TECHNICAL SUMMARY

The U.S. Department of Homeland Security (DHS) published a new set of standards in June 2007 establishing risk-based performance standards for the security of the nation’s chemical facilities. These standards are designed to reduce the risk of release, theft, or sabotage of chemicals while being used or stored at any chemical facility, a requirement also potentially applicable to a remediation site. How these new standards affect your ability to purchase and store Carus Corporation’s permanganate products will be discussed in the following document. Please note that the following guidance is provided for information purposes only. You should consult your own advisors regarding the compliance of your facility or site with Chemical Facility Anti-Terrorism Standards (CFATS) rules and regulations.

This regulation affects CAIROX® potassium permanganate.

The U.S. DHS has released an interim final rule that is based on risk-based performance standards that imposes comprehensive federal security regulations for high-risk chemical facilities. The CFATS require regulated chemical facilities to -

- Submit a Top-Screen Survey (similar to an inventory form)
- Prepare Security Vulnerability Assessments (SVAs)
- Develop and implement Site Security Plans (SSPs)

It also allows certain covered chemical facilities, in specified circumstances, to submit Alternate Security Programs in lieu of a Security Vulnerability Assessment, Site Security Plan, or both.

Chemical Facility or facility shall mean any establishment that possesses or plans to possess, at any relevant point in time, a quantity of a chemical substance determined to be potentially dangerous or that meets other risk-related criteria identified by the DHS. Chemicals of interest are those chemicals listed in Appendix A at or above the STQ (Screening Threshold Quantity);

The following facilities are exempted:
1. Those regulated by the Maritime Transportation Security Act of 2002;
2. Public Water Systems, as defined by the Safe Drinking Water Act;
3. Treatment Works as defined by the Federal Water Pollution Control Act;
4. Any facility owned or operated by the Department of Defense or the Department of Energy;
5. Any facility subject to regulation by the Nuclear Regulatory Commission.

This regulation became effective June 8, 2007, except for Appendix A (PDF, 41 pages, the DHS Table of Chemicals of Interest) which became effective upon its publication in the Federal Register on November 20, 2007. With the publication of a final Appendix A, all provisions of 6 CFR Part 27, including § 27.210(a)(1)(i), are operative and in effect.

To determine the type and quantity of chemicals that will be subject to the preliminary screening process, DHS examined the following three security issues:

1. Release – quantities of toxic, flammable, or explosive chemicals that have the potential to create significant adverse consequences for human life or health if intentionally released or detonated;
2. Theft and diversion – chemicals that have the potential, if stolen or diverted, to be used or converted into weapons; and
3. Sabotage and contamination – chemicals that, if mixed with other readily available materials, have the potential to create significant adverse consequences for human life or health.

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The DHS identified these chemicals in the specific amounts for preliminary screening based on their potential to create significant human life or health consequences.

Appendix A lists approximately 300 chemicals of interest and their STQs. Appendix A includes common industrial chemicals such as chlorine, propane, and anhydrous ammonia as well as specialty chemicals such as arsine and phosphorus trichloride.

If a facility has on-site a chemical of interest at or above the STQ, then the facility must file a Top-Screen. The facility has to file the Top-Screen within 60 calendar days of coming into possession of a chemical of interest at or above its STQ. If your site or facility is determined to be a “high-risk facility,” then you will be notified by DHS in writing, and may be required to submit further documentation, such as an SVA and SSP. A site must also submit a Top-Screen survey within 60 calendar days of removing a chemical of interest.

What This Means When Purchasing and Storing Carus Corporation’s CAIROX potassium permanganate

Potassium permanganate is the only Carus product that is listed in Appendix A of CFATS (STQ = 400 pounds). The criterion under which potassium permanganate exceeds the standard is for Theft/Diversion-Explosives (EXP)/Improvised Explosive Device Precursors (IEDP): chemicals that could be stolen or diverted and used in explosives or IEDs. The STQ for potassium permanganate is set at 400 pounds. Therefore any chemical facility, except those five exempted categories, that intends to store potassium permanganate above 400 pounds must fill out the Top-Screen survey. This survey needs to be completed online at the DHS website, http://www.dhs.gov/register-access-csat. Once you have a login ID, submitting the Top-Screen survey with the presence of one chemical should require less than one hour to complete. The survey will ask basic questions such as: name, location, ownership and the chemical you are storing. For potassium permanganate it is under the Theft/Diversion-Explosives section (page 119 on the DHS Form 2007).

If you are considering using potassium permanganate at a site, you will need to complete the following:

1. Complete the Top-Screen Survey and document that your facility is in compliance with CFATS.

If you have any additional questions or concerns, please contact:

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(815) 224-6533
Alternatively, you can contact the DHS CFATS Helpline at (866) 323-2957 (Monday-Friday 7:00 a.m.- 7:00 p.m., Eastern Time).