

# Safety Data Sheet

according to 1907/2006/EG, Article 31

A042026

# 1TAPES

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**edge sealing**

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## SECTION 1: Identification of the substance/mixture and of the company

### 1.1 Product identifier

- Trade name: Edge sealing
- UFI: P0W0-50SW-C00D-GK3W
- H 9997 Syntic =Total= VP =2=

### 1.2 Relevant identified uses of the substance or mixture and uses, which are advised against

-

#### Relevant identified uses

Adhesives, sealants

### 1.3 Details of the supplier providing the safety data sheet

- Manufacturer/Supplier:  
1A Tapes GmbH  
Mittelstraße 9  
07554 Korbußen

#### Informing department:

E-mail: info@1atapes.de

Tel: +49 36602 2891-00 (Mon-Thu: 8:00 a.m. - 4:00 p.m., Fri: 8:00 a.m. - 2:30 p.m.)

### 1.4 Emergency number:

Germany: +49 361 730 730

Austria: 01 406 43 43

Switzerland: 44 251 51 51

## SECTION 2: Potential hazards

### 2.1 Classification of the substance or mixture

- Classification according to Regulation (EC) No. 1272/2008 [CLP]
- The mixture is classified as hazardous according to Regulation (EC) No. 1272/2008 [CLP].
- Flam. Liq. 2; flammable liquids; H225 Highly flammable liquid and vapor.
- Eye Irrit. 2; serious eye damage/irritation; H319 Causes serious eye irritation.
- STOT SE 3 narcotic effect; specific target organ toxicity following single exposure; H336 May cause drowsiness or dizziness.
- Eye Irrit. 2 H319 Causes severe eye irritation.
- STOT SE 3 H336 May cause drowsiness and dizziness.

### 2.2 Label elements

- Labeling according to Regulation (EC) No. 1272/2008
- The product is classified and labeled according to the CLP Regulation.
- Hazard pictograms



GHS02 GHS07

- Signal word Danger

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## Hazard statements

H225 Highly flammable liquid and vapor.

H319 Causes severe eye irritation.

H336 May cause drowsiness and dizziness.

## Safety advice

### P210

Keep away from heat, hot surfaces, sparks, open flames and other sources of ignition. Do not smoke.

### P261

Avoid breathing vapors.

### P280

Wear protective gloves and eye/face protection.

### P337 + P313

If eye irritation persists: Get medical advice/attention.

### P370 + P378

In case of fire: Use dry powder or sand to extinguish.

### P403 + P235

Store in a well-ventilated place. Keep cool.

## Hazardous components for labeling

2-propanone; acetone; propanone

## Additional hazard characteristics

EUH066 Repeated exposure may cause skin dryness or cracking.

## 2.3 Other hazards

No information available.

## SECTION 3: Composition/information on ingredients

### 3.2 Chemical characterization: Mixtures

- Description: Polyurethane prepolymers with stabilizers and fillers in a mixture of organic solvents.

Hazardous ingredients:		
CAS: 67-64-1 EINECS: 200-662-2 Index number: 606-001-00-8	2- Propanon; Aceton; Propanon  	25-35%
CAS: 78-93-3 EINECS: 201-159-0 Index number: 606-002-00-3	Butanon, Ethylmethylketon  	≥20-≤25%
CAS: 141-78-6 EINECS: 205-500-4 Index number: 607-022-00-5	Ethylacetat  	25,0-35%

**Additional information:** Wording of the h and EUH hazard statements: see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- After inhalation: Provide fresh air. If breathing is difficult or has stopped, initiate artificial respiration. Medical treatment is necessary. After inhaling decomposition products, remove the affected person to fresh air and keep them calm.
- After skin contact: Remove contaminated clothing and wash before reuse. In case of contact with skin, immediately wash with plenty of soap and water. Apply a fatty ointment.
- After eye contact: In case of eye contact, rinse eyes with water for a sufficient amount of time with eyelids open, then immediately consult an ophthalmologist.
- After swallowing: Immediately rinse mouth and drink plenty of water. Do NOT induce vomiting. In case of allergic reactions, especially in the respiratory tract, consult a doctor immediately.

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## First responder

**First responder: Ensure your own safety!**

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

- Dizziness. Nausea.

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

- Symptomatic treatment. Transport affected persons lying down, in a semi-sitting position if they have difficulty breathing. Oxygen therapy if necessary.

## SECTION 5: Fire fighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media: Carbon dioxide (CO<sub>2</sub>), alcohol-resistant foam, extinguishing powder, ABC powder, spray mist (water), dry sand
- Unsuitable extinguishing media for safety reasons: Full water jet. Sharp water jet

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

Flammable. Vapors may form explosive mixtures with air. Do not inhale explosion and fire gases. In case of fire, the following may be produced: hydrogen chloride (HCl). Combustion produces heavy soot.

### 5.3 Advice for fire-fighters

- In case of fire: Wear self-contained breathing apparatus.

### 5.4 Additional information

Use water spray to suppress gases/vapors/mists. Use water spray to protect people and cool containers in the danger zone. Remove product from the fire area. Collect contaminated extinguishing water separately. Do not allow to enter drains or waterways.

## SECTION 6: Accidental release measures

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

Avoid contact with eyes and skin. Use personal protective equipment. Remove all sources of ignition. Ensure adequate ventilation. Do not breathe gas/fumes/vapor/aerosol.

### 6.2 Environmental precautions

Do not allow to enter drains or waterways.

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

Absorb with liquid-binding material (sand, diatomaceous earth, acid binder, universal binder). Treat the absorbed material in accordance with the disposal section.

### 6.4 Reference to other sections

Safe handling: see Section 7

Personal protective equipment: see Section 8

Disposal: see Section 13

## SECTION 7: Handling and storage

### 7.1 Protective measures for safe handling

#### Safety instructions

This material may be ignited by heat, sparks, flames, or other ignition sources (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, and pagers that are not certified as intrinsically safe). When handling in the open, use local exhaust ventilation where possible. If local exhaust ventilation is not possible or insufficient, ensure that the work area is well ventilated.

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## General industrial hygiene information

Do not eat, drink, smoke, or sniff at the workplace. Create and follow a skin protection plan! Before breaks and at the end of work, wash hands and face thoroughly, shower if necessary. Before starting work, use solvent-resistant skin protection products.

## Further information

Keep away from heat, hot surfaces, sparks, open flames, and other sources of ignition. Do not smoke. Vapors/aerosols must be extracted safely immediately at the point of origin. Take measures against electrostatic

## 7.2 Conditions for safe storage, taking into account incompatibilities.

### Requirements for storage rooms and containers

Store only in the original container in a cool, well-ventilated place. Keep container tightly closed. Store in well-ventilated and dry rooms between 10 °C and 30 °C. Ensure adequate ventilation of storage rooms.

### Storage compatibility

Do not store together with: oxidizing agents, pyrophoric or self-heating hazardous substances. Store packaging and combustible materials separately from each other. Keep away from food, beverages, and animal feed.

### Storage class

LGK3 - Flammable liquids

### Further information on storage conditions

Floors should be impermeable, liquid-resistant, and easy to clean. Store small quantities in suitable

## 7.3 Specific end uses Adhesives, sealants, rollers or brushes for adhesives and other coatings.

## SECTION 8: Exposure controls/personal protective equipment

### 8.1 Parameters to be monitored

CAS-Nr.	substance names	source	Long-term / Short-term (Peak limitation)
67-64-1	2- Propanon; Aceton; Propanon	IOELV	1.210 / - (-) mg/m <sup>3</sup>
67-64-1	2- Propanon; Aceton; Propanon	TRGS 900	1.200 / 2.400 (-) mg/m <sup>3</sup>
78-93-3	Butanon; Ethylmethylketon	IOELV	600 / 900 (-) mg/m <sup>3</sup>
78-93-3	Butanon; Ethylmethylketon	TRGS 900	600 / 600 (-) mg/m <sup>3</sup>
141-78-6	Ethylacetat	IOELV	734 / 1.468 (-) mg/m <sup>3</sup>
141-78-6	Ethylacetat	TRGS 900	730 / 1.460 (-) mg/m <sup>3</sup>

### Additional information

Long-term: Long-term occupational exposure limit

Short-term: Short-term occupational exposure limit

### Biological limit values

CAS-Nr.	substance names	source	Value/ Research material
67-64-1	2- Propanon; Aceton; Propanon	TRGS 903	80 mg/L / Urin
78-93-3	Butanon; Ethylmethylketon	TRGS 903	2 mg/L / Urin

**DNEL for workers**

CAS-Nr.	substance names	source	DNEL value
67-64-1	2- Propanon; Aceton; Propanon	DNEL acute inhalation (systemic)	2.420 mg/L
67-64-1	2- Propanon; Aceton; Propanon	DNEL acute inhalation (systemic)	1.210 mg/L
67-64-1	2- Propanon; Aceton; Propanon	DNEL long-term dermal (systemic)	186 mg/kg
78-93-3	Butanon; Ethylmethylketon	DNEL long-term dermal (systemic)	1,161 mg/kg body weight/day
78-93-3	Butanon; Ethylmethylketon	DNEL long-term dermal (systemic)	600 mg/m <sup>3</sup>
141-78-6	Ethylacetat	DNEL long-term dermal (systemic)	1,468 mg/L
141-78-6	Ethylacetat	DNEL acute inhalation (systemic)	1,468 mg/L
141-78-6	Ethylacetat	DNEL long-term dermal (systemic)	63 mg/kg

**DNEL for consumers**

CAS-Nr.	substance names	source	DNEL value
67-64-1	2- Propanon; Aceton; Propanon	DNEL acute inhalation (systemic)	62 mg/kg
67-64-1	2- Propanon; Aceton; Propanon	DNEL acute inhalation (systemic)	200 mg/L
67-64-1	2- Propanon; Aceton; Propanon	DNEL long-term dermal (systemic)	62 mg/kg
78-93-3	Butanon; Ethylmethylketon	DNEL long-term dermal (systemic)	31 mg/kg body weight/day
78-93-3	Butanon; Ethylmethylketon	DNEL long-term dermal (systemic)	600 mg/kg body weight/day
141-78-6	Ethylacetat	DNEL long-term dermal (systemic)	106 mg/m <sup>3</sup>
141-78-6	Ethylacetat	DNEL acute inhalation (systemic)	0,734 mg/L
141-78-6	Ethylacetat	DNEL long-term dermal (systemic)	37 mg/kg
141-78-6	Ethylacetat	DNEL acute inhalation (systemic)	0,037 mg/L
141-78-6	Ethylacetat	DNEL long-term oral (repeatedly)	4,5 mg/kg
141-78-6	Ethylacetat	Acute inhalation DNEL (local)	0,367 mg/L

**PNEC**

CAS-Nr.	substance names	source	PNEC value
67-64-1	2- Propanon; Aceton; Propanon	PNEC Water bodies, Freshwater	10,6 mg/L
67-64-1	2- Propanon; Aceton; Propanon	PNEC Water bodies, Seawater	1,06 mg/L
67-64-1	2- Propanon; Aceton; Propanon	PNEC sediment, freshwater	30,4 mg/L
67-64-1	2- Propanon; Aceton; Propanon	PNEC sediment, Seawater	3,04 mg/L
67-64-1	2- Propanon; Aceton; Propanon	PNEC soil, seawater	29,5 mg/L
78-93-3	Butanon; Ethylmethylketon	PNEC sewage treatment plant (STP)	709 mg/L
78-93-3	Butanon; Ethylmethylketon	PNEC Water bodies, Freshwater	55,8 mg/L
78-93-3	Butanon; Ethylmethylketon	PNEC soil, freshwater	22,5 mg/kg
78-93-3	Butanon; Ethylmethylketon	PNEC sediment, freshwater	284,7 mg/kg
141-78-6	Ethylacetat	PNEC Water bodies, Freshwater	0,26 mg/L
141-78-6	Ethylacetat	PNEC Water bodies, Seawater	0,026 mg/L
141-78-6	Ethylacetat	PNEC sediment, freshwater	0,34 mg/kg
141-78-6	Ethylacetat	PNEC sediment, seawater	0,034 mg/kg
141-78-6	Ethylacetat	PNEC soil, freshwater	0,22 mg/kg

**8.2 Exposure controls and monitoring**

**Where possible, use local exhaust ventilation when handling the substance.**

**Personal protective equipment**

**Respiratory protection**

If technical extraction or ventilation measures are not possible or insufficient, respiratory protection must be worn. Combination filter device The following filter types must be used for exhaust gas purification:

**Hand protection**

- Suitable material: NBR (nitrile rubber)
- Thickness of glove material:  $\geq 0.4$  mm
- Breakthrough time:  $\geq 480$  min
- It is recommended to check the chemical resistance of the above protective gloves for specific applications with the glove manufacturer.

**Eye/face protection**

Wear tightly fitting safety goggles if there is a risk of splashing.

**Body protection**

When handling chemical agents, only chemical protective clothing with a CE mark including a four-digit test number may be worn. Wear antistatic shoes and work clothes.

Do not allow to enter the ground/soil. Do not allow to enter drains or waterways.

In case of gas leakage or if the product enters waterways, soil, or drains, notify the relevant authorities.

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**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

- Appearance:	
Form:	Liquid
Color:	transparent
- Odor:	Characteristic
- Odor threshold:	Not determined.
- pH:	Mixture is non-polar/aprotic.
- Change in condition	
Melting point/Freezing point:	Not determined.
initial boiling point and boiling range:	56 °C
- Flash point:	-20 °C
- Lower and upper explosion limits:	2,0 Vol % // 12,0 Vol %
- Evaporation rate at 20°C	Not determined.
- Decomposition temperature:	Not determined.
- Explosion limits:	
Lower:	2,1 Vol-%
Upper:	14,3 Vol-%.
- Vapor pressure at 20 °C:	246 mbar
- Density at 20 °C:	0,885 kg/l
- Relative density	Not determined.
- Vapor density	2.000 mPas
- Evaporation rate	Not determined.
- Solubility in / Miscibility with Water:	Not determined.

**9.2 Other information** No further relevant information available.**SECTION 10: Stability and reactivity****10.1 Reactivity**

No dangerous reactions occur when handled and stored as intended.

**10.2 Chemical stability**

No testing required, as this substance is known to be stable at room temperature over extended periods of time (days).

**10.3 Possibility of hazardous reactions****10.3 Possibility of hazardous reactions**

Gases/vapors, highly flammable. Vapors may form explosive mixtures with air.

**10.4 Conditions to avoid**

Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources.

No smoking.

**10.5 Incompatible materials**

Acid, concentrated, oxidizing agent, strong.

**10.6 Hazardous decomposition products**

Thermal decomposition may release irritating gases and vapors.

**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity**

Based on the available data, the classification criteria are not met.

**2-propanone; acetone; propanone**

LD50: oral (rat) = 5,800 mg/kg

LD50: dermal (rabbit) &gt; 15,800 mg/kg

LC50: inhalation (rat) = 76 ppmV (4 h)

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## 11.1 Information on toxicological effects

### Acute toxicity

Based on the available data, the classification criteria are not met.

### 2-propanone; acetone; propanone

LD50: oral (rat) = 5,800 mg/kg

LD50: dermal (rabbit) > 15,800 mg/kg

LC50: inhalation (rat) = 76 ppmV (4 h)

### Butanone; ethyl methyl ketone

LD50: (rat) = 10,470 mg/kg; (OECD 401)

LD50: (rabbit) = 5,000 mg/kg; (OECD 402)

LC50: inhalation (rat) > 20 mg/L (4 h); (OECD 403)

### Ethyl acetate

LD50: oral (rat) > 5,620 mg/kg

LD50: dermal (rabbit) > 18,000 mg/kg

LC50: inhalation (rat) = 56 mg/L (4 h)

### Skin corrosion/irritation

Based on available data, the classification criteria are not met.

### Serious eye damage/irritation

Causes serious eye irritation.

### Respiratory/skin sensitization

Based on available data, the classification criteria are not met.

### CMR effects (carcinogenic, mutagenic, and reproductive toxicity)

Based on the available data, the classification criteria are not met.

### Specific target organ toxicity after single exposure

May cause drowsiness and dizziness.

### Specific target organ toxicity after repeated exposure

Based on the available data, the classification criteria are not met.

### Aspiration hazard

Based on available data, the classification criteria are not met.

### Experience from practice/in humans

Inhalation of solvent components above the AGW value can lead to health hazards, such as irritation of the mucous membranes and respiratory organs, damage to the liver, kidneys, and central nervous system.

Symptoms include: headaches, dizziness, fatigue, muscle weakness, drowsiness, and in severe cases: loss of consciousness. Solvents can cause some of the above effects through skin absorption. Prolonged and repeated contact with the product leads to loss of skin oils and may cause non-allergic contact skin damage (contact dermatitis) and/or absorption of harmful substances. Splashes may cause eye irritation and reversible damage.

## SECTION 12: Environmental information

### 12.1 Toxicity

Based on the available data, the classification criteria are not met.

### Acute (short-term) fish toxicity

#### 2-Propanone; acetone; propanone

LC50: (*Oncorhynchus mykiss* (rainbow trout)): = 5,540 mg/L (96 h)

#### Butanone; ethyl methyl ketone

LC50: (*Leuciscus idus* (golden orfe)): > 100 mg/L (48 h)

#### Ethyl acetate

LC50: (*Oncorhynchus mykiss* (rainbow trout)): = 230 mg/L (96 h)

### Acute (short-term) toxicity to algae and cyanobacteria

#### 2-Propanone; acetone; propanone

ErC50: = 100 mg/L (96 h)

#### Butanone; ethyl methyl ketone

EC50 (*Desmodesmus subspicatus*): > 100 mg/L

#### Ethyl acetate

LC50: (*Desmodesmus subspicatus*): = 5,600 mg/L (48 h)

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## Acute (short-term) toxicity to crustaceans

### 2-Propanone; acetone; propanone

EC50 (Daphnia pulex (water flea)): = 8,800 mg/L (48 h)

### Butanone; ethyl methyl ketone

EC50 (Daphnia magna (large water flea)): > 100 mg/L (48 h)

### Ethyl acetate

EC50 (Daphnia magna (large water flea)): = 165 mg/L (48 h)

## 12.2 Persistence and degradability

No information available.

**Behavior in environmental compartments: No data available.**

## 12.3 Bioaccumulative potential

Partition coefficient n-octanol/water = 0.68

Partition coefficient n-octanol/water = -0.24

## 12.4 Mobility in soil

No information available.

## 12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, Annex XIII.

## 12.6 Other adverse effects

No information available.

## SECTION 13: Notes on disposal

### 13.1 Waste treatment procedures

#### Disposal of the product/packaging

Do not allow to enter the sewage system; waste and containers must be disposed of in a secure manner.

Disposal in accordance with Directive 2008/98/EC on waste and hazardous waste.

#### Waste codes/waste designations according to EAK/AVV

The assignment of waste code numbers/waste designations must be carried out in accordance with EAKV in a manner specific to the industry and process.

#### Other disposal recommendations

Uncontaminated and completely emptied packaging can be recycled. Containers that have not been properly emptied are hazardous waste.

## SECTION 14: Transport information

### 14.1 UN number

UN1993

### 14.2 Proper UN shipping name

ADR

ADHESIVES (contains 2-propanone; acetone; propanone, butanone; ethyl methyl ketone)

Sea transport (IMDG)

Adhesives (contain acetone; propan-2-one; propanone, butanone; ethyl methyl ketone) Air transport

Air transport (ICAO-TI / IATA-DGR)

Adhesives (contain acetone; propan-2-one; propanone, butanone; ethyl methyl ketone)

### 14.3 Transport hazard classes

#### Land transport

Land transport (ADR/RID)

3

Sea transport (IMDG)

3

Air transport (ICAO-TI / IATA-DGR)

3

### 14.4 Packaging group

Land transport (ADR/RID)

II

for containers < = 450 liters III

Sea transport (IMDG)

II

for containers < 30 liters: III

Air transport (ICAO-TI / IATA-DGR)

II

for containers < 30 liters: III

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**Trade name:** edge sealing

**14.5 Environmental hazards:** Not applicable.

#### 14.6 Special precautions for

transport Always in closed, upright, secure containers. Ensure that persons transporting the product know what to do in case of an accident or spill. For information on safe handling, see sections 6 - 8

#### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Not for transport in bulk according to the IBC Code.

#### 14.8 Additional information

##### Land transport (ADR/RID)

Tunnel restriction code: D/E  
for containers < = 450 liters: E  
Special provisions SV 640C

##### Sea transport (IMDG)

EmS code: F-E, S-D

##### Air transport (ICAO-TI / IATA-DGR)

Not applicable

## SECTION 15: legal provisions

### 15.1 Safety, health, and environmental regulations/specific legislation for the substance or mixture

#### EU regulations

##### Information on employment restrictions

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for pregnant or breastfeeding women. Observe employment restrictions under the Youth Employment Protection Act (94/33/EC). Observe employment restrictions according to the Youth Employment Protection Act (94/33/EC).

##### Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]

VOC value 705.568 g/l

##### Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso III Directive]

##### Hazard categories / Named dangerous substances

P5c FLAMMABLE LIQUIDS

Quantity 1: 5,000 t; Quantity 2: 50,000 t

#### National regulations

##### Water hazard class

Hazardous to water (WGK 2)

### 15.1 Chemical safety assessment

A chemical safety assessment has been carried out for the following substances in this mixture:

#### REACH No. Substance name

01-2119471330-49 2-propanone; acetone; propanone

01-2119457290-43 butanone; ethyl methyl ketone

01-2119475103-46 ethyl acetate

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## SECTION 16: Other information

Wording of R, H, and EUH statements (number and full text)

H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

**Classification of mixtures and evaluation method used in accordance with Regulation (EC) No. 1272/2008**

### [CLP]

Flam. Liq. 2 Based on test data.

Eye Irrit. 2 Calculation method.

STOT SE 3 Calculation method.

Narcotic effect

Calculation method.

### Abbreviations and acronyms

For abbreviations and acronyms, see the list at <http://abk.esdscom.eu>

### Change notes

\* Data changed from the previous version