

Composites / Information on ingredients:	
Chemical characterization:	Diphenylmethane diisocyanate (MDI)
Hazard symbol:	Xn; Xi R 20;R36/37/38; R 42/43
Dangerous constituents:	Diphenylmethane diisocyanate, isomeric/ homologous, mixture
CAS-No.:	26447-40 5 (4)
EG-No.:	615-005-00-9
Content:	> 80 < 98 %
Potential hazards:	
Special instructions for human and environment:	Harmful if inhaled, irritates the eyes, respiratory organs and the skin, may cause sensitisation by inhalation.
Classification system:	The classification corresponds to the actual EC lists, but is supplemented by information from the specialist literature and by company data.
First aid measures:	
General instructions:	Immediately change, decontaminate and dispose all soiled and contaminated clothing.
After inhalation:	Inhalation of aerosols or vapour at high concentrations: Bring the person into fresh air, keep warm and let rest, if breathing becomes difficult, medical attention is required.
After skin contact:	After skin contact preferably wash with cleaner based on polyethylene glycole or clean with a lot of warm water and soap. Consult a doctor after skin contact.
After eye contact:	Rinse carefully and thoroughly with lukewarm water with open eye-lid; keep the eyelids apart from the eyeball. Consult a doctor in any case.
After swallowing:	Do not induce vomiting. Medical assistance necessary!
Instructions for the doctor:	The product irritates the respiratory system and is potential trigger for skin and respiratory sensitisation. The treatment of the acute irritation or bronchial contraction is primarily symptomatic. Depending on the extent of exposure and the symptoms a longer medical support may be necessary.

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<u>Fire-fighting measures:</u>	
Suitable extinguishing medium:	Extinguishing powder, carbon dioxide, foam, water spray
Special protective equipment:	Respirator with independent air supply necessary.
Further details:	In case of fire development of carbon monoxide, nitrogen oxide, isocyanate vapour and traces of hydrogen cyanide is possible. Do not let contaminated extinguishing water get into the ground or in waters.
<u>Maßnahmen bei unbeabsichtigter Freisetzung:</u>	
Personal precautions:	Ensure sufficient air supply. Keep away unauthorised personnel.
Environmental measures:	Do not empty into drains.
Measures for cleanding / absorption:	Cover with wet, absorbent material (e.g. sand, sawdust, chemical binder based on calcium silicate hydrate). Take into waste container after approx. 1 hour, do not seal. (CO ₂ -liberation!). Keep damp at a safe place for 7 – 14 days. Dispose waste product as indicated under point 13.
<u>Handling and storage:</u>	
Information for safe handling:	Ensure sufficient ventilation or suction at the work place. Air suction necessary for spray processing. Avoid contact with skin and eyes.
Information on fire and explosion protection:	Explosion protection measures not necessary.
Storage conditions:	Store separate from food and beverage.
Requirements for storage rooms and containers:	Keep the container dry and tightly sealed at 10-25°C in a well-ventilated place. Avoid heating above 30°C.
Hints for combined storage:	not required
Storage category:	VbF-Klasse: cancelled
<u>Exposure control and personal protective equipment:</u>	
Additional information on the design of technical installations:	No further indications; see "Handling and storage"
Personal protective equipment:	Components with specific control parameters. Wear suitable protective clothing, gloves and eye/face protection.
Respiratory protection:	Necessary in insufficiently ventilated working areas: Use respiratory equipment during spray application or (only briefly) combination filter A2-P2.

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Toxicological information

Acute toxicity

Classification relevance:

LD/LC50-value:

LD 50 oral / rat > 5.000 mg/kg

LC50 inhalative/rat: 490mg als Aerosol/m³. 4 hours
Exposition. Concentration of saturated vapour of MDI at
25°C: 0,09mg/m³

Additional indications:

Irritating and corrosive effects:

Eyes:

Briefly causes slight irritation and reddening of conjunctiva as well as slight reversible opacity of the cornea. Product vapours irritate the eyes and the mucous membranes in high concentrations.

Skin:

At prolonged contact with skin tanning and irritant effects are possible.

Respiratory tract:

Product vapours in high concentrations irritate eyes and mucous membranes.

Particular effects:

Irritation of the mucous membranes of nose, throat and lung, dryness of the throat, pressure on the chest, occasionally in connection with breathing difficulties and headaches.

Complaints and allergic reactions can occur to persons who are susceptible to it.

Sensitization possible by inhalation.

Sensitization of the skin not unrateable, as contradictory results are available.

Ecological information

Information about elimination:

Behaviour in waters:

Do not allow to enter waters, waste water, or soil!

Immiscible with water. Reacts with water at the interface forming carbon dioxide to a solid, insoluble reaction product (Polyurea) with high melting point.

This reaction is highly optimized by surfactant substances (e.g. liquid soaps) or water soluble solvents. Polyurea is according to experiences so far inert and not degradable.

Behaviour in environmental:

Water endangering product

WGK 1: slightly water endangering (self-classification)

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Instructions for disposal:

Product:	Component B for 2855-T125
Recommendation:	Can be incinerated in compliance with official regulations in suitable facilities.
European waste catalogue:	
Uncleaned packagings:	Waste disposal according to official state regulations. .

Transport information

Overland transport: ADR / RID	Class: no	Number/Letter -
	Hazard-Nr.: -	Substance-Nr.: -
Sea transport.: IMDG/GGVSea:	Class: -	UN-Nr.: no
	PG: EMS: -	
	MPO: no	MFAG: -
	ADNR.KI.: no	
Correct technical designation:	.-.	
Express goods according to GGVE authorized:	Germany: Yes	
Air transport: IOCA / IATA:	Class:	UN/ID-Nr.:
	PG:	Number:
Declaration air:		

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Provisions:

Classification according to hazardous substances ordinance and EC directives:

Code letter:

Xn; Xi

Hazard designation:

Injurious to health, irritant

Contains:

Diphenylmethane-diisocyanate, Isomeric/Homologous, techn. MDI

Occupational safety:

Air limit values TRGS 900

Diphenylmethane-diisocyanate, (CAS-Nr: 26447-5(4))

0,005 ml/m³ (ppm) = 0,05 mg/m³

RG

The corresponding BAT-value TRGS 93 must be observed.

R20

Gesundheitsschädlich beim Einatmen.

R36/37/38

Irritates the eyes, respiratory organs and the skin.

R42/43

Sensitization by inhalation and skin contact possible.

S23

Do not inhale steam/aerosole.

S36/37

Wear suitable protective gloves and protective clothing during work.

S45

Consult a doctor in case of an accident or discomfort; if possible show this data sheet.

Classification according to VbF:

Omitted

TA-air:

Class 1

Water hazard class:

WGK 1 slightly water endangering according to VwVwS (Self-classification)

Other specifications:

Also comply with the leaflet M 044 "Isocyanate" of the BG Chemie.

Also comply with the accident prevention regulations (UVV) VBG 91 of the BG Chemie.

The above information is based on the current state of our knowledge and experience. However, they do not constitute a guarantee of product properties and they do not justify a contractual legal relationship.

Department issuing data sheet:

Product safety department