

Safety Data Sheet

Conforms to JIS Z 7253 : 2019

1. Chemicals and Company Information

Chemical name	AV Adhesive 88 (low-viscosity quick-drying up)
SDS No.	No.D-004
Supplier name	Asahi Yukizai Corporation
Address	2-5955, Nakanose-cho Nobeoka-city Miyazaki-pref. Japan 882-8688
Phone number	+81-982-35-9380 (EHS Management Department Valve & Piping Systems Division)
Fax number	+81-982-35-9358 (EHS Management Department Valve & Piping Systems Division)
Emergency phone number	+81-982-35-9380
Manufacturer	Konishi Co., Ltd.
Recommended use and restrictions on use	Adhesive for PVC pipes. Use only as specified.

2. Hazards Identification

GHS classification and label elements of the product

Physical hazards	Flammable liquids	: Category 2
Health hazards	Acute toxicity (via mouth)	: Category 4
	Acute toxicity (dermal)	: Category 4
	Acute toxicity (inhalation: vapor)	: Category 4
	Skin corrosion/irritation	: Category 2
	Serious eye damage/eye irritation	: Category 2
	Skin sensitization	: Category 1
	Germ cell mutagenicity	: Category 2
	Carcinogenic	: Category 2
	Reproductive toxicity	: Category 2
	Specific target organ toxicity (single exposure)	: Category 1 (central nervous system, respiratory system)
Specific target organ toxicity (single exposure)	: Category 2 (kidney)	
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 (liver, central nervous system, respiratory system, 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

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Hazard statement (GHS JP)

H225 : Highly flammable liquid and vapor
H302+H312+H332 : Harmful if swallowed or if in contact with skin or inhaled.
H315 : Causes skin irritation
H317 : May cause allergic skin reactions.
H319 : Causes serious eye irritation
H335 : May cause respiratory irritation.
H336 : May cause drowsiness or dizziness.
H341 : Suspected risk of hereditary disease
H351 : Suspected of causing cancer
H361 : Suspected of causing adverse effects on fertility or the unborn child.
H370 : Organ damage (central nervous system, respiratory system)
H371 : Risk of organ damage (kidney)
H372 : Organ damage due to long-term or repeated exposure (liver, central nervous system, respiratory system, 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 the 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

P301+P312 : If swallowed: Contact a physician if you feel unwell.
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.
P330 : Rinse mouth.
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.

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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.

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 (Chemical Substances Control Law)	Labor Safety and Health Act	
Cyclohexanone	40-50%	C ₆ H ₁₀ O	(3)-2376	-	108-94-1
Tetrahydrofuran	30-40%	C ₄ H ₈ O	(5)-53	-	109-99-9
Methyl ethyl ketone	10-20%	CH ₃ CH ₂ COCH ₃	(2)-542	-	78-93-3

4. First-aid Measures

Description of first-aid measures

If inhaledRemove 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 MeasuresIn 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.

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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.

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

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

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Tetrahydrofuran (109-99-9)	
Control concentration (MHLW)	50ppm
Allowable concentration (Japan Society for Occupational Health)	50ppm (148mg/m ³)(skin)
ACGIH	TWA 50ppm, STEL 100ppm (Skin)

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

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

9. Physical and Chemical Properties

Physical state	Liquid
Appearance	Liquid
Color	Colorless and semitransparent
Odor	Petroleum odor
pH	No data
Melting point	No data
Freezing point	No data
Boiling point	No data
Flash point	-14°C (minimum ignition point used)
Spontaneous combustion point	No data
Decomposition temperature	No data
Flammability	No data
Explosion limits (vol%)	No data
Steam pressure	No data
Relative Vapor density (20°C)	1 or more (air =1)
Density	0.97g/cm ³
Relative gas density	No data
Solubility	Insoluble in water, soluble in organic solvent
n-octanol/water partition coefficient (LogPow)	No data

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Kinematic viscosity	200 ~ 700 mPa·s
Dynamic viscosity measurement temperature	20°C
Dynamic viscosity rate	No data
Particle size	No data
Particle diameter distribution	No data
Particle shape	No data
Particle aspect ratio	No data
Particle specific surface area	No data

10. Stability and Reactivity

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

11. Toxicological Information

Acute toxicity (oral)	Harmful if swallowed
Acute toxicity (dermal)	Harmful when in contact with skin
Acute toxicity (inhalation)	Cannot classify (gas) Harmful if inhaled Cannot classify (dust, mist)

ATE JP (oral)	1204.405 mg/kg bodyweight
ATE JP (dermal)	1203.999 mg/kg bodyweight

Skin corrosion / irritation	Skin corrosion
Serious eye damage / eye irritation	Strong eye irritation
Respiratory sensitization	Cannot classify
Skin sensitization	May cause an allergic skin reaction.
Germ cell mutagenicity	Suspected hereditary disease
Carcinogenicity	Suspected of causing cancer
Reproductive toxicity	Suspected of causing adverse effects on fertility or the unborn child
Specific target organ toxicity (single exposure)	Organ damage (central nervous system, respiratory system) Risk of organ damage (kidney) May cause drowsiness or dizziness. Risk of irritation to the respiratory tract
Specific target organ toxicity (repeated exposure)	Organ damage due to long-term or repeated exposure (liver, central nervous system, respiratory system, bones, nervous system)
Aspiration hazard	Not applicable to classification

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12. Environmental Impact Information

Ecosystems - General

When leaking or disposing of the product, be careful not to handle it as it may affect the environment.

**Hazardous to the aquatic environment
Short-term hazard (Acute)**

Cannot classify

**Hazardous to the aquatic environment
Long-term hazard (Chronic)**

Cannot classify

AV Adhesive 88	
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

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Road transport (UN RTDG)	Marine transport (IMDG)	Air transport (IATA)
UN No.		
1133	1133	1133
UN official product name		
Adhesives	ADHESIVES	Adhesives
Classification of dangerous goods for transportation		
3	3	3
		
Packing group		
II	II	II
Environmental Hazardous		
Environmental Hazardous Not applicable	Environmental Hazardous Not applicable Marine Pollutants Not applicable	Environmental Hazardous Not applicable

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 Act, Article 18, Item 1 and Item 2 of the Enforcement Order, Appended Table 9)

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

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Hazardous and toxic substances whose names must be notified
(Article 57-2 of the Act, Article 18-2, Item 1 and Item 2 of the Enforcement Order, Appended Table 9)

Cyclohexanone	(Government Ordinance No.231)	(40~50%)
Tetrahydrofuran	(Government Ordinance No.367)	(30~40%)
Methyl ethyl ketone	(Government Ordinance No.570)	(10~20%)

Poisonous and Deleterious Substances Control Law	Not applicable
Fire Service Act	Category 4, Class 1 petroleum (water-insoluble) No fire Hazard class II
Foreign Exchange and Foreign Trade Act	Export Trade Control Order, Appended Table 1-16
Ship Safety Act	Flammable liquids (Regulations for the Carriage and Storage of Dangerous Goods in Ships, Articles 2 and 3; Hazardous Materials Notification, Schedule 1)
Civil Aeronautics Act	Flammable liquids (Civil Aeronautics Law Enforcement Regulations, Article 194; Hazardous Materials Notification - Schedule 1)
Act on Port Regulations	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)
Pollutant Release and Transfer Register	After revision April 1, 2023 and thereafter Class 1 Designated Chemical Substances (Law Article 2, Paragraph 2, Enforcement Order Article 1, Appended Table 1) Tetrahydrofuran (Control No. 674) (19%)

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.