

Table S2. Reference databases (DBs)

Reference DB	DB website	Test data available		
		Physical and chemical properties	Human hazards	Environmental hazards
NCIS (Korea)	ncis.nier.go.kr	○	○	○
Safety test (Korea)	ncis.nier.go.kr	○	○	○
OECD SIDS (EU)	www.chem.unep.ch/irptc/sids/OECD/SIDS/indexcasnumb.htm	○	○	○
GHS classification result (EU)	esis.jrc.ec.europa.eu/index.html	○	○	○
GHS classification result (Korea)	ncis.nier.go.kr/ghs/search/toxic_contain_chem_label.jsp	○	○	○
ECB IUCLID (EU)	esis.jrc.ec.europa.eu/	○	○	○
HSDB (USA)	toxnet.nlm.nih.gov/newtoxnet/hsdb.htm	○	○	○
IPCS EHCs (EU)	http://www.inchem.org/pages/ehc.html	-	○	○
ATSDR (USA)	www.atsdr.cdc.gov/toxprofiles/index.asp	-	○	-
Japan safety Evaluation report (Japan)	www.safe.nite.go.jp/english/sougou/view/TotalSrchnInput_en.faces	-	○	○
CCRIS (USA)	toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?CCRIS	-	○	-
GENETOX (USA)	toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?GENETOX	-	○	-
EPA IRIS (USA)	cfpub.epa.gov/ncea/iris/index.cfm?fuseaction=iris.showsubstanceList	-	○	-
ECOTOX (USA)	cfpub.epa.gov/ecotox/quick_query.htm	-	-	○
Chemical DB (USA)	ull.chemistry.uakron.edu/erd/	○	-	-
ChemIDplus (USA)	chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp	○	-	-
Total	16	9	13	10