

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product name: ADHERTO
Product code: PR2
Print Date: 16/Aug/2011
Revision Date: 16/Aug/2011
Recommended use: A coating for mirror backing

210 CROSBY
PICAYUNE, MS 39466

Manufacturer's Phone: 1-601-798-4731

2. HAZARDS IDENTIFICATION

REGULATION (EC) No 1272/2008

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Reproductive toxicity	Category 2
Specific target organ toxicity - single exposure	Category 3
Flammable liquids. Category 2	

Label Elements



contains: TOLUENE

Signal word: Danger

Hazard statements

- H315 - Causes skin irritation
- H319 - Causes serious eye irritation
- H335 - May cause respiratory irritation
- H336 - May cause drowsiness and dizziness.
- H361 - Suspected of damaging fertility or the unborn child
- H225 - Highly flammable liquid and vapour

Precautionary obligatory statements

- P281 - Use personal protective equipment as required
- 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
- P280 - Wear protective gloves/protective clothing/eye protection/face protection
- P403 + P235 - Store in a well-ventilated place. Keep cool

Precautionary additional statements

- P302+ P352 - IF ON SKIN: Wash with plenty of soap and water
- P321 - Specific treatment (see supplemental first aid instructions on this label)
- P332 + P313 - If skin irritation occurs: Get medical advice/attention.
- P362 - Take off contaminated clothing and wash before reuse
- P264 - Wash face, hands and any exposed skin thoroughly after handling
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P337 + P313 - If eye irritation persists: Get medical advice/attention.
- P201 - Obtain special instructions before use
- P202 - Do not handle until all safety precautions have been read and understood
- P281 - Use personal protective equipment as required
- P308 + P313 - IF exposed or concerned: Get medical advice/attention.
- P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
- P271 - Use only outdoors or in a well-ventilated area
- P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
- P312 - Call a POISON CENTRE/doctor/physician if you feel unwell
- P403 + P233 - Store in a well-ventilated place. Keep container tightly closed
- P405 - Store locked up
- P501 - Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient Name CAS-No.	Approx. Weight %	GHS / CLP Substance Classification
ACETONE 67-64-1	25 - 50	Flam. Liq. 2 (H225) (EUH066) STOT SE 3 (H336) Eye Irrit. 2 (H319)
4-CHLORO-a, a, a- TRIFLUOROTOLUENE 98-56-6	25 - 50	Flam. Liq. 3 (H226) Eye Irrit. 2 (H319) STOT SE 3 (H335) Skin Irrit. 2 (H315)
TOLUENE 108-88-3	3 - 5	Skin Irrit. 2 (H315) Flam. Liq. 2 (H225) Repr. 2 (H361d) STOT RE 2 (H373) STOT SE 3 (H336) Asp. Tox. 1 (H304)

XYLENE 1330-20-7	1 - 3	Acute Tox. 4 (H312) Skin Irrit. 2 (H315) Flam. Liq. 3 (H226) Acute Tox. 4 (H332)
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For the full text of the R-phrases mentioned in this Section, see Section 16

4. FIRST AID MEASURES

General

If symptoms persist, call a physician. Never give anything by mouth to an unconscious person.

Inhalation:

Move to fresh air. If victim is unconscious but breathing: Victim to lie down in the recovery position, cover and keep him warm. If not breathing, give artificial respiration. Obtain medical attention.

Skin:

Take off all contaminated clothing immediately. Wash off immediately with soap and plenty of water. Do NOT use solvents or thinners.

Eyes:

Remove contact lenses. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Keep eye wide open while rinsing.

Ingestion:

Keep at rest. If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting.

5. FIRE-FIGHTING MEASURES

The following actions are recommended

Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire will produce dense black smoke containing hazardous combustion products (see heading 10). Wear self contained breathing apparatus for fire fighting if necessary. Cool containers / tanks with water spray.

Suitable extinguishing media

Suitable extinguishing media
 Alcohol-resistant foam
 Carbon dioxide (CO2)
 Dry powder
 Extinguishing media which must not be used for safety reasons
 High volume water jet

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Exclude non essential personnel. Remove all sources of ignition. Ensure adequate ventilation. Do not breathe vapours/dust.

Environmental precautions:

Local authorities should be advised if significant spillages cannot be contained.

Methods for cleaning up:

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Clean with detergents. Avoid solvents.

7. HANDLING AND STORAGE

Handling:

Operators should wear anti-static footwear and clothing. Use only non-sparking tools. Good housekeeping standards and regular safe removal of waste materials will minimise the risks of spontaneous combustion and other fire hazards. Vapours are heavier than air and may spread along floors. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. Provide adequate ventilation. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Preparation may charge electrostatically: always use earthing leads when transferring from one container to another. Keep container tightly closed. Keep away from open flames, hot surfaces and sources of ignition. Avoid contact with skin and eyes. Do not breathe vapours or spray mist. When using, do not eat, drink or smoke. Do not use pressure to empty drums. Store in original container.

7. HANDLING AND STORAGE

Storage:

Containers which are opened must be carefully resealed and kept upright to prevent leakage. Take notice of the directions of use on the label. Keep in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Keep away from direct sunlight. Store in a place accessible by authorized persons only. Do not smoke.

Storage temperature: 10 - 30 C

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits:

China

Ingredient Name CAS-No.	Time Weighted Average (TWA)	Short Term Limit (STEL)	Ceiling Limit Value	Skin designation
ACETONE 67-64-1	300 mg/m ³ TWA	450 mg/m ³ STEL		
TOLUENE 108-88-3	50 mg/m ³ TWA	100 mg/m ³ STEL		Can be absorbed through the skin.
XYLENE 1330-20-7	50 mg/m ³ TWA	100 mg/m ³ STEL		

ACGIH Threshold Limit Value (TLV's)

Ingredient Name CAS-No.	ACGIH time weighted averages	ACGIH short term exposure limits	ACGIH Ceiling limits	ACGIH skin designations
ACETONE 67-64-1	500 ppm TWA	750 ppm STEL		
4-CHLORO-a,a,a- TRIFLUOROTOLUENE 98-56-6	2.5 mg/m ³ TWA F			
TOLUENE 108-88-3	20 ppm TWA			Can be absorbed through the skin.
XYLENE 1330-20-7	100 ppm TWA	150 ppm STEL		

Engineering measures:

During curing, decomposition products may be formed, which should be extracted safely from the work area. Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

Basic Personal Protection

Respiration

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hand protection:

Wear suitable gloves and eye/face protection. Use protective skin cream before handling the product.

Skin:

Wear as appropriate: Flame retardant antistatic protective clothing Wear shoes with conductive soles.

Eyes:

Wear as appropriate: Safety glasses with side-shields Goggles

Hygiene measures:

Do not use solvents or thinners to clean skin. When using, do not eat, drink or smoke. Wash hands before breaks and at the end of workday. It is good practice in industrial hygiene to avoid contact with solvents by using appropriate protective measures whenever possible.

The OES for nuisance dust is 10 mg/m³ (total dust), 4 mg/m³ (respirable dust). Check local regulations in case different limits apply.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: liquid

Specific Gravity .99

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling point/range	56°C
Flash point:	-20°C c.c.
Sustains combustion:	yes

10. STABILITY AND REACTIVITY

Stability:

Stable under normal conditions.

Conditions to avoid:

Stable under recommended storage conditions.

Materials to avoid:

Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Hazardous decomposition products:

Hazardous decomposition products may be produced when the recommended processing temperatures or times are exceeded. Carbon monoxide Carbon dioxide (CO₂) Smoke nitrogen oxides (NO_x)

11. TOXICOLOGICAL INFORMATION

Ingredient Name CAS-No.	LD50 Oral	LD50 Dermal	LC50 Inhalation
ACETONE 67-64-1	5800 mg/kg (Rat)		
4-CHLORO-a,a,a- TRIFLUOROTOLUENE 98-56-6	13 g/kg (Rat)	2 mg/kg (Rabbit)	33 mg/L (Rat) 4 h
TOLUENE 108-88-3	636 mg/kg (Rat)	12124 mg/kg (Rat) 8390 mg/kg (Rabbit)	12.5 mg/L (Rat) 4 h 26700 ppm (Rat) 1 h
XYLENE 1330-20-7	4300 mg/kg (Rat)	1700 mg/kg (Rabbit)	47635 mg/L (Rat) 4 h 5000 ppm (Rat) 4 h

General

No data is available on the product itself.

Skin

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons.

Inhalation

Exposure to vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effect, such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Ingestion

not determined

Eyes

The liquid splashed in the eyes may cause irritation and reversible damage.

12. ECOLOGICAL INFORMATION

Ingredient Name CAS-No.	Freshwater Algae 72 hour - Acute Toxicity Data	Acute Fish toxicity:	Freshwater Daphnia 48 hour - Acute Toxicity Data	Freshwater Water Flea 48 hour - Acute Toxicity Data
ACETONE 67-64-1		= 8300 mg/L Lepomis macrochirus 4.74-6.33 ml/L Oncorhynchus mykiss 6210-8120 mg/L Pimephales promelas	10294 - 17704 mg/L Daphnia magna 12600 - 12700 mg/L Daphnia magna	
4-CHLORO-a,a,a- TRIFLUOROTOLUENE 98-56-6			= 3.68 mg/L Daphnia magna	

12. ECOLOGICAL INFORMATION

TOLUENE 108-88-3	= 12.5 mg/L Pseudokirchneriella subcapitata	= 12.6 mg/L Pimephales promelas = 28.2 mg/L Poecilia reticulata = 5.8 mg/L Oncorhynchus mykiss = 54 mg/L Oryzias latipes 11.0-15.0 mg/L Lepomis macrochirus 14.1-17.16 mg/L Oncorhynchus mykiss 15.22-19.05 mg/L Pimephales promelas 5.89-7.81 mg/L Oncorhynchus mykiss 50.87-70.34 mg/L Poecilia reticulata	= 11.5 mg/L Daphnia magna 5.46 - 9.83 mg/L Daphnia magna	
XYLENE 1330-20-7		= 13.4 mg/L Pimephales promelas = 19 mg/L Lepomis macrochirus = 780 mg/L Cyprinus carpio > 780 mg/L Cyprinus carpio 13.1-16.5 mg/L Lepomis macrochirus 13.5-17.3 mg/L Oncorhynchus mykiss 2.661-4.093 mg/L Oncorhynchus mykiss 23.53-29.97 mg/L Pimephales promelas 30.26-40.75 mg/L Poecilia reticulata 7.711-9.591 mg/L Lepomis macrochirus		= 3.82 mg/L water flea

Product Information

No data is available on the product itself.

Local pollution requirements may apply to the use of this product. Do not let product enter drains. Do not contaminate surface water.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods:

Do not let product enter drains. Do not contaminate ponds, waterways or ditches with chemical or used container. Where possible recycling is preferred to disposal or incineration. Dispose of as special waste in compliance with local and national regulations.

14. TRANSPORT INFORMATION

ADR

Proper shipping name: PAINT
UN/ID No: UN1263
Hazard class: 3
Packing group: II

IMDG-Code

Proper shipping name: PAINT
UN/ID No: UN1263
Hazard class: 3
Packing group: II
Marine pollutant: no

IATA-DGR

Proper shipping name: Paint
UN/ID No: UN1263
Hazard class: 3

14. TRANSPORT INFORMATION

Packing group: II

15. REGULATORY INFORMATION

No information available

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

H315 - Causes skin irritation

H225 - Highly flammable liquid and vapour

H361d - Suspected of damaging the unborn child

H373 - May cause damage to organs (a,b,c) through prolonged or repeated exposure if inhaled

H336 - May cause drowsiness or dizziness

H304 - May be fatal if swallowed and enters airways

H312 - Harmful in contact with skin

H226 - Flammable liquid and vapour

H332 - Harmful if inhaled

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

EUH066 - Repeated exposure may cause skin dryness or cracking