SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006

Product: **EVA**

SDS No.: 000701-002 (Version 2.0)

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

Generic Safety Data Sheet

Identification of the mixture: EVA
Grades : 24-03, 24-03 SA, 28-03, 28-05, 28-25, 28-40,28-150, 28-420, 28-800, 33-15, 33-25, 33-45,33-45 PV,33-400,34-50 PV
Use of the Substance/Mixture : Hotmelt adhesives and coatings, Co extrusion, Foam, Compounds

Company/Undertaking Identification:

Supplier

Australian Mouthguards
Po Box 5597
Falcon
WA 6210
08 95358664

2. HAZARDS IDENTIFICATION

Classification (Regulation (EC) No 1272/2008.
This mixture is not classified as dangerous according to Regulation (EC) No 1272/2008

Classification according to EU Directives 1999/45/EC
This mixture is not classified as dangerous according to Directive 199/45/EC.

Label elements (REGULATION (EC) No 1272/2008):
This mixture does not require a label.

Other hazards:

Potential health effects:
Acute exposure: Contact with the product, when handled at high temperatures, can cause serious burns.

Physical and chemical hazards:
Thermal decomposition giving toxic and corrosive products.
Decomposition products: See chapter 10

Other:
Results of PBT and vPvB assessment: This information is not required.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature of the mixture:
Ethylene and vinyl acetate copolymer
Presence of additives

Hazardous impurities :

Chemical Name	EC-No	CAS- No	Concentration	Classification Directive 67/548/EEC	Classification Regulation (EC) No 1272/2008
Vinyl acetate	203-545-4	108-05-4	<0,5 %	F; R11 Xn; R20 Xi; R37 Carc.Cat.3; R40	Flam. Liq. 2; H225 Acute Tox. 4 (Inhalation); H332 STOT SE 3; H335 Carc. 2; H351

4. FIRST AID MEASURES

Description of necessary first-aid measures. Most important symptoms/effects, acute and delayed:

Inhalation:
Inhalation of vapours due to thermal decomposition : Move to fresh air. Oxygen or artificial respiration if needed.
In case of persistent problems : Consult a physician.

Skin Contact
On contact with hot product : Cool skin rapidly with cold water after contact with molten polymer. Remove product with vegetable oil or paraffin. In case of adhesion, do not try and remove the product. Treat the affected areas as thermal burns. Consult a physician.

Eye contact
Dust : Wash well-open eyes immediately, abundantly and thoroughly with water. Remove particles remaining under the eyelids. If irritation persists, consult an ophthalmologist.
On contact with hot product : Cool eyes rapidly with cold water after contact with molten polymer. Consult an ophthalmologist.

Ingestion :
In case of problems : consult a doctor.

Protection of first-aiders :
In case of insufficient ventilation, wear suitable respiratory equipment.

5. FIREFIGHTING MEASURES

Extinguishing media :

Suitable extinguishing media : Water spray, foam, carbon dioxide (CO2)

Special hazards arising from the substance or mixture :

At high temperature :

Thermal decomposition giving toxic and corrosive products :

Acetic acid, Carbon oxides (by combustion)

Advice for fire-fighters :

Specific methods :

Ensure a system for the rapid emptying of containers. In case of fire nearby, remove the bags.

Special protective actions for fire-fighters :

In the event of fire, wear self contained breathing apparatus.

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures :

Avoid contact with skin and inhalation of dust. Wear a dust mask and safety glasses/goggles if necessary. In case of insufficient ventilation, wear suitable respiratory equipment.

Environmental precautions:

Do not release into the environment. Do not let the product enter drains.

Methods and materials for containment and cleaning up:

Recovery:

Recover the product. Shovel into suitable container for disposal. Sweep up to prevent slipping hazard.

Elimination:

Destroy the product by incineration (in accordance with local and national regulations).

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7. HANDLING AND STORAGE

Precautions for safe handling:

Technical measures/precautions:

Storage and handling precautions applicable to products: Solid (pellets).

Ensure ventilation of work areas and extraction of dust or vapours likely to be given off during conversion operations (product handled when hot). Provide showers, eyebaths. Provide water supplies near point of use.

Safe handling advice
At all stages of the operation, do not exceed the temperature at which decomposition into toxic and corrosive products will occur. Avoid creating dust. In case of dust formation, wear a dust mask. Avoid accumulation of static charges during transfers in metallic systems. Keep well away from naked flames.

Hygiene measures:
Avoid contact with the skin and eyes. Avoid breathing dust. Product handled when hot : Avoid exposure to vapour. When using do not eat, drink or smoke. Wash hands after handling. Remove contaminated clothing and protective equipment before entering eating areas.

Conditions for safe storage, including and incompatibilities:
Store away from moisture and heat to maintain the technical properties of the product. Remove all sources of ignition. Provide earthing and safe electrical equipment.

Incompatible products:
None known

Packaging material:
Recommended: Polyethylene

Specific use(s) (End use): None.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS:

Exposure Limit Values Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL): This information is not required.

Predicted No Effect Concentration (PNEC): This information is not required.

EXPOSURE CONTROLS:

General protective measures:	Ensure ventilation of work areas and extraction of dust or vapours likely to be given off during conversion operations (product handled when hot).
Personal Protective Equipment:	
Respiratory protection:	In case of insufficient ventilation , wear suitable respiratory equipment. In case of Hazardous flames wear self contained breathing apparatus.
Hand protection	Gloves (product handled in molten state).
Eye/face protection:	Safety glasses/goggles (product handled in molten state) - wear face-shield and protective clothing in case of problems during processing.
Skin and body protection:	Protective clothing (product handled in molten state)

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	
Physical state (20 ° C):	Solid.
Form:	Granules.
Colour:	Natural colour, white.
Odour:	Ester like.
Olfactory threshold:	No data available.
PH:	Not applicable.
Melting point/range:	60 - 90 °C.
Boiling point/range :	Not applicable (decomposes on heating).
Flash point:	Not applicable.
Evaporation rate:	Not relevant.
Flammability (solid, gas)	No data available.
Vapour pressure:	Not relevant.
Vapour density:	Not relevant.
Density:	940 -960 kg/m3.
Water solubility:	<1 mg/l at 20°C (estimation) insoluble (on the basis of its structure)
Partition coefficient:	
n-octanol/water:	No data available.
Auto ignition temperature:	No data available.
Decomposition temperature:	Approx. 260°C.
Viscosity, kinematic:	Not applicable.
Explosive properties:	
Explosivity :	Not relevant due to the chemical structure.
Oxidizing properties:	Not relevant due to the chemical structure.
Other data:	
Solubility in other solvents:	Soluble in : Carbon tetrachloride, at 25 °C

10. STABILITY AND REACTIVITY

Reactivity & Chemical stability:
The product is stable under normal handling and storage conditions.

Possibility of hazardous reactions:
None under normal conditions of use.

Conditions to avoid:
Heat, flames and sparks. Exposure to sunlight. Exposure to moisture. (to maintain the technical properties of the product.)

Incompatible materials to avoid:
Acids, Strong oxidizing agents

Thermal decomposition:
Decomposition temperature: approx. 260 °C
Hazardous decomposition products:
At high temperature:
Thermal decomposition giving toxic and corrosive products:
Acetic acid, Carbon oxides (by combustion)

11. TOXILOGICAL INFORMATION

Toxicological Information:

Acute toxicity:

Ingestion:	Polymer: According to its composition, can be considered as : Slightly harmful by ingestion.
Dermal:	Polymer: According to its composition, can be considered as: Slightly harmful in contact with skin

Local effects (Corrosion/Irritation/Serious eye damage):

Skin contact:	Polymer: Can be considered as :Slightly or not irritating to skin Contact with the product, when handled at high temperatures, can cause serious burns. At high temperature, products of thermal decomposition can be irritating to skin.
Eye Contact:	Polymer: Can be considered as: Slightly or not irritating to eyes Contact with the product, when handled at high temperatures, can cause serious burns. At high temperature, products of thermal decomposition can be irritating to eyes.

Respiratory or skin sensitization:

Inhalation:	No data available.
Skin contact:	No data available.

CMR effects:	Polymer: No particular problems for man.

Specific target organ toxicity:
Single exposure:

Inhalation:	At high temperature, products of the thermal decomposition can
be	irritating to respiratory system.
Repeated exposure:	**Polymer: No particular problems for man.**
Aspiration hazard:	Not relevant.

12. ECOLOGICAL INFORMATION

Acute toxicity
Aquatic invertebrates: No data available.
Microorganisms: No data available.
Persistence and degradability:
Biodegrading (in water): Inert polymer, Non biodegradable on the basis of its structure.

Bio-accumalitive potential: No data available.
Mobility in soil: No data available.

Results of PBT and vPvB assessment: This information is not required.

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13. DISPOSAL CONSIDERATIONS:

Waste treatment:

Disposal of product: Do not dispose of waste into sewer. Recycle if possible. Destroy the product by incineration (in accordance with local and national regulations).

Disposal of packaging: Do not release into the environment. Re-cycle if possible. Destroy packaging by incineration at an approved disposal site (in accordance with local and national regulations).

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14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

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15. REGULATORY INFORMATION

Safety data sheets: according to Regulation (EC) No. 1907/2006

INVENTORIES:
EINECS: Conforms to
TSCA: Conforms to
AICS: Conforms to
DSL: All components of this product are on the Canadian DSL list.

ENCS(JP): Conforms to
KECI(KR): Conforms to
PICCS(PH): Conforms to
IECSC(CN): Conforms to
NZIOC: Conforms to

Update:

Safety data sheet sections which have been updated:		Type
2	Classification and labelling	Additions

Thesaurus:

NOAEL: No Observed Adverse Effect Label
LOAEL: Lowest Observed Adverse Effect Level
bw: Body weight
food: Oral feed
dw: Dry weight
vPvB: very persistent and very bio accumulative
PBT: Persistent, Bio accumulative and Toxic

This information applies to the PRODUCT AS SUCH and conforming to the specifications of Acorn Polymers Ltd. In case of formulations or mixtures, it is necessary to ascertain that a new danger will not appear. The information contained is based on our knowledge of the product at the date of publishing and it is given quite sincerely. Users are advised of possible additional hazards when the product is used in applications for which it was not intended. This sheet shall only be used and reproduced for prevention and security purposes. The references to legislative, regulatory and codes of practise documents cannot be considered as exhaustive. It is the responsibility of the person receiving the product to refer to the totality of the official documents concerning the use, the possession and the handling of the product. It is also the responsibility of the handlers of the product to pass on to any subsequent persons who will come into contact with the product (usage, storage, cleaning of containers, other processes) the totality of the information contained within this safety data sheet and necessary for safety at work, the protection of health and the protection of the environment.

1. OTHER INFORMATION

Full text of R, H, EUH-phrases referred to under sections 2 and 3

R11	Highly flammable.
R20	Harmful by inhalation.
R37	Irritating to respiratory system.
H225	Highly flammable liquid and vapour.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.