

# Safety Data Sheet

Conforms to JIS Z 7253 : 2019

## 1. Chemicals and Company Information

|  |  |
|--|--|
| <b>Product identifier</b>                      | AV Adhesive 32 (low-viscosity quick-drying up)                                 |
| <b>SDS No.</b>                                 | No.D-001   |
| <b>Supplier name</b>                           | Asahi Yukizai Corporation  |
| <b>Address</b>                                 | 2-5955, Nakanose-cho Nobeoka-city Miyazaki-pref. Japan 882-8688                |
| <b>Phone number</b>                            | +81-982-35-9380<br>(EHS Management Department Valve & Piping Systems Division) |
| <b>Fax number</b>                              | +81-982-35-9358<br>(EHS Management Department Valve & Piping Systems Division) |
| <b>Emergency phone number</b>                  | +81-982-35-9380  |
| <b>Manufacturer</b>                            | Konishi Co., Ltd.  |
| <b>Recommended use and restrictions on use</b> | Adhesive for PVC pipes. Use only as specified.                                 |

## 2. Hazards Identification

### GHS classification and label elements of the product

|                         |  |   |
|-------------------------|--|---|
| <b>Physical hazards</b> | Flammable liquids                                  | : Category 2  |
| <b>Health hazards</b>   | Skin corrosion/irritation                          | : Category 2  |
|                         | Serious eye damage/eye irritation                  | : Category 2  |
|                         | Skin sensitization                                 | : Category 1  |
|                         | Germ cell mutagenicity                             | : Category 2  |
|                         | Reproductive toxicity                              | : Category 2  |
|                         | Specific target organ toxicity (single exposure)   | : Category 1 (respiratory system)   |
|                         | Specific target organ toxicity (single exposure)   | : Category 2 (kidney, central nervous system)   |
|                         | Specific target organ toxicity (single exposure)   | : Category 3 (anesthetic effect)  |
|                         | Specific target organ toxicity (single exposure)   | : Category 3 (airway irritability)  |
|                         | Specific target organ toxicity (repeated exposure) | : Category 1 (respiratory system, central nervous system, gastrointestinal tract, bone, nervous system) |

Items for which the GHS classification result is "Not applicable to classification" or "Cannot classify" are not listed.

### GHS label elements Symbol (GHS JP)



GHS02



GHS07



GHS08

### Signal word (GHS JP)

Danger

### Hazard statement (GHS JP)

H225 : Highly flammable liquid and vapor  
 H315 : Causes skin irritation  
 H317 : May cause allergic skin reactions.  
 H319 : Causes serious eye irritation

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H335 : May cause respiratory irritation  
 H336 : May cause drowsiness or dizziness.  
 H341 : Suspected risk of hereditary disease  
 H361 : Suspected of causing adverse effects on fertility or the unborn child.  
 H370 : Organ damage (respiratory system)  
 H371 : Risk of organ damage (central nervous system, kidney)  
 H372 : Organ damage due to long-term or repeated exposure  
 (respiratory system, central nervous system, gastrointestinal tract,  
 bones, nervous system)

**Precautionary statement (GHS JP)****Safety measures**

P201 : Obtain the instruction manual before use.  
 P202 : Do not handle until all safety precautions have been read and understood.  
 P210 : Keep away from heat / sparks / open flames / hot surface.  
 - No smoking.  
 P233 : Keep container tightly closed.  
 P240 : The container shall be grounded and earthed.  
 P241 : Use explosion-proof electrical/ventilating/lighting equipment.  
 P242 : Use tools that do not generate sparks.  
 P243 : Take measures against electrostatic discharge.  
 P260 : Do not inhale mists/vapors/sprays.  
 P261 : Avoid inhalation of mist/vapor/spray.  
 P264 : Wash hands, forearms and face thoroughly after handling.  
 P270 : Do not eat, drink or smoke when using this product.  
 P271 : Use only outdoors or in a well-ventilated area.  
 P272 : Contaminated work clothing should not be removed from the workplace.  
 P280 : Wear protective gloves.

**First-aid measures**

P302+P352 : If on skin , wash with plenty of soap and water.  
 P303+P361+P353 : If on skin (or hair) , take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P304+P340 : If inhaled, remove person to fresh air and keep comfortable for breathing.  
 P305+P351+P338 : If in eyes, rinse cautiously with water for several minutes.  
 Remove contact lenses, if present and easy to do.  
 Continue rinsing.  
 P308+P311 : If there is exposure or concern of exposure, contact a physician.  
 P308+P313 : If there is exposure or concern of exposure, get medical advice/attention.  
 P312 : Call a doctor if you feel unwell.  
 P314 : Get medical advice/attention if you feel unwell.  
 P321 : Specific treatment is required.  
 P332+P313 : If skin irritation occurs, get medical advice/attention.  
 P333+P313 : If skin irritation or rash occurs, get medical advice/attention.  
 P337+P313 : If eye irritation persists, get medical advice/attention.  
 P362+P364 : Take off contaminated clothing and wash it before reuse.  
 P370+P378 : In case of fire, use appropriate media other than water for extinction.

**Storage**

P403+P233 : Store in a well-ventilated place. Keep container tightly closed.  
 P403+P235 : Store in a well-ventilated place. Keep cool.  
 P405 : Store locked up.

**Disposal**

P501 : Dispose of contents/container in accordance with local/national regulation.

**Summary of significant candidates and possible emergencies**

The product may cause organic solvent poisoning.

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## 3. Composition / Information on Ingredients

Single or Mixture

Mixture

Product name

Vinyl chloride resin adhesive

| Component           | Concentration or concentration range | Chemical formula                                  | Reference Number in Gazetted List in Japan |                             | CAS No.  |
|---------------------|--------------------------------------|---|--|-----------------------------|----------|
|                     |                                      |   | CSCL<br>(Chemical Substances Control Law)  | Labor Safety and Health Act |          |
| Methyl ethyl ketone | 40-50%                               | CH <sub>3</sub> CH <sub>2</sub> COCH <sub>3</sub> | (2)-542                                    | -                           | 78-93-3  |
| Cyclohexanone       | 20-30%                               | C <sub>6</sub> H <sub>10</sub> O                  | (3)-2376                                   | -                           | 108-94-1 |
| Acetone             | 10-20%                               | CH <sub>3</sub> COCH <sub>3</sub>                 | (2)-542                                    | -                           | 67-64-1  |

## 4. First-aid Measures

Description of first-aid measures

**If inhaled**

Remove person to fresh air and keep comfortable for breathing.  
Get a doctor/physician if you feel unwell.

**If on skin**

Call a doctor immediately.  
Wash gently with plenty of soap and water.  
Remove all contaminated clothing immediately.  
Wash skin with running water/shower.

**If in eyes**

Rinse cautious with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
Call a doctor immediately.

**If swallowed**

Rinse mouth.  
Contact a physician immediately.  
Do not induce vomiting.

**Protection of first-aiders**

Wear appropriate protective equipment.

## 5. Fire-fighting Measures

Extinguishing media

**Suitable extinguishing media**

Powdered chemical fire extinguisher, carbon dioxide or ordinary foam fire extinguisher, sand/soil.

**Un suitable extinguishing media**

Do not use direct water jet.

**Fire Hazards**

Extremely flammable liquid and vapor.

**Extinguishing Measures**

In the event of fire, stop the leak if it can be safely handled.  
Conduct fire fighting from a safe distance and protected location.

**Protective equipment for fire-fighters**

Compressed air and oxygen breathing apparatus  
Wear fire/flame resistant/retardant clothing.

## 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Non-emergency responder

**Protective equipment**

Wear appropriate protective equipment when working.

**First aid measures**

Avoid contact with skin and eyes.

Ventilate spilled area.

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Do not touch or walk on spilled product.  
Prohibit entry of non-related personnel.

## Environmental precautions

### Environmental precautions

Prevent entry into sewers and public waterways.  
Prevent entry into drains or waterways.  
Do not release the product into the environment.

## Containment and cleanup methods and equipment

### Containment methods

In the event of a large spill, contain the spill in a trench and block it with moist sand or earth for safe disposal afterwards.  
Contain the leak without risk if possible.

### Purification methods

If a small amount of liquid is spilled, absorb it with a nonflammable absorbent and place it in a container for disposal.  
Absorb all diffused product with sand or soil.  
Ground all equipment used when handling spills.

## 7. Precautions for Handling and Storage

### Handling

#### Engineering measures

Use local exhaust ventilation and general ventilation as described in "**8. Exposure controls / Protective measures**".  
Take equipment measures as described in "**8. Exposure controls / Protective measures**" and wear protective equipment.

#### Precautions for safe handling

Do not get on eyes, skin, or clothing.  
Do not inhale dust/smoke/gas/mist/vapor/spray.  
Ensure adequate ventilation of work area.  
Keep away from ignition sources such as heat/sparks/open flames/high temperature items.  
—No smoking.  
No fire and pay attention to static electricity.  
Refer to "**10. Stability and Reactivity**."

#### Sanitary measures

Always wash your hands after handling.

### Storage

#### Safe storage conditions

Store in a well-ventilated area.  
Keep container tightly closed.  
Keep out of sunlight.

#### Storage temperature

2-40 °C

## 8. Exposure controls / Protective measures

| Methyl ethyl ketone (78-93-3)                                   |                                |
|---|--------------------------------|
| Control concentration (MHLW)                                    | 200ppm                         |
| Allowable concentration (Japan Society for Occupational Health) | 200ppm (590mg/m <sup>3</sup> ) |
| ACGIH   | TWA 200ppm, STEL 300ppm        |

| Cyclohexanone (108-94-1)  |                               |
|---|-------------------------------|
| Control concentration (MHLW)                                    | 20ppm                         |
| Allowable concentration (Japan Society for Occupational Health) | 25ppm (100mg/m <sup>3</sup> ) |
| ACGIH   | TWA 20ppm, STEL 50ppm (Skin)  |

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| Acetone (67-64-1)   |                                |
|---|--------------------------------|
| Control concentration (MHLW)                                    | 500ppm                         |
| Allowable concentration (Japan Society for Occupational Health) | 200ppm (470mg/m <sup>3</sup> ) |
| ACGIH   | TWA 250ppm, STEL 500ppm        |

|   |  |
|---|--|
| <b>Equipment measures</b>                     | Provide adequate ventilation.<br>Install a local exhaust system.                         |
| <b>Personal protective equipment</b>          | Wear the recommended personal protective equipment.                                      |
| <b>Hand protection</b>                        | Wear appropriate protective gloves.  |
| <b>Eye protection</b>                         | Wear appropriate safety glasses.   |
| <b>Protective equipment for skin and body</b> | Wear long-sleeved work clothes, and protective clothing / protective boots as necessary. |
| <b>Respiratory protection</b>                 | [If ventilation is inadequate ] Wear protective equipment for breathing.                 |

## 9. Physical and Chemical Properties

|   |  |
|---|--|
| <b>Physical state</b>                                 | Liquid   |
| <b>Appearance</b>                                     | Liquid   |
| <b>Color</b>  | Colorless and semitransparent                  |
| <b>Odor</b>   | Petroleum odor                                 |
| <b>pH</b>   | No data  |
| <b>Melting point</b>                                  | No data  |
| <b>Freezing point</b>                                 | No data  |
| <b>Boiling point</b>                                  | No data  |
| <b>Flash point</b>                                    | -20°C (minimum ignition point used)            |
| <b>Spontaneous combustion point</b>                   | No data  |
| <b>Decomposition temperature</b>                      | No data  |
| <b>Flammability</b>                                   | No data  |
| <b>Explosion limits (vol%)</b>                        | No data  |
| <b>Steam pressure</b>                                 | No data  |
| <b>Relative density</b>                               | No data  |
| <b>Relative Vapor density (20°C)</b>                  | 1 or more (air =1)                             |
| <b>Density</b>  | 0.89g/cm <sup>3</sup>                          |
| <b>Relative gas density</b>                           | No data  |
| <b>Solubility</b>                                     | Insoluble in water, soluble in organic solvent |
| <b>n-octanol/water partition coefficient (LogPow)</b> | No data  |
| <b>Kinematic viscosity</b>                            | 100 ~ 250 mPa·s                                |
| <b>Dynamic viscosity measurement temperature</b>      | 20°C   |

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|                                       |         |
|---------------------------------------|---------|
| <b>Dynamic viscosity rate</b>         | No data |
| <b>Particle size</b>                  | No data |
| <b>Particle diameter distribution</b> | No data |
| <b>Particle shape</b>                 | No data |
| <b>Particle aspect ratio</b>          | No data |
| <b>Particle specific surface area</b> | No data |

## 10. Stability and Reactivity

|   |  |
|---|--|
| <b>Reactivity</b>                         | Under normal conditions of use, storage and transportation, this product will not react. |
| <b>Chemical stability</b>                 | Stable under normal conditions.  |
| <b>Possibility of hazardous reactions</b> | Stable under normal conditions of use.   |
| <b>Conditions to avoid</b>                | Not applicable.  |
| <b>Incompatible materials</b>             | Avoid contact with oxidizer.   |
| <b>Hazardous decomposition products</b>   | Carbon monoxide (CO).  |

## 11. Toxicological Information

|   |   |
|---|---|
| <b>Acute toxicity (oral)</b>                              | Cannot classify   |
| <b>Acute toxicity (dermal)</b>                            | Cannot classify   |
| <b>Acute toxicity (inhalation)</b>                        | Cannot classify (gas)<br>Cannot classify (vapor)<br>Cannot classify (dust, mist)  |
| <b>Skin corrosion / irritation</b>                        | Skin corrosion  |
| <b>Serious eye damage / eye irritation</b>                | Strong eye irritation   |
| <b>Respiratory sensitization</b>                          | Cannot classify   |
| <b>Skin sensitization</b>                                 | May cause an allergic skin reaction.  |
| <b>Germ cell mutagenicity</b>                             | Suspected hereditary disease  |
| <b>Carcinogenicity</b>                                    | Cannot classify   |
| <b>Reproductive toxicity</b>                              | Suspicion of adverse effects on reproductive functions or the fetus   |
| <b>Specific target organ toxicity (single exposure)</b>   | Organ damage (respiratory system)<br>Risk of organ damage (central nervous system, kidney)<br>May cause drowsiness or dizziness.<br>Risk of irritation to the respiratory tract |
| <b>Specific target organ toxicity (repeated exposure)</b> | Organ damage due to long-term or repeated exposure (respiratory system, central nervous system, gastrointestinal tract, bones, nervous system)                                  |
| <b>Aspiration hazard</b>                                  | Not applicable to classification  |

## 12. Environmental Impact Information

|                             |   |
|-----------------------------|---|
| <b>Ecosystems - General</b> | When leaking or disposing of the product, be careful not to handle it as it may affect the environment. |
|-----------------------------|---|

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**Hazardous to the aquatic environment  
Short-term hazard (Acute)** Cannot classify

**Hazardous to the aquatic environment  
Long-term hazard (Chronic)** Cannot classify

| AV Adhesive 32             |         |
|----------------------------|---------|
| Residual and degradability | No data |
| Bioaccumulative            | No data |
| Mobility in the soil       | No data |

**Hazardous to the ozone layer** Cannot classify

## 13. Disposal Considerations

### Contaminated container and package

Paper containers and packaging such as outer boxes and paper tubes:  
Collected or disposed of as paper waste (If it is a single substance, it is treated as stable industrial waste. If there is an adhering component, it is also treated as controlled industrial waste too.)

When disposing of empty containers, remove the contents completely and dispose of them as industrial waste or send them for collection.

Metal can, metal drum, and metal tubes: Dispose of as scrap metal. (In the case of a single component, treat as stable industrial waste. If there are adhering components, follow the classification of stable/managed industrial wastes.)

Glass containers: Disposed of as glass waste. (In the case of a single component, treat as stable industrial waste. If there are adhering components, follow the classification of stable/managed industrial wastes.)

Plastic bottles, tubes, bags, etc.: Dispose as waste plastics. (In the case of a single component, treat as stable industrial waste. (If there are adhering components, follow the classification of stable/managed industrial wastes.)

### Waste from residues

Dispose in accordance with applicable laws and regulations and municipal standards.

Entrust disposal to an industrial waste disposer licensed by the prefectural governor, or to a local public body, if such a body is in charge of disposal.

When disposing of waste, follow the Law Concerning Waste Disposal and Public Cleansing in particular.

When disposing of the product, confirm the reactivity of the hazardous information before processing.

## 14. Transport Information

### International regulations

| Road transport<br>(UN RTDG) | Marine transport<br>(IMDG) | Air transport<br>(IATA) |
|-----------------------------|----------------------------|-------------------------|
| UN No.                      |                            |                         |
| 1133                        | 1133                       | 1133                    |
| UN official product name    |                            |                         |

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| Adhesives   | ADHESIVES  | Adhesives   |
|---|--|---|
| <b>Classification of dangerous goods for transportation</b> |  |   |
| <b>3</b>  | <b>3</b>   | <b>3</b>  |
|   |  |   |
| <b>Packing group</b>  |  |   |
| <b>II</b>   | <b>II</b>  | <b>II</b>   |
| <b>Environmental Hazardous</b>                              |  |   |
| <b>Environmental Hazardous<br/>Not applicable</b>           | <b>Environmental Hazardous<br/>Not applicable<br/>Marine Pollutants<br/>Not applicable</b> | <b>Environmental Hazardous<br/>Not applicable</b> |

**Marine Pollutants**

Not applicable

**Special transport precautions**Follow the instructions in “**7. Precautions for Handling and Storage**”

Check that the containers are free from leakage and load them so as to prevent them from toppling over, falling, and suffering damage and ensure the prevention of cargo collapse.

**Domestic Regulations****Land Regulations**

When the Fire Service Law, Industrial Safety and Health Law, or Poisonous and Deleterious Substances Control Law is applicable, the product shall be transported in accordance with the applicable laws and regulations.

**Maritime Regulation**

Follow the provisions of the Ship Safety Law.

**Aviation Regulations**

Follow the provisions of the Civil Aeronautics Act.

**Emergency Response Guideline Number**

128

**Other Information**

No supplementary information

## 15. Regulatory Information (in Japan)

**Industrial Safety and Health Law**

Second class organic solvent, etc. (Enforcement Ordinance, Schedule 6-2; Ordinance on the Prevention of Organic Solvent Poisoning, Article 1, Paragraph 1, Item 4)

Working Environment Assessment Standard  
(Article 65-2, Paragraph 1 of the Law)

Hazardous and toxic substances whose names must be indicated  
(Article 57-1 of the Law; Article 18 of the Enforcement Ordinance)

Hazardous / flammable material  
(Enforcement Ordinance, Schedule 1, Item 4)

Hazardous and toxic substances whose names must be notified  
(Article 57-2 of the Law; Enforcement Ordinance, Article 18-2, Schedule 9)

|                     |                               |          |
|---------------------|-------------------------------|----------|
| Acetone             | (Government Ordinance No. 17) | (10~20%) |
| Cyclohexanone       | (Government Ordinance No.231) | (20~30%) |
| Methyl ethyl ketone | (Government Ordinance No.570) | (40~50%) |



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|   |   |
|---|---|
| <b>Poisonous and Deleterious Substances Control Law</b> | Not applicable  |
| <b>Fire Service Act</b>                                 | Category 4, Class 1 petroleum (water-insoluble) No fire Hazard class II   |
| <b>Foreign Exchange and Foreign Trade Act</b>           | Export Trade Control Order, Appended Table 1-16   |
| <b>Ship Safety Act</b>                                  | Flammable liquids (Regulations for the Carriage and Storage of Dangerous Goods in Ships, Articles 2 and 3; Hazardous Materials Notification, Schedule 1)                      |
| <b>Civil Aeronautics Act</b>                            | Flammable liquids (Civil Aeronautics Law Enforcement Regulations, Article 194; Hazardous Materials Notification - Schedule 1)   |
| <b>Act on Port Regulations</b>                          | Other hazardous materials / flammable liquids (Article 21-2 of the Law; Article 12 of the Regulations; Notification specifying the types of dangerous goods, separate table ) |
| <b>Pollutant Release and Transfer Register</b>          | Not applicable  |

## 16. Other Information

The evaluation of hazards and hazardous properties is not always satisfactory, so please handle with care.

If you have a Safety Data Sheet for this product that was previously given to you, please destroy it.

The SDS is subject to revision due to changes in laws and regulations, product improvements, etc.

If the date of creation or revision is more than two years ago, please confirm that it is the latest version.

SDS transmission route : In principle, Safety Data Sheets (SDS) are transmitted to end users through the following route.

If you have not obtained the SDS yet, please contact us through the sales channel to request the SDS or to inquire about the latest version.

(Manufacturer → agency → handling business)

### Disclaimer

The information contained in this sheet is based on reliable information, but no warranty, express or implied, is given as to the accuracy of the information. Because the conditions under which the product is handled, used, stored, or disposed of are beyond our control and may not be known to us, we assume no responsibility, direct or indirect, for any loss, damage, or expense resulting from the handling, use, storage, or disposal of the product. This sheet should be used only with this product. If this product is used as an ingredient in other products, the information contained in this sheet may not apply.