(according to attachment II of regulation 2006/1907/EC)

Doc.-No.: 10_2017LB.docx - Rev.No. 10_08_2016



1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY:

PRODUCT DETAILS – TRADE ISOLPAK CLAD 7-layer

NAME: WEATHER PROTECTION FILM + PET 5-PLY + ADHESIVE

PRODUCT APPLICATION: FACINGS, ADHESIVE TAPES

SUPPLIER DETAILS: TTM GmbH / srl

I-39026 Prad am Stj. (BZ) Phone: ++39 0473 616170

Fax: ++39 0473 616582

EMERGENCY TELEPHONE ++39 0473 616170 (Mo -Fr. 8:00 - 17:00)

NUMBER:

2. HAZARDS IDENTIFICATION:

GENERAL INFORMATION: Low risk: Product can only form ignitable mixtures or burn if it is heated to

temperatures above the flash point.

WARMING: When warming the product, e.g. when welding, sufficient ventilation should be

provided. In certain cases, extractor-fans should be installed directly on the

machines.

OVERHEATING: Incorrect processing of polyester can lead to the formation of low molecular

decomposition products. It is therefore important to prevent overheating of the

molten material (see also section 10).

FIRE HAZARD: Toxic gases are produced during burning (see also section 10).

SPARKING: Risk of electrostatic charging. Product can be static charged, which can lead to an

ignitable electrical discharge. All production machines must be grounded

correctly.

3. COMPOSITION / INFORMATION ON INGREDIENTS:

CHEMICAL CHARACTERIZATION: Flexible laminate of following composition:

21% Weather protection film

3% Adhesive

15% Aluminium Foil Al

3% Adhesive

14% Polyester-Film PET

3% Adhesive

5% Aluminium Foil Al

3% Adhesive

14% Polyester-Film PET

3% Adhesive, Additive

5% Aluminium Foil Al

11% Adhesive, Polyacrilic

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Doc.-No.: 10_2017LB.docx - Rev.No. 10_08_2016



FORM: solid, flexible

COLOUR: metallic, transparent

ODOUR: odourless
HAZARDOUS INGREDIENTS: none

4. FIRST-AID MEASURES:

EYE CONTACT: This product is an inert solid. In case particles come into the eye, remove by

irrigating with eye wash solution or clean water, holding the eyelids apart. Obtain

medical attention.

SKIN CONTACT: With hot product: Cool the affected areas with plenty of cold water. Cover with a

clean cloth or sterile gauze and call immediate for medical help. Do not try to remove the product from the skin or remove soiled clothing as this may cause

the injured skin tissue to be torn of.

INGESTION: First aid is normally not necessary.

INHALATION: Inhalation of fumes: Remove patient from exposure, keep warm and at rest. Use

suitable respiratory protection measures. If breathing is irregular or if it has

stopped, proceed with artificial respiration. Obtain medical attention.

5. FIRE-FIGHTING MEASURES:

HAZARDOUS GASES: Combustion or thermal decomposition will involve toxic and corrosive vapours:

Carbon monoxide (CO) Nitrogen Oxides (NO_x),

Smoke

EXTINGUISHING MEDIA: Water

Foam

Dry powder Carbon dioxide

FIRE FIGHTING PROTECTIVE

In the presence of combustion or carbonisation gases, any fire fighting, rescue and

EQUIPMENT: clearing up activities should be undertaken only with heavy-duty respiratory and

eye protection equipment (see also sections 3,8 and 10).

6. ACCIDENTAL RELEASE MEASURES:

GENERAL INFORMATION: No special measures required.

Collect the product in suitable containers and either recycle or dispose of. Seek expert advice when disposing of collected material. Observe to the legal

requirements for waste disposal (see also section 3, 8, 10).

Caution when running over films on the floor. Danger of slipping!

7. HANDLING AND STORAGE:

HANDLING: Avoid contact with naked flames and hot surfaces as irritant and toxic

decomposition products can be formed.

STORAGE TEMPERATURE: Ambient temperature TRANSPORT TEMPERATURE: Ambient temperature

(according to attachment II of regulation 2006/1907/EC)

Doc.-No.: 10_2017LB.docx - Rev.No. 10_08_2016



LOADING AND UNLOADING

Ambient temperature

TEMPERATURE:

STORAGE AND TRANSPORT

Atmospheric

PRESSURE:

RISK OF ELECTROSTATIC

Take measures against electrostatic charging.

CHARGING:

NORMAL FORM OF On pallets or goods wagons

TRANSPORTATION:

SAFE STORAGE: Storage on pallets in dry, enclosed rooms with solid foundation.

Stack loose bales in containers, racks or secure using wedges.

Pallets with lying bales must not be stacked.

Upright bales can be stacked up to a maximum of 3 high. Stack products in

cardboard boxes up to a maximum height of 5,5 m.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

PERSONAL PROTECTION

If contact with hot material is possible, wear heat proof cloves, arm- and face

EQUIPMENT: shields.

If the ambient air concentrations exceed the above mentioned normal value in spite of the technical safety measures, further measures should be taken to extract

the fumes. In other cases (where not possible), wear respiratory protection

equipment.

HYGIENE MEASURES: With sufficient ventilation on the working area and correct handling and

processing no health risks are to be expected.

9. PHYSICAL AND CHEMICAL PROPERTIES:

GENERAL INFORMATION:

These are just recommended reference values. Please take the technical product

specification into consideration.

FORM: solid

COLOUR: metallic, white

ODOUR: odourless

CRYSTALLINE MELTING POINT: 260 / 660 / 248 / 660 / 248 / 660 / 120°C

WEATHER PROTECTION FILM/ALU/PET/ALU/PET/ALU/ADH

FLASH POINT not applicable
IGNITION TEMPERATURE: not applicable
LOWER EXPLOSION LIMIT: not applicable
VAPOUR PRESSURE: not applicable

DENSITY: 2,25 g/cm³ (at 23 °C)

SOLUBILITY IN WATER: insoluble

HYGROSCOPIC: no

PH-VALUE: not applicable VISCOSITY: not applicable

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Doc.-No.: 10_2017LB.docx - Rev.No. 10_08_2016



DENSITY OF STEAM: not applicable (101,3 kPa/air=1)

EVAPORATION RATE: (n-Butylacetat = 1)

HEAT OF EVAPORATION: not applicable COEFFICIENT OF THERMAL not applicable

EXPANSION OF LIQUID:

VAPOUR PRESSURE: not applicable

MOLECULAR WEIGHT: 3.000 – 50.000 (polymers)

10.STABILITY AND REACTIVITY:

CHEMICAL STABILITY: Stable between – 240 °C and + 100 °C

THERMAL DECOMPOSITION: Temperatures above 300°C lead to the decomposition of the polymers.

HAZARDOUS DECOMPOSITION Thermal decomposition products are toxic and corrosive:

PRODUCTS: Hydrocarbons carbon dioxide carbon

monoxide smoke

HAZARDOUS COMBUSTION Reduced oxygen supply can cause the development of carbon monoxide and

PRODUCTS: irritant smoke.

HAZARDOUS REACTIONS: Do not bring into contact with: Fluorine, strong oxidising agents.

11.TOXICOLOGICAL INFORMATION:

GENERAL INFORMATION According to present experience, the material is physiologically

compatible. According to present experience, the material is neither mutagenic,

carcinogenic nor teratogenic.

12.ECOLOGICAL INFORMATION:

GENERAL INFORMATION: Product is insoluble in water and not biodegradable

The material has no harmful effect on the environment

WATER HAZARD CLASS: 0 (self estimation)

Oxygen required lies under the detection limit of 50 mg/l.

13.DISPOSAL CONSIDERATIONS:

PRODUCT: In accordance with the necessary technical and local regulations may be dumped

with household waste without harmful effects to the environment.

RECYCLING: Recycling of the laminate is possible in suitable plants.

NAME OF WASTE: Composite wastes containing Polyester, Thermoplastics and Aluminium.

14.NOTES ON TRANSPORT:

GGVS / GGVE: non-hazardous material ADR / RID: non-hazardous

material

INLAND NAVIGATION: ADN / ADNR: non-hazardous material TRANSPORT BY SEA: IMDG / UN: non-hazardous material

AIR TRANSPORT: ICAO-TI / IATA-DGR: non-hazardous material Air mail transport permitted

DISPATCH BY POST: Permitted

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Doc.-No.: 10_2017LB.docx - Rev.No. 10_08_2016



15.REGULATORY INFORMATION:

LABELLING IN ACCORDANCE

Hazard warning labelling not compulsory

WITH GEFSTOFFV

NATIONAL RREGULATIONS

TA-Luft (Ger.) Class I

WATER HAZARD CLASS (WHC):

Not applicable

OTHER REGULATIONS

16. other Information:

This data sheet was prepared in accordance with the Guideline 2006/1907/EC.

The above information describes exclusively the safety requirements of the product and is based on our present state of knowledge. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.

It does not apply if the product is used together with other materials. The user must determine himself if all the statements and information for his specific purpose/use is suitable and complete.

The additives contained in the product such as lubricants, anti blocking agent, antioxidants or stabilisers can vary.

Further Properties of the product are to be found in the respective product leaflets