

Grade name: Substance: EC Number: CAS Number: Substance Type: Degree of purity: Description of Product: Lead, dross, copper rich Lead, dross, copper rich 273-925-2 69227-11-8 UVCB 100 % (w/w) 'Lead-dross, copper-rich' is a solid at 20°C and 101.3 kPa produced by chemical reactions during the cooling of molten lead bullion to temperatures in the range >330°C - 450°C. The resultant sulphidic precipitate formed on the surface is removed by skimming. 'Lead, dross, copper-rich' is composed primarily of metallic lead, lead sulphides and copper sulphides.

Composition:

Constituent	Typical concentration	Concentration range	Remarks
Lead EC no.: 231-100-4	≤ 93.19 % (w/w)	>10.0 — ≤95.0 % (w/w)	refers to % element. In general Pb is mainly present in the metallic form and may also be present in the form of compounds such as sulphides (e.g. PbS, PbCuS), oxides (e.g. PbO, PbSb2O6, SnPbNaO) and in the form of an alloy (e.g. PbMoSe).
Copper EC no.: 231-159-6	≤ 24.0 % (w/w)	>0.0 — ≤40.0 % (w/w)	refers to % element. In general Cu is mainly present in the sulphide form (e.g. Cu2S, CuFeS2, PbCuS) and may also be present in the form of other compounds such as oxides (e.g. ZnCuAgO) and/or in the form of alloys (e.g. Cu3(Sn,Sb) and/or in the form of arsenides (e.g. CuAs).
Sulphur EC no.: 231-722-6	≤ 15.0 % (w/w)	>0.0 — ≤30.0 % (w/w)	refers to % element. S is generally present in the form of sulphides (e.g. PbS, CuFeS2, CdS) and may also be present in the form of sulphates (e.g. ZnSO4).
Zinc EC no.: 231-175-3	≤ 2.0 % (w/w)	≥0.0 — ≤10.0 % (w/w)	refers to % element. Zn is generally present in the form of compounds such as sulphides (e.g. ZnS, ZnSe(Mo,Cd)S) and/or oxides (e.g. ZnCuAgO), hydroxides (e.g. ZnOH) and sulphates (e.g. ZnSO4).
Cadmium EC no.: 231-152-8	≤ 0.83 % (w/w)	≥0.0 — ≤4.0 % (w/w)	refers to % element. Cd is generally present in the sulphide form (e.g. ZnSe(Mo,Cd)S, CdS).
Iron EC no.: 231-096-4	≤ 9.77 % (w/w)	≥0.0 — ≤12.5 % (w/w)	refers to % element. Fe is generally present in the oxide form (e.g. FeZnoxide, Fe3O4) and may also be present in the form of other compounds such as sulphides (e.g. FeS2, CuFeS2) and/or in the form of arsenides (e.g. CuAs).
Cobalt EC no.: 231-158-0	≤ 0.116 % (w/w)	≥0.0 — ≤1.0 % (w/w)	refers to % element. Co is assumed to be present in the oxide form.

Constituent	Typical	Concentration	Remarks
	concentration	range	
Nickel	≤ 2.17 % (w/w)	≥0.0 — ≤2.5 %	refers to % element. Ni is generally present in the form of an
EC no.: 231-111-4		(w/w)	alloy (e.g. SbNiAs, SnNiSb, NiSbSnAg).
O'h e e			
Silver	≤ 0.906 % (w/w)	≥0.0 — ≤5.0 % (w/w)	refers to % element. Ag is generally present in the form of an alloy (e.g. AgSn, NiSbSnAg).
EC no.: 231-131-3			
Antimony	≤ 11.0	≥0.0 — ≤20.0 %	refers to % element. Sb is generally present in the form of
EC no.: 231-146-5		(w/w)	an alloy (e.g. SbNiAs, SnNiSb, NiSbSnAg) and may also be present in the oxide form (e.g. PbSbAsO, PbSb2O6).
Arsenic	≤ 4.92 % (w/w)	≥0.0 — ≤10.0 %	refers to % element. As is generally present in the form of
EC no.: 231-148-6		(w/w)	an alloy (e.g. SbNiAs) and in the oxide form (e.g. PbSbAsO) and/or in the form of arsenides (e.g. CuAs, FeAs).
Bismuth	≤ 0.45 % (w/w)	≥0.0 — ≤1.0 %	refers to % element. Bi is generally present in the metallic
EC no.: 231-177-4		(w/w)	form.
Tin	≤ 9.24 % (w/w)	≥0.0 — ≤40.0 %	refers to % element. Sn is generally present in the oxide
EC no.: 231-141-8		(w/w)	form (e.g. SnPbNaO, SnNaO) and/or in the form of an alloy (e.g. SnNiSb, Cu3(Sn,Sb), AgSn, NiSbSnAg).
Selenium	≤ 1.21 % (w/w)	≥0.0 — ≤3.0 %	refers to % element. Se is generally present in the form of
EC no.: 231-957-4		(w/w)	an alloy (e.g. PbMoSe) or in the form of a compound (e.g. ZnSe(Mo,Cd)S).
Tellurium	≤ 2.49 % (w/w)	≥0.0 — ≤3.5 %	refers to % element. Te is assumed to be present in the
EC no.: 236-813-4		(w/w)	oxide form.
Aluminium	≤ 0.1 % (w/w)	≥0.0 — ≤2.0 %	refers to % element. Al is assumed to be present in the form
EC no.: 231-072-3		(w/w)	of a compound.
Manganese	≤ 0.1 % (w/w)	≥0.0 — ≤0.5 %	refers to % element. Mn is assumed to be present in the
EC no.: 231-105-1		(w/w)	oxide form.
Silicon	≤ 0.6 % (w/w)	≥0.0 — ≤2.5 %	refers to % element. Si is generally present in the form of
EC no.: 231-130-8		(w/w)	silicates (e.g. SiO2).
Deteccium	< 0.49.9/ (m/m)	≥0.0 — ≤0.5 %	refere to 0/ element 1/ is assumed to be present in the form
Potassium	≤ 0.48 % (w/w)	≥0.0 — ≤0.5 % (w/w)	refers to % element. K is assumed to be present in the form of a compound.
EC no.: 231-119-8			
Sodium	≤ 1.33 % (w/w)	≥0.0 — ≤2.0 %	refers to % element. Na is generally present in the oxide
EC no.: 231-132-9		(w/w)	form (e.g. SnPbNaO, SnNaO).
Magnesium	≤ 0.4 % (w/w)	≥0.0 — ≤12.0 %	refers to % element. Mg is assumed to be present in the
EC no.: 231-104-6		(w/w)	form of a compound.
	≤ 0.6 % (w/w)	≥0.0 — ≤2.5 %	refers to % element. Ca is assumed to be present in the

Constituent	Concentration range	Remarks
EC no.: 231-179-5		

Classification:

Industry self-classification in accordance with the Classification Labelling and Packaging Regulation EC 1272/2008 (CLP):

Acute Tox. 4; H302: Harmful if swallowed.
Acute Tox. 4; H332: Harmful if inhaled.
Skin Sens. 1; H317: May cause an allergic skin reaction.
Resp. Sens. 1; H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Muta. 2; H341: Suspected of causing genetic
Carc. 1A; H350: May cause cancer.
Repr. 1A; H360FD: May damage fertility. May damage the unborn child.
Lact.; H362: May cause harm to breast-fed children
STOT Rep. Exp. 1; H372: Causes damage to organs through prolonged or repeated exposure.
Aquatic Chronic 1; H410: Very toxic to aquatic life with long lasting effects.

Labelling

Signal word: Danger

Hazard pictograms:



GHS07: exclamation mark



GHS08: health hazard



Hazard statements:

H302	Harmful if swallowed.
H332	Harmful if inhaled.
H317	May cause an allergic skin reaction.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H360FD	May damage fertility. May damage the unborn child.
H362	May cause harm to breast-fed children.
H372	Causes damage to central nervous system, blood and kidneys through prolonged or
	repeated exposure by inhalation or ingestion.
H410	Very toxic to aquatic life with long lasting effects.

Disclaimer

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