

LENDERINK TECHNOLOGIES INC.

1267 House NE
Belmont, MI 49306
(616) 887-8257

MSDS H: #204TS and #581TS Phenolic Dry Film Adhesive

1. Identification of product and supplying company

Lenderink and Affiliate

Supplier

Lenderink Technologies
1267 House Road NE
Belmont MI 49306 USA

Emergency Telephone Number	616-887-8257
Telephone Number for Information	616-887-8257
Date Prepared	01/01/2006

2. Composition/Information on ingredients

Chemical characterization

Phenoformaldehyde condensation resin on tissue carrier

Hazardous ingredients

None

CAS-registry no.:	inapplicable	Danger symbol:	inapplicable
EC-registry no.:	inapplicable	R-Sätze:	inapplicable

3. Hazards identification

At temperatures > 100 °C formaldehyde in low quantities can be released.

Formaldehyde is noted in the MAK-list of TRGS 900.

MAK-value formaldehyde: 0.5 ppm (0.6 mg/m³)(maximum limit category I)

MAK-value phenol: 5.0 ppm

4. Emergency and first aid procedures

General advice

In case of inhaling gaseous decomposition products in major quantities, move the affected person out into the fresh air immediately and in a resting position.

Cuts have to be cleaned thoroughly and covered sterile.

5. Fire fighting measures

Extinguishing media: water, water vapor, foam, powder

Approved respiratory protection required.

6. Accidental release measures

Clear up film waste mechanically, avoiding dust creation and dispose material according to regulations.

7. Handling and storage

Store film material in a dry and cool place.

Provide for sufficient ventilation during production.

Use impervious gloves during handling.

In case of exceeding the release limit of formaldehyde (0.15 mg/m³), a medical check-up according to G23 and G24 is required.

8. Exposure controls and personal protection

Limits of exposure see chapter 15.

Respiratory protection: gasfilter acc. DIN 3181 B, in case of exceeding the MAK-values

Eye protection: none required

Hand protection: impervious gloves recommended

9. Physical and chemical properties

Form:	brittle film in rolls or sheets
Color:	reddish brown, ochre to pink
Odour:	faint
Boiling point:	not applicable
Flash point:	> 200 °C
Area weight:	80 - 150 g/m ²
Vapour pressure:	not applicable
Solubility in water:	low
pH-value watery solution:	6 - 8
Dust explosion limit:	not determined

10. Reactivity

Thermal decomposition: -

Hazardous decomposition products: None if used properly. In case of fire and/or thermal decomposition, carbon monoxide, carbon dioxide and other toxic gases can be generated.

Hazardous reactions: None if used properly.

11. Toxicity information

Acute toxicity: not applicable

Experience from practice: May cause permanent irritation or allergies due to prolonged or repeated contact.

12. Ecological information

Due to low solubility in water, slight mechanical separation can take place.

Due to the low content of formaldehyde, extraction solutions are biodegradable.

Danger to water (WKG) 1 - self assessment

13. Waste disposal

Advice on disposal: Under observance of local regulations the product can be disposed or incinerated in appropriate incineration plants.

Waste key no.: 120105 - synthetic material

Proof of disposal: In case of disposal, if quantity threshold is being exceeded, proof of disposal required.
In case of material or thermal utilization, no proof of disposal required.

14. Transport information

Classification acc. to ADS of 01.07.2001 no GGVS/GGVE/ADR/MDG-code/ICAO-TI

15. Regulations

Marking acc. to EU-standard 91/155 EWG and GefStoffV not required.

No rating acc. to VbF.

Instructions of the BG Chemie M010 "Formaldehyde" and M053 "General working safety data measures for the handling of hazardous goods" shall be observed.

16. Further information

Threshold odor number for formaldehyde: 0.05 - 1.00 ppm.

This information given is based on present state of knowledge and experience. The safety data sheet describes the product in respect of safety requirements.

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