

Safety Data Sheet

according to the United Nations GHS (Rev. 9, 2021) Issue date: 9/28/2021 Revision date: 3/25/2022 Supersedes: 9/28/2021 Version: 1.1

SECTION 1: Identification

1.1. GHS Product identifier Product form : Mixture Product name : AS-1226 Shoe Adhesive UN-No. (ADR) : 1133 Product group : Trade product

1.2. Other means of identification

No additional information available

1.3. Recommended use of the che	mical and restrictions on use	
Use of the substance/mixture Recommended use	: Adhesives : Adhesives	
1.4. Supplier's details		

Manufacturer

Alseal Marketing Sdn. Bhd. Lot 53, Jalan Industri 2/2, Rawang Integrated Industrial Park, 48000 Rawang, Selangor, Malaysia. T +603-60942088 - F +603-60992930

1.5. Emergency phone number

No additional information available

SECTION 2: Hazard identification		
2.1. Classification of the substance or mixture		
Classification according to the United Nations GHS		
Flammable liquids, Category 2	H225	On basis of test data
Serious eye damage/eye irritation, Category 2	H319	Calculation method
Specific target organ toxicity – Single exposure, Category 3, NarcosisFull text of H-statements: see section 16Adverse physicochemical, human health and environmental effectsirritation.	H336 ble liquid and vapour,May cause drowsiness	Calculation method
2.2. GHS Label elements, including precautionary stateme	nts	
Labelling according to the United Nations GHS Hazard pictograms (GHS UN) :		

Signal word (GHS UN) Hazardous ingredients Hazard statements (GHS UN)

Precautionary statements (GHS UN)

- : Danger
- : butanone; ethyl methyl ketone; acetone; propan-2-one; propanone; methyl acetate
- : H225 Highly flammable liquid and vapour
 - H319 Causes serious eye irritation
 - H336 May cause drowsiness or dizziness
 - : P101 If medical advice is needed, have product container or label at hand.
 - P102 Keep out of reach of children.
 - P103 Read carefully and follow all instructions.

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

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P233 - Keep container tightly closed.

P240 - Ground and bond container and receiving equipment.

2.3. Other hazards which do not result in classification

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to the United Nations GHS
acetone; propan-2-one; propanone	CAS-No.: 67-64-1	30 – 50	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
butanone; ethyl methyl ketone	CAS-No.: 78-93-3	10 – 30	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
cyclohexanone	CAS-No.: 108-94-1	1 – 10	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332
methyl acetate	CAS-No.: 79-20-9	1 – 10	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336

Full text of H-statements: see section 16

SECTION 4: First-aid measures	
4.1. Description of necessary first-aid	measures
First-aid measures general First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion	 Call a poison center or a doctor if you feel unwell. Remove person to fresh air and keep comfortable for breathing. Rinse skin with water/shower. Take off immediately all contaminated clothing. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Call a poison center or a doctor if you feel unwell.
4.2. Most important symptoms/effects	s, acute and delayed
Symptoms/effects Symptoms/effects after eye contact	: May cause drowsiness or dizziness. : Eye irritation.
4.3. Indication of immediate medical attention and special treatment needed, if necessary	
Treat symptomatically.	

 SECTION 5: Fire-fighting measures

 5.1. Suitable extinguishing media

 Suitable extinguishing media
 : Dry powder. Foam. Carbon dioxide.

 Unsuitable extinguishing media
 : Water spray.

 5.2. Specific hazards arising from the chemical

 Fire hazard
 : Highly flammable liquid and vapour.

 Hazardous decomposition products in case of fire
 : Toxic fumes may be released.

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5.3. Special protective actions for fire-fighters

Protection during firefighting

: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures			
6.1. Personal precautions, protective equip	oment and emergency procedures		
6.1.1. For non-emergency personnel			
Emergency procedures	 Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. 		
6.1.2. For emergency responders			
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".		
6.2. Environmental precautions			
Avoid release to the environment.			
6.3. Methods and materials for containment	t and cleaning up		
Methods for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.		
Other information	: Dispose of materials or solid residues at an authorized site.		

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, includi	ng any incompatibilities
Technical measures Storage conditions	: Ground/bond container and receiving equipment. Store in a well-ventilated place. Keep cool, Keep container tightly closed. Store locked up

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

butanone; ethyl methyl ketone (78-93-3)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Butanone	
IOELV TWA (mg/m³)	600 mg/m³	
IOELV STEL (mg/m ³)	900 mg/m³	
IOELV STEL (ppm)	300 ppm	
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC	

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butanone; ethyl methyl ketone (78-93-3)			
USA - ACGIH - Occupational Exposure Limits			
Local name	Methyl ethyl ketone (MEK)		
ACGIH TWA (ppm)	200 ppm		
ACGIH STEL (ppm)	300 ppm		
Remark (ACGIH)	TLV® Basis: URT irr; CNS & PNS impair. Notations: BEI		
Regulatory reference	ACGIH 2021		
USA - ACGIH - Biological Exposure Indices			
Local name	METHYL ETHYL KETONE		
Biological Exposure Indices (BEI)	2 mg/l Parameter: Methyl ethyl ketone - Medium: urine - Sampling time: End of shift - Notations: Ns		
Regulatory reference	ACGIH 2021		
acetone; propan-2-one; propanone (67-64-1)			
EU - Indicative Occupational Exposure Limit (IOEL)			
Local name	Acetone		
IOELV TWA (mg/m³)	1210 mg/m³		
IOELV TWA (ppm)	500 ppm		
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC		
USA - ACGIH - Occupational Exposure Limits			
Local name	Acetone		
ACGIH TWA (ppm)	250 ppm		
ACGIH STEL (ppm)	500 ppm		
Remark (ACGIH)	TLV® Basis: URT & eye irr; CNS impair. Notations: A4 (Not classifiable as a Human Carcinogen); BEI		
Regulatory reference	ACGIH 2021		
USA - ACGIH - Biological Exposure Indices			
Local name	ACETONE		
Biological Exposure Indices (BEI)	25 mg/l Parameter: Acetone - Medium: urine - Sampling time: End of shift - Notations: Ns		
Regulatory reference	ACGIH 2021		
cyclohexanone (108-94-1)			
EU - Indicative Occupational Exposure Limit (IOEL)			
Local name	Cyclohexanone		
IOELV TWA (mg/m³)	40.8 mg/m³		
IOELV STEL (mg/m ³)	81.6 mg/m³		
IOELV STEL (ppm)	20 ppm		
Notes	Skin		
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC		
USA - ACGIH - Occupational Exposure Limits	·		
Local name	Cyclohexanone		
ACGIH TWA (ppm)	20 ppm		
ACGIH STEL (ppm)	50 ppm		

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cyclohexanone (108-94-1)		
Remark (ACGIH)	TLV® Basis: Eye & URT irr. Notations: Skin; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)	
Regulatory reference	ACGIH 2021	
USA - ACGIH - Biological Exposure Indices		
Local name	CYCLOHEXANONE	
Biological Exposure Indices (BEI)	80 mg/l Parameter: 1,2-Cyclohexanediol (with hydrolysis) - Medium: urine - Sampling time: End of shift at end of workweek - Notations: Ns, Sq 8 mg/l Parameter: Cyclohexanol (with hydrolysis) - Medium: urine - Sampling time: End of shift - Notations: Ns, Sq	
Regulatory reference	ACGIH 2021	
methyl acetate (79-20-9)		
USA - ACGIH - Occupational Exposure Limits		
Local name	Methyl acetate	
ACGIH TWA (ppm)	200 ppm	
ACGIH STEL (ppm)	250 ppm	
Remark (ACGIH)	TLV® Basis: Headache; dizziness; nausea; eye dam (degeneration of ganglion cells in the retina)	
Regulatory reference	ACGIH 2021	
8.2. Appropriate engineering controls		
Appropriate engineering controls:Environmental exposure controls:	Ensure good ventilation of the work station. Avoid release to the environment.	
8.3. Individual protection measures, such as	personal protective equipment (PPE)	
	Desta stice slaves	
Hand protection : Eye protection :	Protective gloves Safety glasses	
Skin and body protection :	Wear suitable protective clothing	
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment	
Personal protective equipment symbol(s)		
8.4. Exposure limit values for the other comp	onents	
No additional information available		
SECTION 9: Physical and chemical prop	erties	

· · · ·	
Physical state	: Liquid
Colour	: Colourless.
Odour	: Sweet-smelling.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: Not available
Boiling point	: > 56 °C
Flammability	: Highly flammable liquid and vapour.
Lower explosion limit	: Not available

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Upper explosion limit	· Not available
Flash point	: < 23 °C
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available
pH solution	: Not available
Viscosity, kinematic (calculated value) (40 °C)	: > 40 mm²/s
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: ≈ 0.86
Relative vapour density at 20°C	: Not available
Solubility	: Not available
Viscosity, dynamic	: 2000 – 3000 cP
Particle size	: Not applicable

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport. Highly flammable liquid and vapour.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7). Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information		
11.1. Information on toxicological effects		
Acute toxicity (dermal)	Not classified Not classified Not classified	
butanone; ethyl methyl ketone (78-93-3)		
LD50 oral rat	≈ 2193 mg/kg	
acetone; propan-2-one; propanone (67-64-1)		
LD50 oral rat	≈ 5800 mg/kg	
LD50 dermal rabbit	> 7400 mg/kg	
LC50 Inhalation - Rat	≈ 76 mg/l/4h	

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cyclohexanone (108-94-1) LD50 oral rat = 2650 mg/kg LD50 dermal rabbit = 3160 mg/kg LC50 Inhalation - Rat > 6.2 mg/l/4h methyl acetate (79-20-9) LD50 oral rat = 6482 mg/kg LD50 dermal rat > 2000 mg/kg LD50 dermal rat > 2000 mg/kg LC50 Inhalation - Rat > 49.2 mg/l Skin corrosion/irritation : Not classified Serious eye damage/irritation : Causes serious eye irritation. Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : May cause drowsiness or dizziness. butanone; ethyl methyl ketone (78-93-3) STOT-single exposure STOT-single exposure May cause drowsiness or dizziness. butanone; ethyl methyl ketone (78-64-1) STOT-single exposure STOT-single exposure May cause drowsiness or dizziness. methyl acetate (79-20-9) To in the interview in the interview in the interview.		
LD50 dermal rabbit ≈ 3160 mg/kg LC50 Inhalation - Rat > 6.2 mg/l/4h methyl acetate (79-20-9) LD50 oral rat ≈ 6482 mg/kg LD50 dermal rat > 2000 mg/kg LD50 lnhalation - Rat > 49.2 mg/l Skin corrosion/irritation : Not classified Serious eye damage/irritation : Causes serious eye irritation. Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure May cause drowsiness or dizziness. butanone; ethyl methyl ketone (78-93-3) STOT-single exposure STOT-single exposure May cause drowsiness or dizziness. acetone; propan-2-one; propanone (67-64-1) STOT-single exposure STOT-single exposure May cause drowsiness or dizziness.	cyclohexanone (108-94-1)	
LC50 Inhalation - Rat > 6.2 mg/l/4h methyl acetate (79-20-9)	LD50 oral rat	≈ 2650 mg/kg
methyl acetate (79-20-9) = 6482 mg/kg LD50 oral rat = 6482 mg/kg LD50 dermal rat > 2000 mg/kg LC50 Inhalation - Rat > 49.2 mg/l Skin corrosion/irritation : Not classified Serious eye damage/irritation : Causes serious eye irritation. Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : May cause drowsiness or dizziness. butanone; ethyl methyl ketone (78-93-3) STOT-single exposure STOT-single exposure May cause drowsiness or dizziness. acetone; propan-2-one; propanone (67-64-1) STOT-single exposure STOT-single exposure May cause drowsiness or dizziness.	.D50 dermal rabbit ≈ 3160 mg/kg	
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Skin corrosion/irritation : Not classified Serious eye damage/irritation : Causes serious eye irritation. Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : May cause drowsiness or dizziness. butanone; ethyl methyl ketone (78-93-3) STOT-single exposure STOT-single exposure May cause drowsiness or dizziness. acetone; propan-2-one; propanone (67-64-1) STOT-single exposure STOT-single exposure May cause drowsiness or dizziness. methyl acetate (79-20-9)	LD50 dermal rat	> 2000 mg/kg
Serious eye damage/irritation : Causes serious eye irritation. Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : May cause drowsiness or dizziness. butanone; ethyl methyl ketone (78-93-3) STOT-single exposure STOT-single exposure May cause drowsiness or dizziness. acetone; propan-2-one; propanone (67-64-1) STOT-single exposure STOT-single exposure May cause drowsiness or dizziness. methyl acetate (79-20-9) Image: Acetate (79-20-9)	LC50 Inhalation - Rat	> 49.2 mg/l
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Carcinogenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : May cause drowsiness or dizziness. butanone; ethyl methyl ketone (78-93-3) : STOT-single exposure STOT-single exposure May cause drowsiness or dizziness. acetone; propan-2-one; propanone (67-64-1) : STOT-single exposure STOT-single exposure May cause drowsiness or dizziness. methyl acetate (79-20-9) : May cause drowsiness or dizziness.	Respiratory or skin sensitisation : I	Not classified
Reproductive toxicity : Not classified STOT-single exposure : May cause drowsiness or dizziness. butanone; ethyl methyl ketone (78-93-3) STOT-single exposure May cause drowsiness or dizziness. acetone; propan-2-one; propanone (67-64-1) STOT-single exposure May cause drowsiness or dizziness. methyl acetate (79-20-9)	Germ cell mutagenicity : I	Not classified
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STOT-single exposure May cause drowsiness or dizziness. methyl acetate (79-20-9)	STOT-single exposure	May cause drowsiness or dizziness.
methyl acetate (79-20-9)	acetone; propan-2-one; propanone (67-64-1)	
	STOT-single exposure	May cause drowsiness or dizziness.
	methyl acetate (79-20-9)	
STOT-single exposure May cause drowsiness or dizziness.	STOT-single exposure	May cause drowsiness or dizziness.
STOT-repeated exposure : Not classified	STOT-repeated exposure : I	Not classified
Aspiration hazard : Not classified	Aspiration hazard : I	Not classified
AS-1226 Shoe Adhesive	AS-1226 Shoe Adhesive	
Viscosity, kinematic > 40 mm ² /s	Viscosity, kinematic	> 40 mm²/s

SECTION 12: Ecological information

12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long–term (chronic)	: Not classified
12.2. Persistence and degradability	
AS-1226 Shoe Adhesive	
Persistence and degradability	No additional information available
12.3. Bioaccumulative potential	
AS-1226 Shoe Adhesive	
Bioaccumulative potential	No additional information available

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12.4. Mobility in soil	
AS-1226 Shoe Adhesive	
Mobility in soil	No additional information available
12.5. Other adverse effects	
Ozone Other adverse effects	 Not classified No additional information available

SECTION	13: Disp	osal con	siderations

13.1. Disposal methods

Waste treatment methods Additional information

- Dispose of contents/container in accordance with licensed collector's sorting instructions.
 Flammable vapours may accumulate in the container.
- **SECTION 14: Transport information**

UN RTDG	IMDG	ΙΑΤΑ
14.1. UN number		
1133	1133 1133	
14.2. UN Proper Shipping Name	·	
ADHESIVES (containing flammable liquid)	ADHESIVES (containing flammable liquid)	Adhesives (containing flammable liquid)
Transport document description		
UN 1133 ADHESIVES (containing flammable liquid), 3, II	UN 1133 ADHESIVES (containing flammable liquid), 3, II	UN 1133 Adhesives (containing flammable liquid), 3, II
14.3. Transport hazard class(es)		
3	3	3
14.4. Packing group		
Ш	Ш	П
14.5. Environmental hazards		
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No
No supplementary information available	·	
14.6. Special precautions for user		
JN RTDG Limited quantities (UN RTDG) Excepted quantities (UN RTDG) Packing instruction (UN RTDG) Special packing provisions (UN RTDG) Portable tank and bulk container special Instructions (UN RTDG)	: 5L : E2 : P001, IBC02 : PP1 : T4	

(UN RTDG)

Portable tank and bulk container special provisions : TP1, TP8

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IMDG	
Limited quantities (IMDG)	: 5L
Excepted quantities (IMDG)	: E2
Packing instructions (IMDG)	: P001
Special packing provisions (IMDG)	: PP1
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1, TP8
EmS-No. (Fire)	: F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS
EmS-No. (Spillage)	: S-D - SPILLAGE SCHEDULE Delta - FLAMMABLE LIQUIDS
Stowage category (IMDG)	: B
Properties and observations (IMDG)	: Adhesives are solutions of gums, resins, etc., usually volatile due to the solvents. Miscibility with water depends upon their composition.

ΙΑΤΑ

PCA Excepted quantities (IATA)	:	E2
PCA Limited quantities (IATA)	:	Y341
PCA limited quantity max net quantity (IATA)	:	1L
PCA packing instructions (IATA)	:	353
PCA max net quantity (IATA)	:	5L
CAO packing instructions (IATA)	:	364
CAO max net quantity (IATA)	:	60L
Special provisions (IATA)	:	A3
ERG code (IATA)	:	3L

14.7. Transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations specific for the product in question

No additional information available

SECTION 16: Other information

Revision date	9/28/2021 3/25/2022 9/28/2021
Abbreviations and acronyms	 CAS-No Chemical Abstract Service number ATE - Acute Toxicity Estimate EC50 - Median effective concentration EC-No European Community number IATA - International Air Transport Association IMDG - International Maritime Dangerous Goods LC50 - Median lethal concentration LD50 - Median lethal dose LOAEL - Lowest Observed Adverse Effect Level N.O.S Not Otherwise Specified NOAEC - No-Observed Adverse Effect Level NOEC - No-Observed Adverse Effect Level NOEC - No-Observed Effect Concentration OEL - Occupational Exposure Limit SDS - Safety Data Sheet

Full text of H-statements:	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Flam. Liq. 3	Flammable liquids, Category 3

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Full text of H-statements:	
H225	Highly flammable liquid and vapour
H226	Flammable liquid and vapour
H319	Causes serious eye irritation
H332	Harmful if inhaled
H336	May cause drowsiness or dizziness

Safety Data Sheet (SDS), UN

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.