Honeywell

PRODUCT STEWARDSHIP SUMMARY

Hydroxylamine sulfate solution

$(NH_3OH)_2SO_4$

Chemical Name:	Hydroxylamine sulfate solution
Chemical Category:	Salt
Synonyms:	Hydroxylammonium sulfate, Bis(hydroxylammonium) sulphate
CAS Number:	10039-54-0
CAS Name:	Hydroxylamine sulfate
EC (EINECS) Number:	233-118-8
Revision Date:	February 2019

- Hydroxylamine sulfate solution is used in organic synthesis to prepare various pesticides and pharmaceutical compounds. It is also used for textile finishing, as a photographic processing solution, for metal finishing, and as a vulcanization accelerator. In the nuclear industry it is used for separation of uranium and plutonium.

- Exposure occurs almost exclusively in the industrial setting. Solutions typically range from 25-30% concentration depending on the intended use. Good manufacturing and industrial hygiene practices should be followed to prevent or reduce exposure. Workplace exposure limits for hydroxylamine sulfate have been established for use in worksite safety programs. See the Safety Data Sheet (SDS) for additional information.

- Hydroxylamine sulfate solution is a colorless, odorless liquid. At high temperature (140 °C) it will undergo exothermic decomposition and may explode. It is corrosive to metals and should be kept separate from strong oxidizing agents. Additional hazardous decomposition products such as sulphur oxides, ammonia, and nitrogen oxides may form in the event of an explosion or fire.

- Hydroxylamine sulfate solution is harmful with ingestion and after absorption through the skin. Repeated exposure can damage red blood cells and reduce the ability of the blood to carry oxygen. It can cause allergic skin reactions and can cause significant eye irritation.

- Hydroxylamine sulfate solution is not known to cause reproductive or developmental harm.

- This substance has been found to be genotoxic in some *in vitro* assays but not in intact animal studies. It is considered to have no or low genotoxic potential.

- Hydroxylamine sulfate solution has not been evaluated for its ability to cause cancer in humans.

- Hydroxylamine sulfate solution is toxic to aquatic life. As hydroxylamine sulfate released into the environment will quickly transform into hydroxylamine and further breakdown products, there is almost no potential for bioaccumulation.

- Please **contact us** for more information. Additional information may also be found at the following links:

  Hydroxylamine Sulfate (ManaV)

  European Union Risk Assessment Report BIS(HYDROXYLAMMONIUM) SULPHATE

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