

# EC Safety Data Sheet

as per 91/155/EWG

Issued: 04/2006

Page 1 of 6

## 1. Product and company name

Details on manufacturer:

ALCAN Singen GmbH  
Alusingen-Platz 1  
D-78224 Singen/Htwl.

Phone: 07731/80-0  
Telefax: 07731/80-22 22

Designation of the product:

Material No., trademark: DILITE®

Description: DILITE®

## 2. Composition/details on components

Chemical characterisation:

Aluminum composite panels.  
Composite panels aluminium substrate outside, lacquered on one or both sides; polyethylene-core inside bonded with ethylene-based copolymere.

Hazardous ingredients: none

## 3. Possible risks

Description:

Lacquering or bonding medium may catch fire or burn, if edges are unprotected and if the composite panel is heated up to the inflammation point. Under such conditions there is a risk of decomposition and toxic gases may be released in a minor quantity (see section 5 and 10).

Specific risks for humans and the environment: none

**Manufacturer**  
ALCAN Singen GmbH

**Material No./trademark/description**  
DILITE®

#### 4. First aid measures

General: (none) At ambient temperature the material is not a health hazard. The material may be noxious if it is exposed to high temperatures (e.g. fire) only.

Inhalation:

In the case of contact with vapours or aerosols which develop at high temperatures, the person should be removed from the danger zone; adequate respiratory equipment should be used. If the breathing is irregular or even stops, artificial respiration will be necessary. Please make sure the injured person is positioned safely and ensure medical treatment.

Skin contact:

First aid is not usually required.

In case of contact with the hot product immerse the skin in cold water or rinse well with cold water to cool the skin down. Cover with a clean cloth and look for medical help. Please do not try to remove the substance itself or sticky clothes from the skin as you may damage the skin tissue.

Eye contact:

This product is inert. If any part of it gets into your eyes, remove it like other foreign matters.

Ingestion

First aid is not usually required.

#### 5. Fire fighting measures

Suitable extinguishing media:

To protect humans and ensure that the composite material is cooled down, please use a water jet in the danger zone. Please make sure no other inflammable agent reaches the danger zone. Extinguish the fire with a water jet.

Unsuitable extinguishing media for safety reasons: none

Special risks due to the material, its burning substances or released gases:

If there is insufficient oxygen, a small amount of carbon monoxide (CO) and irritating smoke may be released.

Special protective equipment for fire-fighting:

Respiratory and eye protection is required for fire-fighting teams. Please refer to sections 3, 8 and 10.

**Manufacturer**  
ALCAN Singen GmbH

**Material No./trademark/description**  
DILITE®

## 6. Accidental release measures

Personal precautions: Not applicable

Environmental protection: Not applicable

Clean-up procedures:

Collect product and dispose either as waste or for recycling. See sections 3, 8, 10 and 13.

## 7. Handling and storage

Handling:

Loading, unloading and transport at normal temperatures. Secure panels safely on pallets.

Storage:

Store on wooden or plastic pallets. Keep dry and make sure there is no direct or indirect (condensating) moisture.

## 8. Limitation of exposure and protection equipment

Additional information for design of technical equipment:

Not applicable

Exposure limit at the working place:

Not applicable

Personal protection equipment (body, hands, eyes, inhalation):

If there is a risk of contact, please wear safety goggles. If there is a risk of contact with hot material, please wear heat-proof gloves, respiratory and face protection.

**Manufacturer**  
ALCAN Singen GmbH

**Material No./trademark/description**  
DILITE®

**9. Physical and chemical properties**

Appearance: Composite panels

Colour: surface: depending on lacquer (single shade or special effect lacquer), core: black

Odour: Slight

Safety-related data (melting point, density, solubility, flash point):

Change of condition		
Melting point	PE-copolymer (hot melt)	97 - 102° C
	Al	660° C
Boiling point/boiling range		n/a
Flash point/method		n/a
Inflammation temperature of thermal decomposition products		> 350° C
Explosion limit in the air, % vol.		n/a
Vapour pressure (°C)		n/a
Density:	PE-copolymer (23°C)	0.91 - 0.97 g/cm <sup>3</sup>
	Lacquering	approx. 1,2 g/cm <sup>3</sup>
	Aluminium	approx. 2,7 g/cm <sup>3</sup>
Vapour density (101.3 kPa/air=l)		n/a
Water solubility		insoluble
Hygroscopic		no
pH-value		n/a
Viscosity (cSt)		n/a

**10. Stability and reactivity**

Conditions to be avoided (instability):

Temperatures above 300° C may cause the bonding medium to decompose.

Substances to be avoided:

Strong oxidants, strong acids, strong alkaline solutions.

Dangerous decomposition products:

Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), inflammable carbon hydride, nitrogen oxide and smoke.

# EC Safety Data Sheet

as per 91/155/EWG

Issued: 04/2006

Page 5 of 6

**Manufacturer**  
ALCAN Singen GmbH

**Material No./trademark/description**  
DILITE®

## 11. Toxicological information

Acute toxicity:

No acute toxicity known

Practical experience:

Inhalation: No health risk at normal ambient temperatures. At higher temperatures and unprotected edges, vapours and/or aerosols may be released which may cause irritation to eyes and respiratory tract.

Skin contact: No health risk at usual ambient temperatures. Contact with the hot product may cause burns.

Eye contact: Contact with edges may damage the conjunctiva and cause mechanical irritation.

## 12. Ecological data

Persistence and degradability: Stable

Aquatic toxicity: None

## 13. Disposal data

Recommendation:

Disposal according to the regulations of the local authorities. Return to the supplier for recycling purposes is possible.

Waste key No.: -

Waste description: -

## 14. Transport Data

Surface transport, ADR/RID/GGVS/GGVE category: No hazardous product

Inland waterways ADN/ADNR category: No hazardous product

Ocean freight transport IMDG/GGV ocean category: No hazardous product

Airfreight transport ICAO/IATA category: No hazardous product

Transport/additional indications: None

**Manufacturer**  
ALCAN Singen GmbH

**Material No./trademark/description**  
DILITE®

**15. Regulations**

15.1 Marking

No labelling requirements according to EC regulations

Indication letter and risk designation:

No marking requirements

15.2 National regulations

Accident regulations: n/a

Classification to VbF: not subject to classification

Emission class (TA-Luft): n/a

Water-pollution class (WGK): 0 (internal classification)

Other regulations: n/a

**16. Additional Indications**

Please ensure the proper use of the product in every specific area.

Recommended use and restrictions:

The indications made above only refer to the product described herein. However, these indications may become invalid as soon as the product is used in combination with other materials or in a production process. The statements are made on the basis of our knowledge and experience at the date indicated. No guarantee is given for correctness, reliability or completeness. The user should make sure that all details provided are suitable and complete for the specific purpose.

Contact:  
Mr. Wauer / CD  
[stefan.wauer@alcan.com](mailto:stefan.wauer@alcan.com)