

SAFETY DATA SHEET in accordance with 93/112/EC Doc.-No.: SD2704 – Re.No. 0 Issued May 2004 Page 1 from 4

1. IDENTIFICATION OF THE SUBSTANCE / PREPAR		
PRODUCT DETAILS – TRADE NAME:	K-Flex Al Clad	
SUPPLIER DETAILS:		
	I- 20040 Roncello (Milan) Tel.: +39 039 6824 1 - Fax: +39	9 039 6824 560
EMERGENCY TELEPHONE NUMBER:	+39 039 6824 1	
2. COMPOSITION / INFORMATION ON INGREDIENTS	S:	
CHEMICAL CHARACTERIZATION:	Flexible laminate of following co PETP film, natural, UV, FR: Additive: Adhesive: - Aluminium foil: Adhesive: -Polymer Additives:	mposition: Polyester not specified Synthetic resin Al Synthetic resin Aromatic Bromine (6 – 7 %), no Diphenylether Diantimony Trioxide (3 – 3,5 %)
FORM: COLOUR: ODOUR: HAZARDOUS INGREDIENTS:	solid, flexible metallic, white Odourless Diantimony Trioxide; Carc3; Xn;	R40
3. HAZARDS IDENTIFICATION:		
GENERAL INFORMATION:	Low risk: Product can only form ignitable mixtures or burn if it is	
WARMING: OVERHEATING:	heated to temperatures above the flash point. When warming the product, e.g. when welding, sufficient ventilation should be provided. In certain cases, extractor-fans should be in- stalled directly on the machines. Incorrect processing of polyolefines and polyester can lead to the	
FIRE HAZARD: SPARKING:	formation of low molecular decomposition products. It is therefore important to prevent overheating of the molten material (see also section 10). Toxic gases are produced during burning (see also section 10). Risk of electrostatic charging. Product can be electrostatically charged, which can lead to an ignitable electrical discharge. All production machines must be grounded correctly.	
DANGER OF SLIPPING:	Films lying on the floor can caus	
4. FIRST-AID MEASURES:		
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.	
EYE CONTACT:	This product is an inert solid. In	n case particles come into the eye, ash solution or clean water, holding
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 re- move soiled clothing as this may cause the injured skin tissue to be torn of.	
INGESTION:	First aid is normally not necessary.	



## SAFETY DATA SHEET in accordance with 93/112/EC Doc.-No.: SD2704 – Re.No. 0

Issued May 2004 Page 2 from 4

5. FIRE-FIGHTING MEASURES:			
HAZARDOUS GASES:	Combustion or thermal decomposition will involve toxic and corrosive vapours: Carbon monoxide (CO), Bromides (no furanes, no dioxins) Smoke		
EXTINGUISHING MEDIA:	Water Foam Dry powder Carbon dioxide		
FIRE FIGHTING PROTECTIVE EQUIPMENT:	In the presence of combustion or carbonisation gases, any fire fighting, rescue and 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: STORAGE TEMPERATURE: TRANSPORT TEMPERATURE: LOADING AND UNLOADING TEMPERATURE: STORAGE AND TRANSPORT PRESSURE: RISK OF ELECTROSTATIC CHARGING: NORMAL FORM OF TRANSPORTATION: SAFE STORAGE:	Avoid contact with naked flames and hot surfaces as irritant and toxic decomposition products can be formed. Ambient temperature Ambient temperature Ambient temperature Atmospheric Take measures against electrostatic charging. On pallets or goods wagons 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 EQUIPMENT:	If contact with hot material is possible, wear heat proof cloves, arm-and face 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.		



SAFETY DATA SHEET in accordance with 93/112/EC Doc.-No.: SD2704 – Re.No. 0 Issued May 2004 Page 3 from 4

## 9. PHYSICAL AND CHEMICAL PROPERTIES:

S. THIORAE AND ONE MICKET NOT ENTIRE.			
GENERAL INFORMATION: FORM: COLOUR:	product specification into cons solid metallic, white	reference values. Please take the technical sideration.	
ODOUR: CRYSTALLINE MELTING POINT: FLASH POINT	odourless 660/-/248/-/165 °C 340 °C	(ASTM D 4894)	
IGNITION TEMPERATURE: LOWER EXPLOSION LIMIT: VAPOUR PRESSURE:	335°C not applicable not applicable	(ASTM D 1929)	
DENSITY: SOLUBILITY IN WATER: HYGROSCOPIC ? PH-VALUE: VISCOSITY:	1,2 - 1,3 g/cm <sup>3</sup> insoluble no not applicable not applicable	(at 23 °C)	
DENSITY OF STEAM: EVAPORATION RATE: HEAT OF EVAPORATION: COEFFICIENT OF THERMAL EXPANSION OF LIQUID:	not applicable not applicable not applicable not applicable	(101,3 kPa/air=1) (n-Butylacetat = 1)	
VAPOUR PRESSURE: MOLECULAR WEIGHT:	not applicable 3.000 – 50.000		
10. STABILITY AND REACTIVITY:			
CHEMICAL STABILITY: THERMAL DECOMPOSITION:	Stable between – 240 °C and + 100 °C Temperatures above 300°C lead to the decomposition of the polymers.		
HAZARDOUS DECOMPOSITION PRODUCTS:	Thermal decomposition products are toxic and corrosive: Hydrocarbons carbon dioxide carbon monoxide		
HAZARDOUS COMBUSTION PRODUCTS:	smoke Reduced oxygen supply can cause the development of carbon monoxide and 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 com patible. According to present experience, the material is neither mu tagenic, cancerogenic nor teratogenic.		
42 ECOLOCICAL INFORMATION			
12. ECOLOGICAL INFORMATION:			
GENERAL INFORMATION:	Product is insoluble in water a		
	Product is insoluble in water a The material has no harmful e 0 (self estimation) Oxygen required lies under th	ffect on the environment	
GENERAL INFORMATION:	The material has no harmful e 0 (self estimation)	ffect on the environment	
GENERAL INFORMATION: WATER HAZARD CLASS:	The material has no harmful e 0 (self estimation) Oxygen required lies under th In accordance with the neces	ffect on the environment e detection limit of 50 mg/l. sary technical and local regulations may be ste without harmful effects to the envi-	



SAFETY DATA SHEET in accordance with 93/112/EC Doc.-No.: SD2704 – Re.No. 0 Issued May 2004 Page 4 from 4

14. NOTES ON TRANSPORT:

LAND TRANSPORT:

INLAND NAVIGATION: TRANSPORT BY SEA: AIR TRANSPORT:

DISPATCH BY POST:

**16. OTHER INFORMATION:** 

## **15. REGULATORY INFORMATION:**

LABELLING IN ACCORDANCE WITH GEFSTOFFV/EC: WATER HAZARD CLASS (WHC): OTHER REGULATIONS: Hazard warning labelling not compulsory

GGVS / GGVE:

ADR / RID:

IMDG / UN:

permitted

0

ADN / ADNR:

not applicable

ICAO-TI / IATA-DGR:

Air mail transport:

non-hazardous material non-hazardous material non-hazardous material non-hazardous material non-hazardous material permitted

This data sheet was prepared in accordance with the Guideline 93/112/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.