

## IMOA Molybdenum Consortium Substance Portfolio for REACH

Hazard Classification Table - Final

EC Substance Name	Synonyms	Formula	EINECS No.	CAS	Reach Substance Type	SIEF agreed Classification July 2010	Remarks	
1	Molybdenum Sulfide (MoS <sub>2</sub> ), roasted	Roasted Molybdenite Concentrate, tech oxide, moly oxide technical grade, molybdic oxide	MoO <sub>3</sub> is the formula of the main component. Complex compound sintered. See Substance Id document on Classification page of MoCon website.	289-178-0	86089-09-0	UVCB	Hazard classification & category code: Carcinogenicity Category 2 Hazard Statement: H351 = suspected of causing cancer via inhalation	Self-classification after EU REACH hazard assessment
2	Molybdenum Trioxide	Molybdenum Trioxide (pure)	MoO <sub>3</sub>	215-204-7	1313-27-5	Mono-Constituent Substance	Hazard classification & category code: Carc. 2; Eye Irrit.2; STOT SE3, Hazard Statements: H351 = suspected of causing cancer via inhalation, H319 = causes serious eye irritation, H335 = may cause respiratory irritation	Existing EU CLP classification, 1st ATP
3	Molybdenum	Molybdenum Metal	Mo	231-107-2	7439-98-7	Mono-Constituent Substance	No classification	Conclusion after EU REACH hazard assessment
4	Disodium Molybdate	Sodium Molybdate, SoMo	Na <sub>2</sub> MoO <sub>4</sub> Na <sub>2</sub> MoO <sub>4</sub> .2H <sub>2</sub> O	231-551-7 & 231-551-7	7631-95-0 & 10102-40-6	Mono-Constituent Substance	No classification	Conclusion after EU REACH hazard assessment
5	Diammonium Dimolybdate	Ammonium Dimolybdate, ADM	(NH <sub>4</sub> ) <sub>2</sub> Mo <sub>2</sub> O <sub>7</sub>	248-517-2	27546-07-2	Mono-Constituent Substance	No classification	Conclusion after EU REACH hazard assessment
6	Hexaammonium Heptamolybdate	Ammonium Heptamolybdate	(NH <sub>4</sub> ) <sub>6</sub> Mo <sub>7</sub> O <sub>24</sub> .XH <sub>2</sub> O (NH <sub>4</sub> ) <sub>6</sub> Mo <sub>7</sub> O <sub>24</sub> .4H <sub>2</sub> O	234-722-4 & 234-320-9	12027-67-7 & 12054-85-2	Mono-Constituent Substance	No classification	Conclusion after EU REACH hazard assessment
7	Tetraammonium Hexamolybdate	Ammonium Octamolybdate	(NH <sub>4</sub> ) <sub>4</sub> Mo <sub>6</sub> O <sub>26</sub> .5H <sub>2</sub> O	235-650-6	12411-64-2	Mono-Constituent Substance	No classification	Conclusion after EU REACH hazard assessment
8	Iron, compound with molybdenum (2:3)	Ferromolybdenum, FeMo		304-589-8	94277-04-0	Special Preparation	No classification	Conclusion after EU REACH hazard assessments of Mo and Fe
9	Slags, Ferromolybdenum	Ferromolybdenum Slags, FeMo Slags		282-217-2	84144-95-6	UVCB	No classification	Conclusion after EU REACH hazard assessment
10	Molybdenum Dioxide	Mo Dioxide	MoO <sub>2</sub>	242-637-9	18868-43-4	Mono-Constituent Substance	No classification	Conclusion after EU REACH hazard assessment
11	Calcium Molybdate	CaMo	CaMoO <sub>4</sub>	232-192-9	7789-82-4	Mono-Constituent Substance	No classification	Conclusion after EU REACH hazard assessment
12	Diiron Trimolybdenum Dodecaoxide	Iron Molybdate	Fe <sub>2</sub> Mo <sub>3</sub> O <sub>12</sub>	237-389-3	13769-81-8	Mono-Constituent Substance	No classification	REACH Hazard Assessment ongoing

**Note: For FeMo it is metallic iron and no metal to be registered, not FeMo itself.**

UVCB = Unknown or Variable Composition, Complex Reaction Products or Biological Materials)