AM-Glue Safety Data Sheet

1. Identification of the Substance and of the Company/Undertaking

a. Product Name: *AM-Glue*

b. Recommended use and restriction of use
Contact Adhesive for processing all flexible insulation materials for aircon installation

c. Supplier's detail:
Company name : Aircon Materials Asia Pte Ltd
Address : 50 Kallang Pudding Road, #01-01, AMA Building, S349326
Website/Email : sales@amasia.com.sg
Contact no : (65)6743 4456
Fax : (65)6743 9949

2. Hazards Identification

a. Classification of The Substance or Mixture

Physical Hazard	Flammable liquid	Cat 3
Health Hazard	Acute toxicity (oral)	Cat 4
	Acute toxicity (dermal)	Cat 4
	Acute toxicity (inhalation)	Cat 4
	Skin corrosion or irritation	Cat 2
	Skin sensitization	Cat 1

b. Label Elements
Hazard Pictograms:

Signal Word: DANGER

Hazard Statement:
H225: Highly flammable liquid and vapour.
H302: Harmful if swallowed.
H332: Harmful if inhaled.
H315: Causes skin irritation.
H320: Causes eye irritation.

H336: May cause drowsiness and dizziness.
H304: May be fatal if swallowed and enter airways.

Precautionary Statement (Prevention):
P210: Keep away from heat/sparks/open flames/hot surfaces-No smoking.
P233: Keep container tightly closed.
P241: Use explosion-proof electrical/ventilating/lighting equipment.
P242: Use only non-sparking tools.
P243: Take precautionary measures against static discharge.
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P264: Wash thoroughly after handling.
P270: Do not eat, drink, or smoke when using this product.
P271: Use only outdoors or in a well-ventilated area.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P362: Take off contaminated clothing and wash before reuse.

Precautionary Statement (Response):
P370 + P378: In case of fire, Use carbon dioxide, chemical powder, or foam for extinction.
P302 + P352: IF ON SKIN, wash plenty with soap and water.
P303 + P361 + P353: IF ON SKIN (or hair), remove/take off immediately all contaminated clothing, and rinse skin with water/shower.
P304 + P340: IF INHALED, remove victim to fresh air and keep at rest in a position 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 rising.
P312: Call a POISON CENTER or doctor/physician if you feel unwell.
P313: Get medical advice/attention.
P332 + P313: If skin irritation occurs, get medical advice/attention.

Precautionary Statement (Storage):
P403 + P235 + P233: Store in a well-ventilated place. Keep cool and tightly closed.

Precautionary Statement (Disposal):
P501: Dispose of contents/container in accordance with local regulations.

c. Effect of Exposure

Inhalation: May cause allergic or asthma symptoms or breathing difficulties if inhaled, causing respiratory irritation, drowsiness, and dizziness.

Skin: Frequent / prolonged contact may cause irritation or dermatitis.

Eyes: Splashes in eyes may cause temporary irritation or discomfort.

Ingestion: Possibility of fatality if swallowed and enter airways.

3. Composition and Information on Ingredients

a. General Chemical Description

AM-Glue contains flammable and harmful petroleum solvent mixture. It is special elastomer-based adhesive preparation in petroleum solvent mixture.

b. Mixture Identity

Substance	CAS No.	% by Weight
Chloroprene Rubber	09010-98-4	15-30%
Toluene	108-88-3	70-85%

4. First-aid Measures

a. Inhalation: Move person to fresh air. Keep warm and at rest. Do not allow to smoke. Obtain medical advice.

b. Skin Contact: Wipe off excess and wash with soap and water. Proprietary skin cleansers may help removal from skin – Do not use solvents. Obtain medical advice if skin irritation persists.

c. Eyes Contact: Flush immediately with plenty of water or saline eye wash solution and continue rinsing for ten minutes. Obtain medical advice.

d. Ingestion: Clear material mouth and throat and obtain immediate medical attention. Do not induce vomiting.

5. Fire-fighting Measures

a. Extinguishing Media

Fire can be extinguished using: carbon dioxide, chemical powder, foam, water fog. Do not use water jet.

b. Specific Hazards Arising from The Substance

Unusual Fire & Explosion Hazards: Keep a considerable distance to the source of ignition. Heat may cause the container to explode.

Combustion Products: Smoke, Carbon monoxide (CO), Carbon Dioxide (CO_2), chlorinated polymer combustion and degradation products including hydrochloric acid fumes.

c. Special Protective Equipment and Precautions for Fire-fighters

Cool closed containers in vicinity of fire with water spray. Wear breathing equipment if significant amounts are involved.

6. Accidental Release Measures

a. Personal Precautions, Protective Equipment and Emergency Procedures

Eliminate sources of ignition and ventilate the area. Wear protective clothing as described in Section 8 of this safety data sheet.

b. Environmental Precautions

Avoid release to the environment. Collect spillage.

c. Methods and Materials for Containment and Cleaning Up

Avoid contact with skin and inhalation. Dispose of contents/container in accordance with local regulations.

d. Reference to Other Sections

Wear protecting clothing as described in Section 8 of this safety data sheet.

7. Handling and Storage

a. Precautions for Safe Handling

Personal precautions

Respiratory: Exposure to solvent vapours should be controlled by general and / or local exhaust ventilation. Where this is not practicable, suitable respirators must be worn.
Skin: Wear suitable gloves if skin contact cannot be avoided.
Eyes: Avoid contact.
Other Precautions: See Section 8: Exposure Controls and Personal Protection

Fire Precautions

The solvent vapours are highly flammable and heavier that air. Keep away from sources of ignition – flames, sparks, hot surfaces, electrical equipment, heating appliances, extinguish pilot lights.
Maintain efficient ventilation / extraction using flame proof equipment where necessary. Equipment / machinery should be earthed to prevent static electricity build – up. Close container firmly after use.

b. Conditions for Safe Storage, Including Any Incompatibilities

Store in tightly closed container in a cool well-ventilated place.

8. Exposure Controls and Personal Protection

a. Control Parameters

Substance	Source	Ppm
Chloroprene Rubber	None Listed	None Listed
Toluene	OSHA PEL (TWA)	200 ppm

b. Exposure Controls

Engineering Measures: Local exhaust is recommended. Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of the inhalation of vapours.

Individual Protective Equipment:

c. Individual Protection

Respiratory Protective Equipment

Half – mask respirators fitted with the appropriate A1 or A2 organic vapour cartridge are suitable for general use. Airline or self – contained breathing equipment could be required under extreme conditions and for emergency use. Check suitability with equipment suppliers / manufacturers.

Hand Protection

Nitrite rubber gloves generally provide good solvent resistance but can be degraded by certain solvents – particularly ketenes. Check manufacturers recommendation.

Eyes Protection

Wear safety spectacles / goggles as appropriate.

Skin and Body Protection

Wear suitable protective clothing, e.g. apron and overalls and launder regularly. Discard heavily contaminated clothing immediately. Do not wear nylon, rayon or other synthetic fibres based or silk outer clothing which may generated static electricity.

Hygiene Measures

Wash thoroughly after handling. Wash hands at the end of each work shift before eating, smoking, and using the toilet.

Other Information

When using, do not eat, drink, or smoke.

9. Physical and Chemical Properties

Information on basic physical and chemical properties:

Physical State	Liquid

Appearance	Black, non-transparent
Odour	Aromatic
Viscosity (30˚C)	6000 ± 500 cps
Solid content	22 ± 2%
Solubility (25˚C)	Insoluble in water
Boiling Temperature(hPa)	66-115 ˚C
Flash Point	28.0
Melting Point	No data
Vapour Pressure / mm or Hg (25˚C)	No data
Specific Gravity	0.79
Auto-ignition Temperature	No data
Flammable limit / %	No data

10. Stability and Reactivity

a. Reactivity
No specific reactivity hazardous changes over an indefinite period of normal storage.

b. Chemical Stability
Avoid heat, sparks, and flames. Stable under normal temperature conditions. Solvent evaporation will occur from improperly closed containers.

c. Possibility of Hazardous Reactions
Not applicable.

d. Conditions to Avoid
Avoid contact with acids.

e. Incompatible Materials
Materials To Avoid. Strong acids.

f. Hazardous Decomposition Method
Fire creates: Carbon monoxide (CO), Carbon Dioxide (CO2).

11. Toxicological Information

a. Information on Toxicological Effects
Inhalation:
Inhalation is the most significant route of exposure to solvents. Acute or immediate symptoms of over exposure causing breathing difficulties, mild respiratory tract irritation, drowsiness, and dizziness, allergic or asthma symptoms.

Petroleum Hydrocarbon Distillate:
This solvent consists essentially of a mixture of aliphatic hydrocarbons with a maximum n-hexane content of 5%. There is no clear evidence of long-term effects associated with the use of this type of low nhexane solvent under normal controlled conditions.

Ingestion:
Ingestion may cause severe irritation of the mouth, the esophagus, and the gastrointestinal tract.

Skin Contact:
Solvents have a deflating action on the skin. The combined effect of solvents and resin present in the adhesive may irritate the skin and a few susceptible individuals could develop an allergy to the resin.

Eye Contact:
Irritating to eyes. May cause chemical eye burns.

12. Ecological Information

Ecotoxicity
The petroleum hydrocarbon distillate is classified by the solvent producers as Dangerous for the Environment *with Risk Phrase R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. *Classification tests carried out by the solvent producers.

a. Toxicity: No data available.

b. Persistence and Degradability: No data available.
c. Bioaccumulative Potential: No data available.

d. Mobility in Soil: Adsorbs to soil and has low mobility. Floats on water.

e. Other Adverse Effects: No data available.

13. Disposal Information

Waste Treatment Methods
Disposal of waste product and containers are set by local authorities. Waste must only be transported and disposed of by authorized or registered contractors. This applies also to used or “empty” containers which may contain hazardous residues and vapours.

14. Transportation Information

a. UN Number

ADR/RID	1133
IMDG	1133
IATA - DGR	1133

b. UN Proper Shipping Name

IMDG	ADHESIVE
IATA – DGR	ADHESIVE

c. Transport Hazard Class

IMDG	Class 3
IATA – DGR	Class 3

Transport Labels

d. Packing Group

IMDG	III
IATA – DGR	III

e. Environmental Hazards

Marine Pollutant	No

f. Transport in Bulk k according to Annex II of MARPOL 73/78 and the IBC Code

IMDG	No data available
IATA – DGR	No data available

g. Special Precaution for User

No data available.

15. Regulatory Information

References to Legislation

i. Occupational Safety and Health (Classification, Packing and Labeling of Hazardous Chemical) Regulations 2013

ii. Occupational Safety and Health (Use and Standard of Exposure of Chemical Hazardous to Health) Regulations 2000

16. Other Information

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Date : 01/10/2023

Abbreviations:

ACGIH	American Conference of Government Industrial Hygienists
OSHA	Occupational Safe and Health Act
TLV	Threshold Limit Value
PEL	Permission Exposure Limit
TWA	Time – weighted average
Ppm	part per million
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
IMDG	International Maritime Dangerous Goods
IATA	International Air Transport Association
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
CAS	Chemical Abstracts Service (Division of the American Chemical Society)

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