



Grade name: Orange lead
Substance: Orange lead (Lead Tetraoxide)
EC Number: 215-235-6
CAS Number: 1314-41-6
Substance Type: Mono-constituent substance
Degree of purity: 99.99 % (w/w)

Composition:

Constituents	Typical concentration	Concentration range	Remarks
Orange lead EC no.: 215-235-6	99.99 % (w/w)	> 99.7 — <= 100 % (w/w)	
Impurities	Typical concentration	Concentration range	Remarks
Other impurities not affecting classification	0.01 % (w/w)	0 — < 0.03 % (w/w)	

HARMONISED CLASSIFICATION IN ACCORDANCE WITH THE CLASSIFICATION LABELLING AND PACKAGING REGULATION EC (NO) 1272/2008

Acute Tox. 4 (oral); H302: Harmful if swallowed.

Acute Tox. 4 (inhalation); H332: Harmful if inhaled.

Repr. 1A; H360Df: May damage the unborn child. Suspected of damaging fertility.

STOT Rep. Exp. 2; H373: May cause damage to organs through prolonged or repeated exposure.

Aquatic Chronic 1 H410: Very toxic to aquatic life with long lasting effects.

Aquatic Acute Category 1 H400: Very toxic to aquatic life.

Specific Concentration Limits, M-Factors

SCL:

Repr. 2; H361f: C ≥ 2.5%

STOT RE 2; H373: C ≥ 0,5 %

INDUSTRY SELF-CLASSIFICATION*

Acute Tox. 4 (oral); H302: Harmful if swallowed.

Acute Tox. 4 (inhalation); H332: Harmful if inhaled.

Repro. 1A; H360Df: May damage the unborn child. Suspected of damaging fertility.

Repro. 1A; H362: May cause harm to breast-fed children.

Carc. 2; H351: Suspected of causing cancer.

STOT RE1; H372: Causes damage to organs through prolonged or repeated exposure.

Aquatic Chronic 1; H410: Very toxic to aquatic life with long lasting effects.

Aquatic Acute 1; H400: Very toxic to aquatic life.

Specific Concentration Limits, M-Factors

SCL:

Repr. 2; H361f: C ≥ 2.5%

STOT RE 1; H372: C ≥ 0.5%

M-Factor:

Aquatic Acute 1: 10

Aquatic Chronic 1: 1

CLP LABELLING

Signal word: Danger

Hazard pictograms:

GHS07: exclamation mark



GHS08: health hazard



GHS09: environment



Hazard statements:

H410	Very toxic to aquatic life with long lasting effects.
H360Df	May damage the unborn child. Suspected of damaging fertility.
H362	May cause harm to breast-fed children.
H332	Harmful if inhaled.
H302	Harmful if swallowed.
H372	Causes damage to central nervous system, blood and kidneys through prolonged or repeated exposure by inhalation or ingestion.
H351	Suspected of causing cancer.

Notes:

Industry self-classification explanation*

Orange lead (Lead Tetraoxide) is included in Regulation (EC) No 1272/2008 Annex VI Table 3.1 under the entry "lead compounds with the exception of those specified elsewhere in this Annex (Index No

082-001-00-6). As such this entry is legally binding and must there be cited on both the label and SDS. However, for hazard classes not covered by Annex I, the manufacturer or importer is required to self-classify the substance in accordance with the criteria described in the guidance to the DSD. Thus Carc. 2; H351: Suspected of causing cancer is added. In addition, in exceptional circumstances it is possible that potentially harmful levels of lead may be transmitted in breast milk of mothers exposed to lead to nursing infants. It is therefore proposed that an additional hazard statement "H362: May cause harm to breast-fed children" also be applied for Repro. 1A.

Endpoints marked by a * in Annex VI, the classification listed constitutes a minimum classification. Therefore based upon supporting data referenced in the REACH registration dossier STOT-RE 2 is changed to STOT-RE 1 as human evidence exists for repeat dose effects on CNS, kidney and haematological (blood) systems. It is proposed that the existing SCL of $\geq 0.5\%$ is maintained for STOT-RE1.

It should be noted that Industry believes that data are available that support removal of classification Acute Tox. 4 (oral); H302: Harmful if swallowed. Acute Tox. 4 (inhalation); H332: Harmful if inhaled. However, this can only be undertaken by making a proposal to ECHA to be discussed at RAC and the classification officially changed via an Adaption to Technical Progress.

M-Factors have been assigned for both acute and chronic effects to the aquatic environment based upon results of T/dp testing and use of the Unit World Model to evaluate removal of the Pb ion from the water column (as outlined in reports produced by HW Consult).

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