

### SECTION 1: Identification of the hazardous chemical and of the supplier

#### 1.1. Product identifier

Name : AS-1225 Contact Adhesive

#### 1.2. Other means of identification

No additional information available

#### 1.3. Recommended use of the chemical and restrictions on use

Recommended use : Adhesives

#### 1.4. Supplier 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  
[info@alsealmarketing.com](mailto:info@alsealmarketing.com)

#### 1.5. Emergency phone number

No additional information available

### SECTION 2: Hazards identification

#### 2.1. Classification of the hazardous chemical

##### Classification according to Industry Code of Practice on chemicals classification and hazard communication (2019)

Flammable liquids, Category 2	H225
Skin corrosion or irritation, Category 2	H315
Serious eye damage or eye irritation, Category 2	H319
Skin sensitisation, Category 1	H317
Reproductive toxicity, Category 2	H361
Specific target organ toxicity – Single exposure, Category 3, Narcosis	H336
Specific target organ toxicity – Repeated exposure, Category 2	H373
Hazardous to the aquatic environment – Acute Hazard, Category 1	H400
Hazardous to the aquatic environment – Chronic Hazard, Category 1	H410

#### 2.2. Label elements

##### Labelling according to Industry Code of Practice on chemicals classification and hazard communication (2019)

Hazard pictograms (GHS MY) :



Signal word (GHS MY) :

Danger

Contains

cyclohexane; butanone; ethyl methyl ketone; NAPHTHA (PETROLEUM), HYDROTREATED LIGHT; P-TERT-BUTYLPHENOL-FORMALDEHYDE RESIN

Hazard statements (GHS MY) :

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. (if inhaled).  
H373 - May cause damage to organs (nervous system) through prolonged or repeated

# AS-1225 Contact Adhesive

## Safety Data Sheet

according to ICOP 2014,2019

Precautionary statements (GHS MY)

- exposure (if inhaled).  
H410 - Very toxic to aquatic life with long lasting effects.  
: P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.  
No smoking.  
P233 - Keep container tightly closed.  
P240 - Ground/bond container and receiving equipment.  
P241 - Use explosion-proof electrical/ventilating/lighting equipment.

### 2.3. Other hazards that do not result in classification

No additional information available

## SECTION 3: Composition and information of the ingredients of the hazardous chemical

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Industry Code of Practice on chemicals classification and hazard communication (2019)
cyclohexane	CAS-No.: 110-82-7	10 – 30	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Haz., H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
butanone; ethyl methyl ketone	CAS-No.: 78-93-3	10 – 30	Flam. Liq. 2, H225 Acute Tox. Not classified (Oral) 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, H361f STOT SE 3, H336 STOT RE 2, H373 Asp. Haz., H304 Aquatic Chronic 2, H411
P-TERT-BUTYLPHENOL-FORMALDEHYDE RESIN	CAS-No.: 25085-50-1	1 – 10	Skin Sens. 1, H317

## 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.  
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/effects, acute and delayed

- Symptoms/effects : May cause drowsiness or dizziness.

# AS-1225 Contact Adhesive

## Safety Data Sheet

according to ICOP 2014,2019

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

Other medical advice or treatment : 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. Physicochemical hazards arising from the chemical

Fire hazard : Highly flammable liquid and vapour.  
Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Special protective equipment and precautions for fire fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.  
EAC code : •3YE

## 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 : Collect spillage.  
Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

## 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. 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.  
Hygiene measures : 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.

# AS-1225 Contact Adhesive

## Safety Data Sheet

according to ICOP 2014,2019

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Ground/bond container and receiving equipment.
Storage conditions	: Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

## SECTION 8: Exposure controls and personal protection

### 8.1. Control parameters

cyclohexane (110-82-7)	
<b>Malaysia - Occupational Exposure Limits</b>	
Local name	Sikloheksana # Cyclohexane
PEL TWA (mg/m <sup>3</sup> )	1030 mg/m <sup>3</sup>
PEL TWA (ppm)	300 ppm
MEL (mg/m <sup>3</sup> )	3090 mg/m <sup>3</sup>
MEL (ppm)	900 ppm
<b>USA - ACGIH - Occupational Exposure Limits</b>	
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)	
<b>Malaysia - Occupational Exposure Limits</b>	
Local name	Metil etil keton (MEK) (2-Butanon) # Methyl ethyl ketone (MEK) (2-Butanone)
PEL TWA (mg/m <sup>3</sup> )	590 mg/m <sup>3</sup>
PEL TWA (ppm)	200 ppm
MEL (mg/m <sup>3</sup> )	1770 mg/m <sup>3</sup>
MEL (ppm)	600 ppm
<b>USA - ACGIH - Occupational Exposure Limits</b>	
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
<b>USA - ACGIH - Biological Exposure Indices</b>	
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
NAPHTHA (PETROLEUM), HYDROTREATED LIGHT (64742-49-0)	
<b>Malaysia - Occupational Exposure Limits</b>	
Local name	Sikloheksana # Cyclohexane
PEL TWA (mg/m <sup>3</sup> )	1030 mg/m <sup>3</sup>
PEL TWA (ppm)	300 ppm

# AS-1225 Contact Adhesive

## Safety Data Sheet

according to ICOP 2014,2019

<b>NAPHTHA (PETROLEUM), HYDROTREATED LIGHT (64742-49-0)</b>	
MEL (mg/m <sup>3</sup> )	3090 mg/m <sup>3</sup>
MEL (ppm)	900 ppm
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Local name	Cyclohexane
ACGIH TWA (ppm)	100 ppm
Remark (ACGIH)	TLV® Basis: CNS impair
Regulatory reference	ACGIH 2021
<b>USA - ACGIH - Biological Exposure Indices</b>	
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

### Exposure limit values for the other components

<b>n-hexane (110-54-3)</b>		
<b>Malaysia - Occupational Exposure Limits</b>		
Local name	n-Heksana # n-Hexane	
PEL TWA (mg/m <sup>3</sup> )	176 mg/m <sup>3</sup>	
PEL TWA (ppm)	50 ppm	
MEL (mg/m <sup>3</sup> )	528 mg/m <sup>3</sup>	
MEL (ppm)	150 ppm	
Remark (MY)	(kulit # skin)	
<b>USA - ACGIH - Occupational Exposure Limits</b>		
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	
<b>USA - ACGIH - Biological Exposure Indices</b>		
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	

### 8.1.1 Biological monitoring

No additional information available

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

### 8.3. Individual protection measures, such as PPE

<b>Hand protection:</b>
Protective gloves

# AS-1225 Contact Adhesive

## Safety Data Sheet

according to ICOP 2014,2019

### Eye protection:

Safety glasses

### Skin and body protection:

Wear suitable protective clothing

### Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

### Personal protective equipment symbol(s):



Environmental exposure controls

: Avoid release to the environment.

## SECTION 9: Physical and chemical properties

Physical state	: Liquid
Appearance	: No data available
Colour	: Pale yellow
Odour	: Characteristic
Odour threshold	: No data available
pH	: Not applicable
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: > 68 °C
Flash point	: < 23 °C
Evaporation rate	: No data available
Flammability (solid, gas)	: Not applicable
Explosive limits	: No data available
Vapour pressure	: No data available
Relative vapour density at 20°C	: No data available
Relative density	: ≈ 0,82
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Partition coefficient n-octanol/water (Log Kow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: > 40 mm <sup>2</sup> /s
Viscosity, dynamic	: 3800 – 4800 cP

## SECTION 10: Stability and reactivity

Reactivity	: Highly flammable liquid and vapour.
Chemical stability	: Stable under normal conditions
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use
Conditions to avoid	: Avoid contact with hot surfaces, Heat, No flames, no sparks. Eliminate all sources of ignition
Incompatible materials	: No additional information available
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced

# AS-1225 Contact Adhesive

## Safety Data Sheet

according to ICOP 2014,2019

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

#### butanone; ethyl methyl ketone (78-93-3)

LD50 oral rat	≈ 2193 mg/kg
Skin corrosion/irritation	: Causes skin irritation. pH: Not applicable
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory sensitization	: Not classified
Skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Suspected of damaging fertility. (if inhaled).
STOT-single exposure	: May cause drowsiness or dizziness.

#### cyclohexane (110-82-7)

STOT-single exposure	May cause drowsiness or dizziness.
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#### butanone; ethyl methyl ketone (78-93-3)

STOT-single exposure	May cause drowsiness or dizziness.
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#### NAPHTHA (PETROLEUM), HYDROTREATED LIGHT (64742-49-0)

STOT-single exposure	May cause drowsiness or dizziness.
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STOT-repeated exposure : May cause damage to organs (nervous system) through prolonged or repeated exposure (if inhaled).

#### NAPHTHA (PETROLEUM), HYDROTREATED LIGHT (64742-49-0)

STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
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Aspiration hazard : Not classified.

#### AS-1225 Contact Adhesive

Viscosity, kinematic	> 40 mm <sup>2</sup> /s
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### SECTION 12: Ecological information

#### 12.1. Ecotoxicity

Ecology - general : Very toxic to aquatic life with long lasting effects.  
Hazardous to the aquatic environment, short-term (acute) : Very toxic to aquatic life.  
Hazardous to the aquatic environment, long-term (chronic) : Very toxic to aquatic life with long lasting effects.

#### 12.2. Persistence and degradability

#### AS-1225 Contact Adhesive

Persistence and degradability	No additional information available
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#### 12.3. Bioaccumulative potential

#### AS-1225 Contact Adhesive

Bioaccumulative potential	No additional information available
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# AS-1225 Contact Adhesive

## Safety Data Sheet

according to ICOP 2014,2019

### 12.4. Mobility in soil

#### AS-1225 Contact Adhesive

Mobility in soil	No additional information available
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### 12.5. Other adverse effects

Ozone : Not classified  
Other adverse effects : No additional information available

## SECTION 13: Disposal information

### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.  
Additional information : Flammable vapours may accumulate in the container.

## SECTION 14: Transportation information

In accordance with IMDG / IATA / UN RTDG

### 14.1. UN number

UN-No.(UN RTDG) : 1133  
UN-No. (IMDG) : 1133  
UN-No. (IATA) : 1133

### 14.2. UN proper shipping name

Proper Shipping Name (UN RTDG) : ADHESIVES (containing flammable liquid)  
Proper Shipping Name (IMDG) : ADHESIVES (containing flammable liquid)  
Proper Shipping Name (IATA) : Adhesives (containing flammable liquid)  
Transport document description (UN RTDG) : UN 1133 ADHESIVES (containing flammable liquid), 3, II, ENVIRONMENTALLY HAZARDOUS  
Transport document description (IMDG) : UN 1133 ADHESIVES (containing flammable liquid), 3, II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS  
Transport document description (IATA) : UN 1133 Adhesives (containing flammable liquid), 3, II, ENVIRONMENTALLY HAZARDOUS

### 14.3. Transport hazard class(es)

#### UN RTDG

Transport hazard class(es) (UN RTDG) : 3  
Danger labels (UN RTDG) : 3



#### IMDG

Transport hazard class(es) (IMDG) : 3  
Danger labels (IMDG) : 3



#### IATA

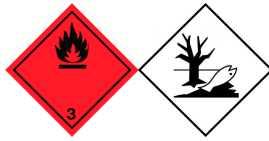
Transport hazard class(es) (IATA) : 3  
Danger labels (IATA) : 3



# AS-1225 Contact Adhesive

## Safety Data Sheet

according to ICOP 2014,2019



### 14.4. Packing Group, if applicable

Packing group (UN RTDG)	: II
Packing group (IMDG)	: II
Packing group (IATA)	: II

### 14.5. Environmental hazards

Dangerous for the environment	: Yes
Marine pollutant	: Yes
Other information	: No supplementary information available

### 14.6. Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)

Not applicable

### 14.7. Special precautions for user

#### UN RTDG

Limited quantities (UN RTDG)	: 5L
Excepted quantities (UN RTDG)	: E2
Packing instruction (UN RTDG)	: P001, IBC02
Special packing provisions (UN RTDG)	: PP1
Portable tank and bulk container special instructions (UN RTDG)	: T4
Portable tank and bulk container special provisions (UN RTDG)	: TP1, TP8

#### IMDG

Limited quantities (IMDG)	: 5 L
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.

#### IATA

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

### 14.8. Hazchem or Emergency Action Code

EAC code	: •3YE.
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# AS-1225 Contact Adhesive

## Safety Data Sheet

according to ICOP 2014,2019

### SECTION 15: Regulatory information

#### 15.1. Safety, health, and environmental regulations specific for the hazardous chemical in question

AS-1225 Contact Adhesive		
Regulation		Component/ Mixture
Environmental Quality (Chlorofluorocarbons Prohibition) Order 1993	Not applicable	AS-1225 Contact Adhesive
Environmental Quality (Industrial Effluent) Regulations 2009		AS-1225 Contact Adhesive
Environmental Quality (Scheduled Wastes) Regulations 2007		AS-1225 Contact Adhesive
Control of Industrial Major Accident Hazards Regulations 1996		AS-1225 Contact Adhesive
Prohibition of Use of Substance Order 1999		AS-1225 Contact Adhesive
Use and Standards of Exposure of Chemical Hazardous to Health Regulations 2000		AS-1225 Contact Adhesive
Chemical Weapons Convention Act		AS-1225 Contact Adhesive
Corrosive and Explosive Substances and Offensive Weapons Act		AS-1225 Contact Adhesive
Dangerous Drugs Act		AS-1225 Contact Adhesive
Pesticides Act		AS-1225 Contact Adhesive
Petroleum (Safety Measures) Act		AS-1225 Contact Adhesive
Poisons Act 1952		AS-1225 Contact Adhesive
Poisons (Psychotropic Substances) Regulations 1989		AS-1225 Contact Adhesive

#### 15.2. International agreements

No additional information available

### SECTION 16: Other information

Version	: 3.0
Issue date	: 19.11.2020
Revision date	: 11.04.2023
Supersedes	: 25.03.2022

Full text of H-statements	
Acute Tox. Not classified (Oral)	Acute toxicity (oral) Not classified
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Asp. Haz.	Aspiration hazard, Category 1
Repr. 2	Reproductive toxicity, Category 2
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.

# AS-1225 Contact Adhesive

## Safety Data Sheet

according to ICOP 2014,2019

Full text of H-statements	
H361	Suspected of damaging fertility or the unborn child.
H361f	Suspected of damaging fertility.
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), Malaysia

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.