

Safety Data Sheet

according to the United Nations GHS (Rev. 9, 2021) Issue date: 8/6/2021 Revision date: 4/11/2023 Supersedes: 3/25/2022 Version: 2.0

SECTION 1: Identification

1.1. GHS Product identifier

Product form	:	Mixture
Product name	:	AS-1225 Contact 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 chemical 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
Skin corrosion/irritation, Category 2	H315	Calculation method
Serious eye damage/eye irritation, Category 2	H319	Calculation method
Skin sensitisation, Category 1	H317	Calculation method
Reproductive toxicity, Category 2	H361	Calculation method
Specific target organ toxicity – Single exposure, Category 3, Narcosis	H336	Calculation method
Specific target organ toxicity – Repeated exposure, Category 2	H373	Calculation method
Aspiration hazard Not classified		Calculation method
Hazardous to the aquatic environment – Acute Hazard, Category 1	H400	Calculation method
Hazardous to the aquatic environment – Chronic Hazard, Category 1	H410	Calculation method
Full text of H-statements: see section 16 Adverse physicochemical, human health and : Highly flammal	ble liquid and vapour,Suspected of damagi	ag fortility or the unhorn shild May

cause damage to organs through prolonged or repeated exposure, May cause drowsiness or

dizziness,Causes skin irritation,May cause an allergic skin reaction,Causes serious eye

irritation, Very toxic to aquatic life with long lasting effects.

2.2. GHS Label elements, including precautionary statements



environmental effects

Safety Data Sheet

according to the United Nations GHS (Rev. 9, 2021)

Hazardous ingredients	 cyclohexane; butanone; ethyl methyl ketone; NAPHTHA (PETROLEUM), HYDROTREATED LIGHT; P-TERT-BUTYLPHENOL-FORMALDEHYDE RESIN
Hazard statements (GHS UN)	: H225 - Highly flammable liquid and vapour
	H315 - Causes skin irritation
	H317 - May cause an allergic skin reaction
	H319 - Causes serious eye irritation
	H336 - May cause drowsiness or dizziness
	H361 - Suspected of damaging fertility or the unborn child (Inhalation)
	H373 - May cause damage to organs (nervous system) through prolonged or repeated exposure (Inhalation)
	H410 - Very toxic to aquatic life with long lasting effects
Precautionary statements (GHS UN)	: 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.
	P203 - Obtain, read and follow all safety instructions before use.
	P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
	No smoking.
	P233 - Keep container tightly closed.

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
cyclohexane	CAS-No.: 110-82-7	10 – 30	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
butanone; ethyl methyl ketone	CAS-No.: 78-93-3	10 – 30	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
NAPHTHA (PETROLEUM), HYDROTREATED LIGHT	CAS-No.: 64742-49-0	10 – 30	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
P-TERT-BUTYLPHENOL-FORMALDEHYDE RESIN	CAS-No.: 25085-50-1	1 – 10	Skin Sens. 1, H317

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: IF exposed or concerned: Get medical advice/attention.First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing.First-aid measures after skin contact: Rinse skin with water/shower. Take off immediately all contaminated clothing. If skin
irritation or rash occurs: Get medical advice/attention.

Safety Data Sheet

according to the United Nations GHS (Rev. 9, 2021)
First-aid measures after eye contact	: 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.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.
4.2. Most important symptoms/effect	s, acute and delayed
Symptoms/effects	: May cause drowsiness or dizziness.
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: 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 Unsuitable extinguishing media	Dry powder. Foam. Carbon dioxide.Water spray.	
5.2. Specific hazards arising from the chemical		
Fire hazard Hazardous decomposition products in case of fire	Highly flammable liquid and vapour.Toxic fumes may be released.	
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 equipment and emergency procedures			
6.1.1. For non-emergency personnel			
Emergency procedures	: Ventilate spillage area. No open flames, no sparks, and no smoking. Do not breathe 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 and cleaning up			
For containment Methods for cleaning up	 Collect spillage. 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.

Safety Data Sheet

according to the United Nations GHS (Rev. 9, 2021)

SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Precautions for safe handling Hygiene measures	 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. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. 	
7.2. Conditions for safe storage, including 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

cyclohexane (110-82-7)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Cyclohexane	
IOELV TWA (mg/m³)	700 mg/m³	
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC	
USA - ACGIH - Occupational Exposure Limits		
Local name	Cyclohexane	
ACGIH TWA (ppm)	100 ppm	
Remark (ACGIH)	TLV® Basis: CNS impair	
Regulatory reference	ACGIH 2021	
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	
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	

Safety Data Sheet

according to the United Nations GHS (Rev. 9, 2021)

butanone; ethyl methyl ketone (78-93-3)		
Biological Exposure Indices (BEI)	2 mg/l Parameter: Methyl ethyl ketone - Medium: urine - Sampling time: End of shift - Notations: Ns	
Regulatory reference	ACGIH 2021	
NAPHTHA (PETROLEUM), HYDROTREATED LIGHT (64742-49-0)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Cyclohexane	
IOELV TWA (mg/m ³)	700 mg/m³	
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC	
USA - ACGIH - Occupational Exposure Limits		
Local name	Cyclohexane	
ACGIH TWA (ppm)	100 ppm	
Remark (ACGIH)	TLV® Basis: CNS impair	
Regulatory reference	ACGIH 2021	
USA - ACGIH - Biological Exposure Indices		
Local name	n-HEXANE	
Biological Exposure Indices (BEI)	0.5 mg/l Parameter: 2,5-Hexanedione (without hydrolysis) - Medium: urine - Sampling time: End of shift	
Regulatory reference	ACGIH 2021	
xposure limit values for the other components		
n-hexane (110-54-3)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	n-Hexane	
IOELV TWA (mg/m³)	72 mg/m³	
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC	
USA - ACGIH - Occupational Exposure Limits		
Local name	n-Hexane	
ACGIH TWA (ppm)	50 ppm	
Remark (ACGIH)	TLV® Basis: CNS impair; peripheral neuropathy; eye irr. Notations: Skin; BEI	
Regulatory reference	ACGIH 2021	
USA - ACGIH - Biological Exposure Indices	· · · · · · · · · · · · · · · · · · ·	
Local name	n-HEXANE	
Biological Exposure Indices (BEI)	0.5 mg/l Parameter: 2,5-Hexanedione (without hydrolysis) - Medium: urine - Sampling time: End of shift	
Regulatory reference	ACGIH 2021	
8.2. Appropriate engineering controls		
	Ensure good ventilation of the work station. Avoid release to the environment.	
8.3. Individual protection measures, such as p	ersonal protective equipment (PPE)	
Hand protection :	Protective gloves	

Safety Data Sheet

according to the United Nations GHS (Rev. 9, 2021)

Eye protection

Skin and body protection Respiratory protection

- : Safety glasses
- : Wear suitable protective clothing
- : [In case of inadequate ventilation] wear respiratory protection.

Personal protective equipment symbol(s)



8.4. Exposure limit values for the other components

n-hexane (110-54-3)		
EU	Local name	n-Hexane
EU	IOELV TWA (mg/m ³)	72 mg/m³
USA - ACGIH	Local name	n-Hexane
USA - ACGIH	ACGIH TWA (ppm)	50 ppm
USA - ACGIH	Remark (ACGIH)	TLV® Basis: CNS impair; peripheral neuropathy; eye irr. Notations: Skin; BEI

SECTION 9: Physical and chemical properties

Physical state	. Liquid
Physical state Colour	: Liquid
	: Pale yellow.
Odour	: Characteristic.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: Not available
Boiling point	: > 68 °C
Flammability	: Highly flammable liquid and vapour
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: < 23 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: Not available
рН	: Not applicable
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	: ≈ 0.82
Relative vapour density at 20°C	: No data available
Solubility	: Not available
Viscosity, dynamic	: 3800 – 4800 cP
Particle size	: Not applicable

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Highly flammable liquid and vapour.

Safety Data Sheet

according to the United Nations GHS (Rev. 9, 2021)

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

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	
	Not classified
Acute toxicity (dermal) :	Not classified Not classified
	Not classified
butanone; ethyl methyl ketone (78-93-3)	
LD50 oral rat	≈ 2193 mg/kg
Skin corrosion/irritation :	Causes skin irritation.
	pH: Not applicable
	Causes serious eye irritation.
	pH: Not applicable
	May cause an allergic skin reaction. Not classified
- 0)	Not classified
	Suspected of damaging fertility or the unborn child (Inhalation).
	May cause drowsiness or dizziness.
cyclohexane (110-82-7)	
STOT-single exposure	May cause drowsiness or dizziness.
butanone; ethyl methyl ketone (78-93-3)	
STOT-single exposure	May cause drowsiness or dizziness.
NAPHTHA (PETROLEUM), HYDROTREATED I	LIGHT (64742-49-0)
STOT-single exposure	May cause drowsiness or dizziness.
	May cause damage to organs (nervous system) through prolonged or repeated exposure (Inhalation).
NAPHTHA (PETROLEUM), HYDROTREATED I	LIGHT (64742-49-0)
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard :	Not classified.
AS-1225 Contact Adhesive	
Viscosity, kinematic	> 40 mm²/s

Safety Data Sheet

according to the United Nations GHS (Rev. 9, 2021)

SECTION 12: Ecological information

12.1. Toxicity	
Ecology - general Hazardous to the aquatic environment, short-term (acute)	Very toxic to aquatic life with long lasting effects.Very toxic to aquatic life.
Classification procedure (Hazardous to the aquatic environment, short–term (acute))	: Calculation method
Hazardous to the aquatic environment, long–term (chronic)	: Very toxic to aquatic life with long lasting effects.
Classification procedure (Hazardous to the aquatic environment, long-term (chronic))	: Calculation method
12.2. Persistence and degradability	
AS-1225 Contact Adhesive	
Persistence and degradability	No additional information available
12.3. Bioaccumulative potential	
AS-1225 Contact Adhesive	

Bioaccumulative potential	No additional information available
12.4. Mobility in soil	
AS-1225 Contact Adhesive	
Mobility in soil	No additional information available
12.5. Other adverse effects	
	Not classified No additional information available

SECTION 13: Disposal considerations	
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

In accordance with UN RTDG / IMDG / IATA		
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, ENVIRONMENTALLY HAZARDOUS	UN 1133 ADHESIVES (containing flammable liquid), 3, II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS	UN 1133 Adhesives (containing flammable liquid), 3, II, ENVIRONMENTALLY HAZARDOUS

Safety Data Sheet

according to the United Nations GHS (Rev. 9, 2021)

UN RTDG	IMDG	ΙΑΤΑ
14.3. Transport hazard class(es)		1
3	3	3
14.4. Packing group		
II	П	11
14.5. Environmental hazards		
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes
No supplementary information available		1
14.6. Special precautions for user		
UN 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) Portable tank and bulk container special provisions (UN RTDG) IMDG Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) Special packing provisions (IMDG) IBC packing instructions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire)	: 5 L : E2 : P001 : PP1 : IBC02 : T4 : TP1, TP8 : F-E - FIRE SCHEDULE Echo - NON-WAT	
EmS-No. (Spillage) Stowage category (IMDG) Properties and observations (IMDG)	 S-D - SPILLAGE SCHEDULE Delta - FLAN B Adhesives are solutions of gums, resins, e with water depends upon their composition 	tc., usually volatile due to the solvents. Miscibilit
IATA PCA Excepted quantities (IATA) PCA Limited quantities (IATA) PCA limited quantity max net quantity (IATA) PCA packing instructions (IATA) PCA max net quantity (IATA) CAO packing instructions (IATA) CAO max net quantity (IATA) Special provisions (IATA) ERG code (IATA)	: E2 : Y341 : 1L : 353 : 5L : 364 : 60L : A3 : 3L	

Not applicable

Safety Data Sheet

according to the United Nations GHS (Rev. 9, 2021)

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	: 8/6/2021 : 4/11/2023 : 3/25/2022
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 concentration LD50 - Median lethal dose LOAEL - Lowest Observed Adverse Effect Level NO.S Not Otherwise Specified NOAEC - No-Observed Adverse Effect Concentration NOAEL - No-Observed Effect Level NOEC - No-Observed Effect Level NOEC - No-Observed Effect Concentration OEL - Occupational Exposure Limit SDS - Safety Data Sheet

Full text of H-statements:	
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1
H225	Highly flammable liquid and vapour
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness
H361	Suspected of damaging fertility or the unborn child
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects

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.