.

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

| Ingredient                 | C.A.S. No. | % by Wt                |
|----------------------------|------------|------------------------|
| Hydrotreated Light Naphtha | 64742-49-0 | >= 99.9 Trade Secret * |

|                    |          |                       |
|--------------------|----------|-----------------------|
| Triphenylphosphine | 603-35-0 | <= 0.1 Trade Secret * |
|--------------------|----------|-----------------------|

\*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Inhalation:

Remove person to fresh air. If you feel unwell, get medical attention.

#### Skin Contact:

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

#### Eye Contact:

No need for first aid is anticipated.

#### If Swallowed:

Do not induce vomiting. Get immediate medical attention.

### 4.2. Most important symptoms and effects, both acute and delayed

See Section 11.1. Information on toxicological effects.

### 4.3. Indication of any immediate medical attention and special treatment required

Not applicable

## SECTION 5: Fire-fighting measures

### 5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

### 5.2. Special hazards arising from the substance or mixture

Closed containers exposed to heat from fire may build pressure and explode.

### Hazardous Decomposition or By-Products

| <u>Substance</u>              | <u>Condition</u>  |
|-------------------------------|-------------------|
| Carbon monoxide               | During Combustion |
| Carbon dioxide                | During Combustion |
| Toxic Vapor, Gas, Particulate | During Combustion |

### 5.3. Special protective actions for fire-fighters

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture.

## SECTION 6: Accidental release measures

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

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Refer to other sections of this SDS for information

regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

### 6.2. Environmental precautions

Avoid release to the environment. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

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

Contain spill. Cover spill area with a fire-extinguishing foam. An appropriate aqueous film forming foam (AFFF) is recommended. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible using non-sparking tools. Place in a metal container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. Seal the container. Dispose of collected material as soon as possible.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

For industrial or professional use only. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Wear low static or properly grounded shoes. To minimize the risk of ignition, determine applicable electrical classifications for the process using this product and select specific local exhaust ventilation equipment to avoid flammable vapor accumulation. Ground/bond container and receiving equipment if there is potential for static electricity accumulation during transfer.

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

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store away from heat. Store away from acids. Store away from oxidizing agents.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

| Ingredient                 | C.A.S. No. | Agency | Limit type   | Additional Comments |
|----------------------------|------------|--------|--|---------------------|
| Triphenylphosphine         | 603-35-0   | CMRG   | TWA:0.5 mg/m <sup>3</sup> ;CEIL:0.05 mg/m <sup>3</sup> |                     |
| Hydrotreated Light Naphtha | 64742-49-0 | CMRG   | TWA:50 ppm   |                     |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

OSHA : United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

### 8.2. Exposure controls

#### 8.2.1. Engineering controls

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment. Use explosion-proof ventilation equipment.

## 8.2.2. Personal protective equipment (PPE)

### Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:

Indirect Vented Goggles

### Skin/hand protection

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing.

Gloves made from the following material(s) are recommended: Nitrile Rubber

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron – Nitrile

### Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapors

For questions about suitability for a specific application, consult with your respirator manufacturer.

## SECTION 9: Physical and chemical properties

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

|  |   |
|--|---|
| <b>General Physical Form:</b>                  | Liquid  |
| <b>Odor, Color, Grade:</b>                     | Clear, colorless solution with mild petroleum odor. |
| <b>Odor threshold</b>                          | <i>No Data Available</i>                            |
| <b>pH</b>                                      | <i>Not Applicable</i>                               |
| <b>Melting point</b>                           | -54 °C  |
| <b>Boiling Point</b>                           | 66 - 103 °C   |
| <b>Flash Point</b>                             | -18 °C [ <i>Test Method:</i> Tagliabue Closed Cup]  |
| <b>Evaporation rate</b>                        | <i>No Data Available</i>                            |
| <b>Flammability (solid, gas)</b>               | Not Applicable                                      |
| <b>Flammable Limits(LEL)</b>                   | 1 %   |
| <b>Flammable Limits(UEL)</b>                   | 7 %   |
| <b>Vapor Pressure</b>                          | 18.5 kPa [@ 20 °C]                                  |
| <b>Vapor Density</b>                           | 3.1 [ <i>Ref Std:</i> AIR=1]                        |
| <b>Density</b>                                 | 0.69 g/ml   |
| <b>Specific Gravity</b>                        | 0.69  |
| <b>Solubility in Water</b>                     | Negligible  |
| <b>Solubility- non-water</b>                   | <i>No Data Available</i>                            |
| <b>Partition coefficient: n-octanol/ water</b> | <i>No Data Available</i>                            |
| <b>Autoignition temperature</b>                | 254 °C  |
| <b>Decomposition temperature</b>               | <i>No Data Available</i>                            |
| <b>Viscosity</b>                               | 0.5 centistoke [@ 25 °C ]                           |
| <b>Hazardous Air Pollutants</b>                | 0 % weight [ <i>Test Method:</i> Calculated]        |
| <b>Percent volatile</b>                        | > 99.9 % volume                                     |

VOC Less H2O & Exempt Solvents

689 g/l [Test Method: calculated SCAQMD rule 443.1]

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

### 10.2. Chemical stability

Stable.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Sparks and/or flames

Heat

### 10.5. Incompatible materials

Strong oxidizing agents

### 10.6. Hazardous decomposition products

| <u>Substance</u> | <u>Condition</u> |
|------------------|------------------|
| None known.      |                  |

Refer to section 5.2 for hazardous decomposition products during combustion.

## SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

### 11.1. Information on Toxicological effects

#### Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

#### Inhalation:

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

May cause target organ effects after inhalation.

#### Skin Contact:

Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, dryness, cracking, blistering, and pain.  
Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

#### Eye Contact:

Contact with the eyes during product use is not expected to result in significant irritation.

**Ingestion:**

Chemical (Aspiration) Pneumonitis: Signs/symptoms may include coughing, gasping, choking, burning of the mouth, difficulty breathing, bluish colored skin (cyanosis), and may be fatal.

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

May cause target organ effects after ingestion.

**Target Organ Effects:****Single exposure may cause:**

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

**Toxicological Data**

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

**Acute Toxicity**

| Name                       | Route                          | Species | Value   |
|----------------------------|--------------------------------|---------|---|
| Overall product            | Ingestion                      |         | No data available; calculated ATE > 5,000 mg/kg |
| Hydrotreated Light Naphtha | Dermal                         | Rabbit  | LD50 > 3,160 mg/kg                              |
| Hydrotreated Light Naphtha | Inhalation-Vapor (4 hours)     | Rat     | LC50 > 14.7 mg/l                                |
| Hydrotreated Light Naphtha | Ingestion                      | Rat     | LD50 > 5,000 mg/kg                              |
| Triphenylphosphine         | Dermal                         | Rabbit  | LD50 > 4,000 mg/kg                              |
| Triphenylphosphine         | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 12.5 mg/l                                  |
| Triphenylphosphine         | Ingestion                      | Rat     | LD50 700 mg/kg                                  |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name                       | Species | Value                     |
|----------------------------|---------|---------------------------|
| Hydrotreated Light Naphtha | Rabbit  | Irritant                  |
| Triphenylphosphine         | Rabbit  | No significant irritation |

**Serious Eye Damage/Irritation**

| Name                       | Species | Value         |
|----------------------------|---------|---------------|
| Hydrotreated Light Naphtha | Rabbit  | Mild irritant |
| Triphenylphosphine         | Rabbit  | Mild irritant |

**Skin Sensitization**

| Name                       | Species    | Value           |
|----------------------------|------------|-----------------|
| Hydrotreated Light Naphtha | Guinea pig | Not sensitizing |
| Triphenylphosphine         | Guinea pig | Sensitizing     |

**Respiratory Sensitization**

| Name | Species | Value |
|------|---------|-------|
|      |         |       |

**Germ Cell Mutagenicity**

| Name                       | Route    | Value         |
|----------------------------|----------|---------------|
| Hydrotreated Light Naphtha | In Vitro | Not mutagenic |

**Carcinogenicity**

| Name | Route | Species | Value |
|------|-------|---------|-------|
|      |       |         |       |

**3M(TM) Scotch-Weld(TM) Instant Adhesive Primer AC77, Clear 08/27/14**

|                            |            |       |  |
|----------------------------|------------|-------|--|
| Hydrotreated Light Naphtha | Inhalation | Mouse | Some positive data exist, but the data are not sufficient for classification |
|----------------------------|------------|-------|--|

**Reproductive Toxicity****Reproductive and/or Developmental Effects**

| Name | Route | Value | Species | Test Result | Exposure Duration |
|------|-------|-------|---------|-------------|-------------------|
|------|-------|-------|---------|-------------|-------------------|

**Target Organ(s)****Specific Target Organ Toxicity - single exposure**

| Name                       | Route      | Target Organ(s)                   | Value  | Species | Test Result         | Exposure Duration |
|----------------------------|------------|-----------------------------------|--|---------|---------------------|-------------------|
| Hydrotreated Light Naphtha | Inhalation | central nervous system depression | May cause drowsiness or dizziness  |         | NOAEL Not available |                   |
| Hydrotreated Light Naphtha | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification |         | NOAEL Not available |                   |

**Specific Target Organ Toxicity - repeated exposure**

| Name               | Route      | Target Organ(s) | Value  | Species | Test Result       | Exposure Duration |
|--------------------|------------|-----------------|--|---------|-------------------|-------------------|
| Triphenylphosphine | Inhalation | nervous system  | May cause damage to organs though prolonged or repeated exposure | Dog     | NOAEL .0097 mg/l  | 5 weeks           |
| Triphenylphosphine | Ingestion  | nervous system  | May cause damage to organs though prolonged or repeated exposure | Dog     | NOAEL 1 mg/kg/day | 5 weeks           |

**Aspiration Hazard**

| Name                       | Value             |
|----------------------------|-------------------|
| Hydrotreated Light Naphtha | Aspiration hazard |

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

**SECTION 12: Ecological information****Ecotoxicological information**

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

**Chemical fate information**

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

**SECTION 13: Disposal considerations****13.1. Disposal methods**

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Incinerate in a permitted waste incineration facility. As a disposal alternative, utilize an acceptable permitted waste disposal facility. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

EPA Hazardous Waste Number (RCRA): D001 (Ignitable)

## SECTION 14: Transport Information

For Transport Information, please visit <http://3M.com/Transportinfo> or call 1-800-364-3577 or 651-737-6501.

## SECTION 15: Regulatory information

### 15.1. US Federal Regulations

Contact 3M for more information.

#### 311/312 Hazard Categories:

Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - No

### 15.2. State Regulations

Contact 3M for more information.

### 15.3. Chemical Inventories

The components of this product are in compliance with the chemical notification requirements of TSCA.

Contact 3M for more information.

### 15.4. International Regulations

Contact 3M for more information.

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

## SECTION 16: Other information

### NFPA Hazard Classification

Health: 2 Flammability: 3 Instability: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

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