

PERSULFATES STORAGE ESSENTIALS

Persulfates can react dangerously when stored incorrectly. Safety depends on you, your team, and anyone handling persulfates to store the product properly. Understanding and practicing the following storage procedures will ensure the integrity of the product and the safety of people and property:

STORAGE CLIMATE

All persulfates should be stored in a cool, dry, well-ventilated space. For optimal stability, persulfates must be stored at temperatures below 77°F (25°C), and never at temperatures approaching 113°F (45°C). Be aware of moisture, too! Do not store persulfates anywhere with the potential for exposure to moisture.

Never store persulfates near heating vents, steam pipes, appliances, gas flames, welding sparks or any heat source. Moreover, make sure your persulfates aren't stored near incompatible materials such as metals, reducing agents, acids, bases, halides, salt solutions, organics, ammonia solutions, other oxidizers, and cleaners. Control of potential decomposition and firefighting efforts are enhanced if persulfates are stored within containment areas.

HOW TO STORE PERSULFATES

Persulfates can retain active oxygen content specification for approximately three years if stored under cool, dry conditions. However, if stored in a less-than-optimal environment, the product's flow characteristics can be affected in a matter of months and the material may become noticeably caked within a year. As a result, your storage inventory should be consumed on a First-In, First-Out basis.

COMPATIBLE STORAGE & TRANSPORT MATERIALS

The recommended materials for storage and conveyance equipment (tanks, pipelines, etc.) are 304 and 316 stainless steel. Other acceptable materials include polyvinyl chloride, polyethylene, Plexiglas® plastic (or other suitable generic), Teflon® resin (or other suitable generic), chemical stoneware, and glass. Evonik packages and ships crystalline persulfate chemicals in three different container types, per customer requests.

Preserving or extending the product's useful life – and protecting your investment – depends heavily on the right storage conditions. More importantly, avoiding potentially hazardous storage conditions will prevent the possible loss of life and property.



Refer to Safety Data Sheet for the relevant persulfate product for further information.

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