

1 Prioritised substance group: Diisocyanates- REVIEWED- NOT UPDATED

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1.1 Policy-related questions

1. What is the current occupational exposure to diisocyanates?
2. What are the best markers to identify hazardous exposures to diisocyanates?
3. What is the likely impact of the forthcoming REACH restriction of diisocyanates?
4. What are the health risks and human health impacts of the current occupational diisocyanate exposures?

1.2 Research Activities to be undertaken

Table 1 Research activities research activities to be carried out to answer the policy questions for diisocyanates

| Policy question | Substance | Available knowledge | Knowledge gaps and activities needed |
|-----------------|---------------------------------|---|--|
| 1 | All diisocyanates | Sporadic information on exposures available, not very recent | <u>Action</u> : Review of the available data on diisocyanates, identification of data gaps (sectors with limited data) |
| 1,2,3 | All group a and b diisocyanates | Sporadic information on exposures available, not very recent. Different approaches for biomonitoring available. | <u>Gaps</u> : Exposure in SMEs using diisocyanates for different purposes? Sensitivity of the HBM methods at low exposure levels? <u>Action</u> : Occupational survey focused on sectors with limited data available. This provides a base-line to study the effects of the restriction and should include also testing of different biomarkers for their sensitivity at low exposure levels. |
| 4 | MDI, TDI, (HDI) | Sensitization capacity of diisocyanates known. Also some diisocyanates possibly carcinogenic. | <u>Gaps</u> : What are the risks at current exposure levels? Is there a cancer risk due to formation of respective diamines? <u>Action</u> : Risk assessment based on biomonitoring data taking into account both asthma and cancer risks. This may need also PBPK modelling data. |