The following Risk Characterization is valid for TDI mixed isomers (CAS 26471-62-5, EC 247-722-4)

and modified prepolymers based on these

Please notice, the OELs (Occupational Exposure Limits) remain in force parallel to the following PNECs and DN(M)ELs

PNEC = Predicted No Effect Concentration

DN(M)EL = Derived No (Minimal) Effect Level

Polymeric raw materials like PMDI, many Polyols or TDI based prepolymers do not have exposure scenarios because of an exemption provided by the regulator

In context of site - safety and for responsible care reasons we advice to treat classified classified Prepolymers made with the a.m. TDI's like these Isocyanate

The risk characterization of TDI mixed isomers has been conducted based on the PNECs and DNELs in the following tables.

PNEC = Predicted No Effect Concentration used in the modelling

Compartments	PNEC
Freshwater (mg/l)	0.013
Marine water (mg/l)	1.25•10-3
Freshwater sediment (mg/kg dw)	n.r.
Marine sediment (mg/kg dw)	n.r.
Soil (mg/kg dw)	> 1.0
Sewage Treatment plant (mg/l)	> 1.0

DNEL = Derived No Effect Level

used in the risk assessment

DNELs were not derived for the general population as consumer exposure to TDI mixed isomers is as yet unidentified

DNELs for workers	
Route	DNEL
Acute - systemic effects	
Inhalation (mg/m3)	0.14
	not
Dermal (mg/kg bw/day)	quantifiable
Acute - local effects	0.4.4
Inhalation (mg/m3)	0.14 not
Dermal (mg/cm2)	quantifiable
Long-term - systemic effects	
	not
Dermal (mg/kg bw/day)	quantifiable
Inhalation (mg/m3)	0.035
Long-term - local effects	
	not
Dermal (mg/cm2)	quantifiable
Inhalation (mg/m3)	0.035