Substance Name:	Substance Information Pa	age:			
Lead alloy, base, Sn, Pb,	http://echa.europa.eu/registration-dossier/-/registered-dossier/15040			Decisive substance	
dross				sameness criterion	
				Indicative substance	
				sameness criterion	
Substance description:	Oxides formed during me	No substance sameness			
	tin, lead and antimony; n	Ifur, arsenic, copper and silver.	criterion		
Original SIEF description:	Lead alloy, base, Sn, Pb dross is formed on the surface of molten				
	metal in the production of lead-tin based alloys (casting solders).				
	Lead alloy, base, Sn, Pb, dross consists of variable amounts of lead,				
	tin, sodium, copper and other metals in either alloy form or as				
	compounds such as oxide	es and silicates.			
Substance Identity	EC/list name:	Lead alloy, base, Sn.	SMILES:	not applicable	
·····	-,	Pb, dross			
	IUPAC name:		InChl:	not applicable	
	Other names		Type of substance:	UVCB	
	EC/List no.:	273-701-4	origin:	Inorganic	
	CAS no.:	69011-60-5			
	Molecular formula:	not applicable	Substance listed		

SID parameters	Sameness criteria	Indication of variability (fixed, low or high variation)
Sources (input materials)	Lead- and tin-bearing materials, from primary sources and/or the recycling of lead-containing materials including scrap used to produce lead-tin alloys.	low
Process	The substance is formed due to oxidation at the surface of the molten metal during the production of lead-tin alloys (casting solders) at elevated temperatures in kettles, during use of those alloys in solder baths (200-300°C) and solder wires. It may also be produced in lead bullion refining processes using oxygen or sodium hydroxide.	medium
	Separation: skimming	fixed

Elemental composition	Core	min (% w/w)	max (% w/w)	Typical (%w/w)	
	Lead	Min	0.5	85	high
	Tin	Mi	n 2	60	high
	Copper	0	62	39.2	medium
	Silicon	0	30	15.9	medium
	Sodium	0	20	17.2	low
	Antimony	0	30	15	low
	Aluminium	0	10	0.16	low
	Zinc	0	10	5	low
	Iron	0	10	5.3	low
	Sulphur	0	10	0.6	low
	Arsenic	0	1	0.4	low
	Cadmium	0	5	0.1	low
	Nickel	0	14	8.3	low
	Silver	0	10	5	low
	Bismuth	0	0.5	0.14	low
	Tellurium	0	0.1	0.01	low

	Sum=				
Mineralogical composition	Oxides of tin	5	60	40	medium
	Oxides of lead	10	85	50	medium
	Metallic lead	10	30	25	medium
	Metallic tin	10	50	40	medium
	Other base metals as silicates,	5	30	15	
	oxides, sulphides, or in metallic				
	form				
	Sum=				1
Physical characteristics	physical state (at 20°C, 1013 hPa)	Solid; granular or particulate form			
	colour	grey-brown			-
Conclusion	Lead alloy, base, Sn, Pb, dross' i surface layer formed during the	s a <u>solid in granular o</u> production and/or u	r particulate form. It is se of lead-tin alloys ur	s produced by <u>skimm</u> ider oxidising condition	ing the pre-

<u>surface layer</u> formed during the <u>production and/or use of lead-tin alloys</u> under <u>oxidising conditions</u>. 'Lead alloy, base, Sn, Pb, dross' is composed primarily of <u>lead and tin in oxide and/or metallic form</u>, and may contain amounts of sodium, copper and antimony in oxide, silicate, sulphide and/or metallic forms.