

Product Risk Assessment



Figure 1: The GPS Risk Assessment Process STEP 1: Select Substances for Risk Assessment STEP 2: Gather all available information from internal and external sources on hazard and exposure STEP 3: Allocate Substances to Priorities Priority 1 Priority 2 Priority 3 Priority 4 Medium Exposure High Exposure Low Exposure Very Low Exposure Medium Hazard High Hazard Low Hazard Very Low Hazard potential potential potential Top priority for RA 3rd priority for RA 2nd priority for RA No further action needed STEP 4: Complete Priority Relevant Information STEP 5: Hazard Characterization STEP 6: Exposure Assessment iterative process

STEP 7: Risk Characterization

STEP 8: Document outcome company internally (risk assessment report) and share relevant information with the public (GPS safety Summary)

b) Environment (based on GHS classification criteria)

Hazard Endpoint	Decision Yes	Decision Yes	Decision No	Decision No
Hazardous level	Level 1	Level 2	Level 3	Level 4
Acute toxicity	UN GHS Cat 1 For substances and tested mixtures: L(E)C50 s 1 mg/L where L(E)C50 is either fish 96hr LC50, crustacea 48hr EC LC50 or aquatic plant 72 or 96hr ErC50	UN GHS Cat 2 For substances and tested mixtures: 1mg/L < L(E)C50 ≤ 10mg/L where L(E)C50 is either fish 96hr LC50, crustacea 48hr EC LC50 or aquatic plant 72 or 96hr ErC50	UN GHS Cat 3 For Substances and tested mixtures: 10mg/L < L(E)C50 ≤ 100mg/L where L(E)C50 is either fish 96hr LC50, crustacea 48hr EC LC50 or aquatic plant 72 or 96hr ErC50	No classification No acute toxicity
Chronic toxicity	UN GHS Cat 1 For substances: • L(E)C50 ≤ 1 mg/L; and • Lack the potential to rapidly biodegrade and/or have the potential to bioaccumulate (BCF≥ 500 or if absent log Kow ≥ 4) where L(E)C50 is either fish 96hr LC50, crustacea 48hr EC LC50 or aquatic plant 72 or 96hr ErC50	UN GHS Cat 2 For substances: • 1 mg/L < L(E)C50 ≤ 10 mg/L; and • Lack the potential to rapidly biodegrade and/or have the potential to bioaccumulate (BCF≥ 500 or if absent log Kow ≥ 4); unless • Chronic NOECs > 1 mg/L	UN GHS Cat 3 For substances: • 10 mg/L < L(E)C50 ≤ 100 mg/l; and • Lack the potential to rapidly biodegrade and/or have the potential to bioaccumulate (BCF≥ 500 or if absent log Kow ≥ 4); unless • Chronic NOECs > 1mg/L	UN GHS Cat 4 For substances: • Poorly soluble and no acute toxicity is observed up the water solubility • Lack the potential to rapidly biodegrade and have the potential to bioaccumulate (BCF≥ 500 or if absent log Kow ≥ 4); unless • Chronic NOECs > 1mg/L
Persistence	T1/2 marine, fresh water > 60 d T1/2 marine, fresh sediment > 180 d	T1/2 marine water > 60 days, or fresh water > 40 d T1/2 marine sediment > 180 d, T1/2 soil > 120 d	Not applicable	Not PBT
Bioaccumulation	BCF > 5000 L/kg	BCF > 2000 L/kg	Not applicable	Not PBT





