Grade name: Slags, lead smelting (not classified)
Substance: Slags, lead smelting
EC Number: 273-825-9
CAS Number: 69029-84-1
Substance Type: UVCB
Degree of purity: 100 % (w/w)
Description of Product: Slags lead smelting are iron silicate based slags that are produced to remove high melting point impurities during the smelting of lead.

Composition:

Constituents	Typical concentration	Concentration range	Remarks
Lead EC no.: 231-100-4	<= 1.74 % (w/w)	>= 0 — <= 1.74 % (w/w)	Refers to % element. In general Pb is mainly present in the metallic form. Pb is also present in form of compounds such as oxides (e.g. PbO).
Copper EC no.: 231-159-6	<= 0.382 % (w/w)	>= 0 — <= 0.382 % (w/w)	Refers to % element. Cu is generally present in the form of sulphides (e.g. Cu2S, Cu5FeS4) or in the form of an alloy (e.g. Cu(Sn,Sb), SnNiSbCu).
Cobalt EC no.: 231-158-0	<= 0.098 % (w/w)	>= 0 — <= 0.098 % (w/w)	Refers to % element. Co is assumed to be present in the oxide form.
Sulfur EC no.: 231-722-6	<= 1.2 % (w/w)	>= 0 — <= 1.2 % (w/w)	Refers to % element. S is generally present in the sulphide form (e.g. FeS, Cu5FeS4).
Arsenic EC no.: 231-148-6	<= 0.073 % (w/w)	>= 0 — <= 0.073 % (w/w)	Refers to % element. As is generally present in the form of an alloy (e.g. NiSnSbAs).
Zinc EC no.: 231-175-3	<= 4.4 % (w/w)	>= 0 — <= 4.4 % (w/w)	Refers to % element. Zn is generally present in the form of sulphides (e.g. ZnFeS2) and silicates (e.g. Ca2ZnSi2O7).
Iron EC no.: 231-096-4	<= 23.1 % (w/w)	>= 0 — <= 23.1 % (w/w)	Refers to % element. Fe is generally present in the compounds form such as oxides (e.g. FeO, Fe3O4), sulphides (e.g. FeS, Cu5FeS4, ZnFeS2) and/ or silicates (e.g. Fe2SiO4).
Nickel EC no.: 231-111-4	<= 0.04 % (w/w)	>= 0 — <= 0.04 % (w/w)	Refers to % element. Ni is generally present in the form of an alloy (e.g. SnNiSbCu, NiSnSbAs).
Bismuth EC no.: 231-177-4	<= 0.01 % (w/w)	>= 0 — <= 0.01 % (w/w)	Refers to % element. Bi is assumed to be present in the

Constituents	Typical concentration	Concentration range	Remarks
			oxide form.
Tin EC no.: 231-141-8	<= 0.535 % (w/w)	>= 0 — <= 0.535 % (w/w)	Refers to % element. Sn is generally present in the form of an alloy (e.g. Cu(Sn,Sb), NiSnSbAs, SnNiSbCu).
Selenium EC no.: 231-957-4	<= 0.01 % (w/w)	>= 0 — <= 0.01 % (w/w)	Refers to % element. Se is assumed to be present in the oxide form.
Tellurium EC no.: 236-813-4	<= 0.019 % (w/w)	>= 0 — <= 0.019 % (w/w)	Refers to % element. Te is assumed to be present in the oxide form.
Aluminium EC no.: 231-072-3	<= 4.98 % (w/w)	>= 0 — <= 4.98 % (w/w)	Refers to % element. Al is generally present in the form of compounds such as silicates.
Chromium EC no.: 231-157-5	<= 0.286 % (w/w)	>= 0 — <= 0.286 % (w/w)	Refers to % element. Cr is assumed to be present in the oxide form (e.g. Cr2O3).
Manganese EC no.: 231-105-1	<= 0.533 % (w/w)	>= 0 — <= 0.533 % (w/w)	Refers to % element. Mg is generally present in the form of compounds such as silicates.
Antimony EC no.: 231-146-5	<= 0.079 % (w/w)	>= 0 — <= 0.079 % (w/w)	Refers to % element. Sb is generally present in the form of alloys (e.g. SnNiSbCu, Cu(Sn,Sb)).
Silicon EC no.: 231-130-8	<= 27.1 % (w/w)	>= 0 — <= 27.1 % (w/w)	Refers to % element. Si is generally present in the form of silicates (e.g. Ca2ZnSi2O7, CaSiO, Fe2SiO4).
Calcium EC no.: 231-179-5	<= 20.6 % (w/w)	>= 0 — <= 20.6 % (w/w)	Refers to % element. Ca is generally present in the form of silicates (e.g. CaSiO, Ca2ZnSi2O7).
Magnesium EC no.: 231-104-6	<= 1.56 % (w/w)	>= 0 — <= 1.56 % (w/w)	Refers to % element. Mg is generally present in the form of compounds such as silicates.
Potassium EC no.: 231-119-8	<= 0.53 % (w/w)	>= 0 — <= 0.53 % (w/w)	Refers to % element. K is assumed to be present in the form of compounds.
Sodium EC no.: 231-132-9	<= 1.15 % (w/w)	>= 0 — <= 1.15 % (w/w)	Refers to % element. Na is assumed to be present in the form of compounds.

Classification:

Dangerous Substances Directive 67/548/EEC - Not classified as hazardous.

Classification Labelling and Packaging Regulation EC 1272/2008 - Not classified as hazardous.

Industry classification proposals - Industry proposes to classify slags, lead smelting (no carcinogenic potential grade) to bring it into line with the latest scientific data and knowledge. The proposed classification will be:

not classified

Disclaimer