

Substance Name	Substance Information Page	Legend	Decisive substance sameness criterion
Slags, lead reveratory smelting	http://echa.europa.eu/brief-profile/-/briefprofile/100.098.593		Indicative substance sameness criterion
Substance description:	(EC description) By-product from the smelting of lead ores, scrap lead or lead smelter dross. Consists primarily of oxides and silicates of antimony and lead.		No substance sameness criterion
SIEF description:	Slags, lead reveratory smelting are slags formed during primary or secondary lead smelting operations. The slags contain relatively high concentrations of lead, as well as impurity base metals, all of which are mainly present as oxides, silicates or sulphates.		

Substance Identity	EC/list name:	Slags, lead reveratory smelting	SMILES:	not applicable
	IUPAC name:		InChI:	not applicable
	Other names:		Type of substance:	UVCB
	EC/List no.:	273-800-2	origin:	Inorganic
	CAS no.:	69029-58-9		
	Molecular formula:	not applicable	Substance listed	

SID parameters	Sameness criteria	Indication of variability (fixed, low or high variation)
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Sources (input materials)	Lead-bearing materials from primary and secondary sources, including intermediates.	medium
Process	Production: in smelter or reveratory furnace <u>under oxidising atmosphere.</u>	fixed
	Separation: tapping	fixed

Elemental composition	Core	min (% w/w)	max (% w/w)	Typical (%w/w)	
	Lead	15	70	29.3	medium
	Silicon	2	26	19.3	low
	Iron	2	25	11.8	low
	Calcium	0	25	7.4	low
	Aluminium	0	8	4.6	low
	Sulphur	0	5	0.63	low
	Copper	0	14	7.0	low
	Antimony	0	5	1.5	low
	Zinc	0	14	6.8	low
	Cadmium	0	0.3	0.14	low
	Cobalt	0	1	0.08	low
	Nickel	0	10	0.07	low
	Silver	0	1	0.4	low
	Gold	0	1	0.5	low
	Arsenic	0	10	1.1	low
	Bismuth	0	10	0.12	low
	Tin	0	10	1.77	low
	Selenium	0	0.2	0.09	low
	Tellurium	0	0.2	0.06	low
	Chromium	0	1	0.4	low
	Molybdenum	0	1	0.2	low
	Manganese	0	2	1.03	low
	Sodium	0	5	1.00	low
	Potassium	0	5	0.05	low
	Magnesium	0	10	0.9	low
	Other constituents				low
	Sum=			72.4	
Mineralogical composition	Lead silicates			64	medium
	Iron oxides			23	low
	Lead sulfides			3	low
	Lead oxides			1	low
	Sum=			87	
Physical characteristics	physical state (at 20°C, 1013 hPa)	Solid; granules (coarse chunks)			Fixed
	colour	Dark; black-brown to red/purple-brown to grey-green			Medium

Conclusion	Slags, lead reveratory smelting is a solid in granular form. It is from oxidising smelting processes applied on primary and secondary lead-containing feeds . Slags, lead reveratory smelting is composed primarily of lead silicates and iron oxides .
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