

1. PRODUCT AND COMPANY IDENTIFICATION

1.1. Product Name: XC-857

1.2. Recommended uses: Adhesive

1.3. Company:

Gymcol Adhesives (Pinghu) Co Ltd

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2. COMPOSITION (Information on ingredients)

2.1 Mixtures.

Substances posing a danger to health or the environment in accordance with the Hazardous Substances Directive 67/548/EEC or Regulation (EC) No. 1272/2008, assigned a Community exposure limit in the workplace, and classified as PBT/vPvB or included in the Candidate List:

| Identifiers | Name | Concentrate | (*)Classification Regulation (EC) No 1272/2008 | (*)Classification Directive 67/548/CEE |
|--|--------------------------------|-------------|---|--|
| Index No: 606-001-00-8 CAS No: 67-64-1 EC No: 200-662-2 Registration No: 01-2119471330-49-XXXX | acetone,propan-2-one,propanone | 20 - 100 % | Eye Irrit. 2, H319 - Flam. Liq. 2, H225 - STOT SE 3, H336 | F Xi R11 R36 R66 R67 |
| Index No: 607-022-00-5 CAS No: 141-78-6 EC No: 205-500-4 Registration No: 01-2119475103-46-XXXX | ethyl acetate | 15 - 25 % | Eye Irrit. 2, H319 - Flam. Liq. 2, H225 - STOT SE 3, H336 | F Xi R11 R36 R66 R67 |

(*) The complete text of the R and H phrases is given in section 16 of this Safety Data Sheet.

[1] Substance with a Community workplace exposure limit (see section 8.1).

3. HAZARDS IDENTIFICATION

3.1 Classification of the mixture.

In accordance with Directive 1999/45/EC: F Xi

Highly flammable.

Irritating to eyes.

Repeated exposure may cause skin dryness or cracking.

Vapours may cause drowsiness and dizziness.

In accordance with Regulation (EU) No 1272/2008:

Eye Irrit. 2 : Causes serious eye irritation.

Flam. Liq. 2 : Highly flammable liquid and vapour.

STOT SE 3 : May cause drowsiness or dizziness.

3.2 Label elements.

Labelling in accordance with Regulation (EU) No 1272/2008:

Pictograms:



Signal Word:

Danger

H statements:

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

P statements:

P102 Keep out of reach of children.
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P243 Take precautionary measures against static discharge.
P271 Use only outdoors or in a well-ventilated area.
P501 Dispose of contents/container through an authorized manager.
P370+P378 In case of fire: Use ... for extinction.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

EUH statements:

EUH066 Repeated exposure may cause skin dryness or cracking.

Contains:

acetone,propan-2-one,propanone
ethyl acetate

3.3 Other hazards.

In normal use conditions and in its original form, the product itself does not involve any other risk for health and the environment.

4. FIRST AID MEASURES

4.1 Description of first aid measures.

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

Inhalation.

Take the victim into open air; keep them warm and calm. If breathing is irregular or stops, perform artificial respiration. Do not administer anything orally. If unconscious, place them in a suitable position and seek medical assistance.

Eye contact.

If wearing contact lenses, remove them. Wash eyes with plenty of clean and cool water for at least 10 minutes while pulling eyelids up, and seek medical assistance.

Skin contact.

Remove contaminated clothing. Wash skin vigorously with water and soap or a suitable skin cleaner. **NEVER** use solvents or thinners.

Ingestion.

If accidentally ingested, seek immediate medical attention. Keep calm. **NEVER** induce vomiting.

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

Irritant Product, repeated or prolonged contact with skin or mucous membranes can cause redness, blisters or dermatitis, inhalation of spray mist or particles in suspension may cause irritation of the respiratory tract, some symptoms may not be immediate. Can cause allergic reactions.

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

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

5. FIRE FIGHTING MEASURES

The product is Highly inflammable, it can cause or considerably worsen a fire, the necessary prevention measures should be taken and risks avoided. In case of fire, the following measures are recommended:

5.1 Extinguishing media.

Recommended extinguishing methods.

Extinguisher powder or CO₂. In case of more serious fires, also alcohol-resistant foam and water spray. Do not use a direct stream of water to extinguish.

5.2 Special hazards arising from the mixture.

Special risks.

Fire can cause thick, black smoke. As a result of thermal decomposition, dangerous products can form: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products can be harmful to your health.

5.3 Advice for firefighters.

Use water to cool tanks, cisterns, or containers close to the heat source or fire. Take wind direction into account. Prevent the products used to fight the fire from going into drains, sewers, or waterways.

Fire protection equipment.

According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks, and gloves.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures.

Eliminate possible ignition points and ventilate the area. Avoid breathing fumes. For exposure control and individual protection measures, see section 8.

6.2 Environmental precautions.

Prevent the contamination of drains, surface or subterranean waters, and the ground.

6.3 Methods and material for containment and cleaning up.

Pick up the spill with non-combustible absorbent materials (soil, sand, vermiculite, diatomite, etc.). Pour the product and the absorbent in an appropriate container. The contaminated area should be immediately cleaned with an appropriate de-contaminator. Pour the decontaminator on the remains in an opened container and let it act various days until no further reaction is produced.

6.4 Reference to other sections.

For exposure control and individual protection measures, see section 8.

For later elimination of waste, follow the recommendations under section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling.

The fumes are heavier than air and can spread across the ground. They can form explosive mixtures with air. Prevent the creation of flammable or explosive fume concentrations in the air; prevent fume concentrations above work exposure limits. The product must only be used in areas where all unprotected flames and other ignition points have been eliminated. Electrical equipment has to be protected according to applicable standards.

The product can be electrostatically charged: always use earth grounds when transferring the product. Operators must use anti-static footwear and clothing, and floors must be conductors.

Keep the container tightly closed and isolated from heat sources, sparks, and fire. Do not use tools that can cause sparks. For personal protection, see section 8. Never use pressure to empty the containers. They are not pressure-resistant containers.

In the application area, smoking, eating, and drinking must be prohibited.

Follow legislation on occupational health and safety.

Keep the product in containers made of a material identical to the original.

7.2 Conditions for safe storage, including any incompatibilities.

Store according to local legislation. Observe indications on the label. Store the containers between 5 and 35° C, in a dry and well-ventilated place, far from sources of heat and direct solar light. Keep far away from ignition points. Keep away from oxidising agents and from highly acidic or alkaline materials. Do not smoke. Prevent the entry of non-authorized persons. Once the containers are open, they must be carefully closed and placed vertically to prevent spills.

7.3 Specific end use(s).

Adhesive

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters.

The product does NOT contain substances with Professional Exposure Environmental Limit Values.

8.2 Exposure controls.

Measures of a technical nature:

Provide adequate ventilation, which can be achieved by using good local exhaust-ventilation and a good general exhaust system.

Breathing protection:

PPE: Filter mask for protection against gases and particles.

Characteristics: «CE» marking, category III. The mask must have a wide field of vision and an anatomically designed form in order to be sealed and watertight.

CEN standards: EN 136, EN 140, EN 405



Maintenance: Should not be stored in places exposed to high temperatures and damp environments before use. Special attention should be paid to the state of the inhalation and exhalation valves in the face adaptor.

Observations: Read carefully the manufacturer's instructions regarding the equipment's use and maintenance. Attach the necessary filters to the equipment according to the specific nature of the risk (Particles and aerosols: P1-P2-P3, Gases and vapours: A-B-E-K-AX), changing them as advised by the manufacturer.

Hand protection:

PPE: Protective gloves against chemicals.

Characteristics: «CE» marking, category III.

CEN standards: EN 374-1, EN 374-2, EN 374-3, EN 420



Maintenance: Keep in a dry place, away from any sources of heat, and avoid exposure to sunlight as much as possible. Do not make any changes to the gloves that may alter their resistance, or apply paints, solvents or adhesives.

Observations: Gloves should be of the appropriate size and fit the user's hand well, not being too loose or too tight. Always use with clean, dry hands.

Protective creams can help to protect exposed areas of the skin. These creams must **NEVER** be applied once exposure has occurred.

Eye protection:

PPE: Face shield.

Characteristics: «CE» marking, category II. Face and eye protector against splashing liquid.

CEN standards: EN 165, EN 166, EN 167, EN 168



Maintenance: Visibility through lenses should be ideal. Therefore, these parts should be cleaned daily. Protectors should be disinfected periodically following the manufacturer's instructions. Make sure that mobile parts move smoothly.

Observations: Face shields should offer a field of vision with a dimension in the central line of, at least, 150 mm vertically once attached to the frame.

Skin protection:

PPE: Anti-static protective clothing.

Characteristics: «CE» marking, category II. Protective clothing should not be too tight or loose in order not to obstruct the user's movements.

CEN standards: EN 340, EN 1149-1, EN 1149-2, EN 1149-3, EN 1149-5



Maintenance: In order to guarantee uniform protection, follow the washing and maintenance instructions provided by the manufacturer.

Observations: The protective clothing should offer a level of comfort in line with the level of protection provided in terms of the hazard against which it protects, bearing in mind environmental conditions, the user's level of activity and the expected time of use.

PPE: Anti-static safety footwear.

Characteristics: «CE» marking, category II.

CEN standards: EN ISO 13287, EN ISO 20344, EN ISO 20346

Maintenance: The footwear should be checked regularly

Observations: The level of comfort during use and acceptability are factors that are assessed very differently depending on the user. Therefore, it is advisable to try on different footwear models and, if possible, different widths.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties.

Appearance: Transparent liquid with characteristic odour

Odour: N.A./N.A.

Odour threshold: N.A./N.A.

pH: N.A./N.A.

Melting point: N.A./N.A.

Boiling Point: 56 °C

Flash point: -19 °C

Evaporation velocity: N.A./N.A.

Inflammability (solid, gas): N.A./N.A.

Lower Explosive Limit: 2,1

Upper Explosive Limit: 13

Vapour pressure: 247hPa

Vapour density: N.A./N.A.

Relative density: 0,86 g/ml a 23°C g/cm³

Solubility: N.A./N.A.

Liposolubility: N.A./N.A.

Hydrosolubility: N.A./N.A.

Partition coefficient (n-octanol/water): N.A./N.A.

Auto-ignition temperature: N.A./N.A.

Decomposition temperature: N.A./N.A.

Viscosity: 500 mPa.s a 23°C

Explosive properties: N.A./N.A.

Oxidizing properties: N.A./N.A.

N.A./N.A. = Not Available/Not Applicable due to the nature of the product

9.2. Other information.

VOC content (p/p): 81 %

VOC content: **712,8 g/l**

10. STABILITY AND REACTIVITY

10.1 Reactivity.

The product does not present hazards by their reactivity.

10.2 Chemical stability.

Stable under the recommended handling and storage conditions (see section 7).

10.3 Possibility of hazardous reactions.

The product does not present possibility of hazardous reactions.

10.4 Conditions to avoid.

Avoid temperatures near or above the flash point. Do not heat closed containers.

Avoid direct sunlight and heat, as these may cause a risk of fire.

10.5 Incompatible materials.

Keep away from oxidising agents and from highly alkaline or acidic materials in order to prevent exothermic reactions.

10.6 Hazardous decomposition products.

In case of fire, dangerous decomposition products can be generated, such as carbon monoxide and dioxide and nitrogen fumes and oxides.

11. TOXICOLOGICAL INFORMATION

IRRITANT PREPARATION. Splatters in the eyes can cause irritation.

11.1 Information on toxicological effects.

Repeated or prolonged contact with the product can cause the elimination of oil from the skin, giving rise to non-allergic contact dermatitis and absorption of the product through the skin.

Splatters in the eyes can cause irritation and reversible damage.

Toxicological information about the substances present in the composition.

| Name | Acute toxicity | | | |
|---|----------------|-------|--------|------------------|
| | Type | Test | Kind | Value |
| acetone,propan-2-one,propanone CAS No: 67-64-1 EC No: 200-662-2 | Oral | LD50 | Rata | 5800 mg/kg bw |
| | Dermal | DL50 | Conejo | 20000 mg/l |
| | Inhalation | CL 50 | Rata | 76 mg/l (4h) |
| ethyl acetate CAS No: 141-78-6 EC No: 205-500-4 | Oral | LD50 | Rata | 5620 mg/kg |
| | Dermal | LD50 | Conejo | > 18000 mg/kg bw |
| | Inhalation | | | |

12. ECOLOGICAL INFORMATION

12.1 Toxicity.

| Name | Ecotoxicity | | | |
|---|-----------------------|------|-----------|-------------------|
| | Type | Test | Kind | Value |
| acetone,propan-2-one,propanone N. CAS: 67-64-1 EC No: 200-662-2 | Fish | LC50 | Pez | 8300 mg/l (96 h) |
| | Aquatic invertebrates | EC50 | Crustáceo | 18500 mg/l (48 h) |
| | Aquatic plants | EC50 | Alga | 7200 mg/l (96 h) |
| ethyl acetate N. CAS: 141-78-6 EC No: 205-500-4 | Fish | LC50 | Pez | 328 mg/l (96 h) |
| | Aquatic invertebrates | LC50 | Crustáceo | 679 mg/l (48 H) |
| | Aquatic plants | EC50 | Alga | 2500 mg/l (96 h) |

12.2 Persistence and degradability.

No information is available about persistence and degradability of the product.

12.3 Bioaccumulative potencial.

Information about the bioaccumulation of the substances present.

| Name | Bioaccumulation | | | |
|---|-----------------|-----|-------|----------|
| | Log Pow | BCF | NOECs | Level |
| ethyl acetate N. CAS: 141-78-6 EC No: 205-500-4 | 0,73 | | | Very low |

12.4 Mobility in soil.

No information is available about the mobility in soil.
The product must not be allowed to go into sewers or waterways.
Prevent penetration into the ground.

12.5 Results of PBT and vPvB assessment.

No information is available about the results of PBT and vPvB assessment of the product.

12.6 Other adverse effects.

No information is available about other adverse effects for the environment.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods.

Do not dump into sewers or waterways. Waste and empty containers must be handled and eliminated according to current, local/national legislation. Follow the provisions of Directive 2008/98/EC regarding waste management.

14. TRANSPORT INFORMATION

Transport following ADR rules for road transport, RID rules for railway, ADN for inner waterways, IMDG for sea, and ICAO/IATA for air transport.

Land: Transport by road: ADR, Transport by rail: RID.

Transport documentation: Consignment note and written instructions

Sea: Transport by ship: IMDG.

Transport documentation: Bill of lading

Air: Transport by plane: ICAO/IATA.

Transport document: Airway bill.

14.1 UN number.

UN No: UN1133

14.2 UN proper shipping name.

Description: UN 1133 ADHESIVES, 3, PG III, (D/E)

14.3 Transport hazard class(es).

Class(es): 3

14.4 Packing group.

Packing group: III

14.5 Environmental hazards.

Marine pollutant: No

14.6 Special precautions for user.

Labels: 3



Hazard number: 30
ADR LQ: 5 L

Transport by ship, FEm – Emergency sheets (F – Fire, S - Spills): F-E,S-D
Proceed in accordance with point 6.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code.

The product is not transported in bulk.

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the mixture.

The product is not affected by the Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer.

See annex I of the Directive 96/82/EC of 9 December 1996 on the control of major-accident hazards involving dangerous substances and the Regulation (EC) No 689/2008 of the European Parliament and of the Council of 17 June 2008 concerning the export and import of dangerous chemicals and its subsequent updates.

15.2 Chemical safety assessment.

There has been no evaluation a chemical safety assessment of the product.

16. OTHER INFORMATION

Complete text of the R phrases that appear in section 3:

R11 Highly flammable.
R36 Irritating to eyes.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.

Complete text of the H phrases that appear in section 3:

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

It is advisable to carry out basic training with regard to health and safety at work in order to handle this product correctly.

Labelling in accordance with Directive 1999/45/EC:

Symbols:



Highly flammable



Irritant

R Phrases:

R11 Highly flammable.
R36 Irritating to eyes.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.

S Phrases:

S2 Keep out of the reach of children.
S9 Keep container in a well-ventilated place.
S16 Keep away from sources of ignition - No smoking.
S24 Avoid contact with skin.
S25 Avoid contact with eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S43 In case of fire, use ... (indicate in the space the precise type of fire-fighting equipment. If water increases risk, add «Never use water».)
S46 If swallowed, seek medical advice immediately and show this container or label.



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S51 Use only in well-ventilated areas.
S64 If swallowed, rinse mouth with water (only if the person is conscious).
S29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

Information on the TSCA Inventory (Toxic Substances Control Act) USA:

| CAS No | Name | State |
|----------|--------------------------------|-------|
| 67-64-1 | acetone,propan-2-one,propanone | |
| 141-78-6 | ethyl acetate | |

The information given in this Safety Data Sheet has been drafted in accordance with COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

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