SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

| Trade name: | AMTICO INTERNATIONAL TACKIFIER |

1.2. Relevant identified uses of the substance or mixture and uses advised against Water-borne synthetic polymer based adhesive

| Uses advised against: | = = |

1.3. Details of the supplier of the safety data sheet

| Supplier: | Amtico International |
| Kingfield Road, Coventry, CV6 5AA, UK |
| Tel: +44(0)24 7686 1400 |
| Fax: +44(0)24 7686 1552 |
| Competent person responsible for the safety data sheet: | John.Baggaley@Amtico.com |

1.4. Emergency telephone number

+44 (0) 24 7686 1400 Opening hours: Mon - Fri 08:30 - 16:45

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

Properties / Symbols: None.

Adverse physicochemical, human health and environmental effects: No other hazards

2.2. Label elements

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP). No hazard labelling required.

Special provisions according to Annex XVII of REACH and subsequent amendments: Restricted to professional users

Additional Labeling: EUH210 Safety data sheet available on request

Contains


2.3. Other hazards

| vPvB substances: | None |
| PBT substances: | None |

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

- 5 ppm reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)
- Index number: 613-167-00-5, CAS: 55965-84-9, Skin Corr. 1B H314, Skin Sens. 1,1A,1B H317, Aquatic Acute. 1 H400, Aquatic Chronic. 1 H410, Oral Acute Tox. 3 H301, Dermal Acute Tox. 3 H311, Inhale Acute Tox. 3 H331

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

| In case of skin contact: | Wash with plenty of water and soap. If any irritation or discomfort occurs, seek medical advice and present this safety data sheet. |
| In case of eyes contact: | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wash immediately with water for at least 10 minutes. |
| In case of Ingestion: | Immediately seek medical advice and present this safety-data sheet. A suspension of activated charcoal in water, or petroleum jelly may be administered. Wash the mouth thoroughly and drink plenty of water. |
| In case of Inhalation: | Remove casualty to fresh air and keep warm and at rest. Immediately seek medical advice and present this safety-data sheet. |

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

No specific hazards are encountered under normal product use.

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

Treatment: (see paragraph 4.1)
SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

| Suitable extinguishing media: | None in particular. |
| Extinguishing media which must not be used for safety reasons: | None in particular. |

5.2. Special hazards arising from the substance or mixture

The product does not present a fire hazard.
Do not inhale explosion and combustion gases.
The original ingredients or unidentified toxic and/or irritant compounds may be present in the combustion fumes.

5.3. Advice for firefighters

Use suitable breathing apparatus.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.
Remove persons to safety.
See protective measures under point 7 and 8.

6.2. Environmental precautions

Limit leakages with earth or sand.
Retain contaminated washing water and dispose it.
Suitable material for taking up: absorbing material, organic, sand.
Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand.
Wash with plenty of water.
Retain contaminated washing water and dispose it.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.
Do not eat or drink while working.
Fine dust may form explosive mixture with air. Keep away from open flames, heat and sparks.
Do not remove shrink film in hazardous locations (because of risk of static charging/discharge)
See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

| Incompatible materials: | None in particular. |
| Instructions as regards storage premises: | Adequately ventilated premises. Store above 5°C. |

7.3. Specific end use(s)

None in particular

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

No occupational exposure limit available

| DNEL Exposure Limit Values | N.A. |
| PNEC Exposure Limit Values | N.A. |

8.2. Exposure controls

| Eye protection: | Not normally needed when used according to good working practices. |
| Protection for skin: | No special precautions required, but good work practice should be followed and unnecessary contact with the adhesive avoided. |
| Protection for hands: | The use of LLPDE (0,06 mm), nitrile (0,4) or butyl (0,5 mm) gloves is suggested. Latex gloves are not recommended. |
| Respiratory protection: | Not needed for normal use. |

Personal Protective Equipment should comply with relevant CE standards (as EN 374 for gloves and EN 166 for goggles), correctly maintained and stored. Consult the supplier to check the suitability of equipment against specific chemicals and for user information.

| Thermal Hazards: | None |
| Environmental exposure controls | None |

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| Appearance: | paste |
| Colour: | beige |
| Odour: | typical |
| Odour threshold: | N.A. |
| pH: | 7.5-8.5 |
| Melting point / freezing point: | N.A. |
| Initial boiling point and boiling range: | 100 °C |
| Solid/gas flammability: | N.A. |
| Upper/lower flammability or explosive limits: | N.A. |
| Vapour density: | N.A. |
| Flash point: | N.A. |
| Evaporation rate: | N.A. |
| Vapour pressure: | N.A. |
Relative density: 1.0-1.05 g/cm³ (23°C)
Vapour density (air=1): N.A.
Solubility in water: dispersible
Solubility in oil: soluble
Viscosity: 40000 mPa.s (23°C)
Auto-ignition temperature: N.A.
Explosion limits(by volume): N.A.
Partition coefficient (n-octanol/water): N.A.
Explosive properties: N.A.
Oxidizing properties: N.A.

SECTION 10: STABILITY AND REACTIVITY
10.1. Reactivity
Stable under normal conditions

10.2. Chemical stability
Stable under normal conditions

10.3. Possibility of hazardous reactions
None

10.4. Conditions to avoid
Stable under normal conditions.

10.5. Incompatible materials
None in particular.

10.6. Hazardous decomposition products
None.

SECTION 11: TOXICOLOGICAL INFORMATION
11.1. Information on toxicological effects
Route(s) of entry:
Ingestion: Yes
Inhalation: No
Contact: No

Toxicological information related to the product:
There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

Toxicological information of the mixture:
N.A.

Toxicological information of the main substances found in the mixture:
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) - CAS: 55965-84-9

- a) acute toxicity:
  Test: LD₅₀ - Route: Oral - Species: Rat 53 mg/kg
  Test: LC₅₀ - Route: Inhalation Dust - Species: Rat 330 mg/m³ - Duration: 4h
  Test: LC₅₀ - Route: Inhalation - Species: Rat 2.36 mg/l - Duration: 4h
  Test: LD₅₀ - Route: Skin - Species: Rabbit 660 mg/kg

- Corrosive/Irritating Properties:
The product can cause a temporary irritation by contact.

- Sensitizing Properties:
No effects are known.

- Cancerogenic Effects:
No effects are known.

- Mutagenic Effects:
No effects are known.

- Teratogenic Effects:
No effects are known.

If not differently specified, the information required in Regulation 453/2010/EC listed below must be considered as N.A.:

- a) acute toxicity;
- b) skin corrosion/irritation;
- c) serious eye damage/irritation;
- d) respiratory or skin sensitisation;
- e) germ cell mutagenicity;
- f) carcinogenicity;
- g) reproductive toxicity;
- h) STOT-single exposure;
- i) STOT-repeated exposure;
- j) aspiration hazard.
SECTION 12: ECOLOGICAL INFORMATION

12.1. Adopt good industrial practices, so that the product is not released into the environment.

Not available data on the mixture
Aquatic toxicity: the preparation is not to be considered toxic to the aquatic environment base on components.
LC50>100mg/l - aquatic species (calculated data following 1999/45/EC Directive).
Biodegradability: not readily biodegradable
Biodegradability: no data available on the preparation.
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) - CAS: 55965-84-9
a) Aquatic acute toxicity:
Endpoint: EC50 - Species: Daphnia = 0.16 mg/l - Duration h: 48
Endpoint: LC50 - Species: Fish = 0.19 mg/l - Duration h: 96

12.2. Persistence and degradability
N.A.

12.3. Bioaccumulative potential
N.A.

12.4. Mobility in soil
N.A.

12.5. List of substances dangerous for the environment and corresponding classification:
40 ppm 2-metil-2H-isotiazol-3-one (MIT)
CAS: 2682-20-4
H400 Very toxic to aquatic organisms.
40 ppm 1,2-benzisothiazol-3(2H)-one
CAS: 2634-33-5
H400 Very toxic to aquatic organisms.
EC50 (Daphnia): 3.7 mg/l (48 hr)
EC50 (Algae): 0.37 mg/l (72 hr)
5 ppm reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) - CAS: 55965-84-9
H410 Very toxic to aquatic life with long-lasting effects
EC50 (Daphnia): 0.16 mg/l (48 hr)
LC50 (Fish): 0.19 mg/l (96 hr)
vPvB Substances: None - PBT Substances: None

12.6. Other adverse effects
Not available data on the mixture

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods
Recover if possible. In so doing, comply with the local and national regulations currently in force.

| Disposal of hardened product (EC waste code): | 08 04 10 |
| Disposal of not hardened product (EC waste code): | 08 04 10 |

The suggested European waste code is just based on the composition of the product.
According to the specific process or application field a different waste code may be necessary.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number
UN Number: ==

14.2. UN proper shipping name
N.A.

14.3. Transport hazard class(es)
Rail/Road(RID/ADR): no dangerous good
ADR-Upper number: NA
Air (ICAO/IATA): no dangerous good
Sea (IMO/IMDG): no dangerous good

14.4. Packing group
N.A.

14.5. Environmental hazards
ADR Environmental Pollutant: Marine pollutant: No
N.A.

14.6. Special precautions for user
N.A.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code. No
SECTION 15: REGULATORY INFORMATION

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

- Dir. 67/548/EEC (Classification, packaging and labelling of dangerous substances)
- Dir. 99/45/EC (Classification, packaging and labelling of dangerous preparations)
- Dir. 98/24/EC (Risks related to chemical agents at work)
- Dir. 2000/39/EC (Occupational exposure limit values)
- Dir. 2006/8/EC
- Regulation (EC) n. 1907/2006 (REACH)
- Regulation (EC) n. 1272/2008 (CLP)
- Regulation (EC) n. 790/2009 (ATP 1 CLP)
- Regulation (EU) n. 453/2010 (Annex I)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications: None

REACH Regulation n° 1907/2006 (REACH) – Art. 59 (Substances in "Candidate List"): N.A.

CLP Regulation n° 1272/2008 (CLP) and s.m.i.

Directive n° 1999/45/CE (Dangerous Preparation) and s.m.i.

Directive 2000/39/CE and s.m.i. (Professional threshold limit)


ADR Agreement – IMDG Code – IATA Regulation

Wassergefährdungsklasse:

VOC (2004/42/EC) : N.A. g/l

15.2. Chemical safety assessment

No

SECTION 16: OTHER INFORMATION

Text of phrases referred to under heading 3:

- H314 Causes severe skin burns and eye damage
- H317 May cause an allergic skin reaction.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H301 Toxic if swallowed.
- H311 Toxic in contact with skin.
- H331 Toxic if inhaled.

This safety data sheet has been completely updated in compliance with Regulation 453/2010/EU. This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

- NIOSH - Registry of toxic effects of chemical substances
- ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities
- SAX’S - Dangerous properties of industrial materials
- Istituto Superiore di Sanità - Inventario Nazionale Sostanze Chimiche

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. This MSDS cancels and replaces any preceding release.