

CARUS REMIEDIATION



CAS Registry No. 7722-64-7 EINECS No. 231-760-3
CAS Registry No. 7775-27-1 EINECS No. 231-892-1
CAS Registry No. 64742-51-4 EINECS No. 265-154-5

RemOx® SR+ ISCO Reagent
FACT SHEET

RemOx® SR+ ISCO reagent has been specifically manufactured for environmental applications such as remediation of soils and associated groundwater. This product can be used to degrade a variety of contaminants including chlorinated ethenes, chlorinated ethanes, chlorinated methanes, benzene, toluene, ethylbenzene, and xylene, methyl tertiary butyl ether, polyaromatic hydrocarbons, petroleum hydrocarbons, 1,4-dioxane and pesticides.

REMIEDIATION GRADE

SR+ is manufactured with potassium permanganate and sodium persulfate. Potassium permanganate and sodium persulfate meets specifications for assay.

CHEMICAL/PHYSICAL DATA

Assay	38% as KMnO_4
Assay	38% as $\text{Na}_2\text{S}_2\text{O}_8$
Formula	KMnO_4 ; $\text{Na}_2\text{S}_2\text{O}_8$; Paraffin wax
Form	Extruded solid of granular crystalline inside wax
Congealing point of wax is	54-57° C / 129-134° F
Paraffin wax will start to melt at	55° C / 132° F

DESCRIPTION

Dark purple potassium permanganate crystals and white crystals of sodium persulfate in a clear wax.

Standard size is 2.5 in (6.4 cm) diameter by 18 in (45.7 cm) long with 38:38:24% by weight KMnO_4 ; $\text{Na}_2\text{S}_2\text{O}_8$; Paraffin wax.

APPLICATIONS

SR+ was developed to provide a sustained release of potassium permanganate and sodium persulfate for soil and groundwater treatment. SR+ can be emplaced in the subsurface using direct push technology or suspended into existing wells. This technology can be used for source treatment as well as barrier applications.

SHIPPING CONTAINERS

2.5 in (6.4 cm) by 18 in (45.7 cm) cylinder - Qty 6/box Corrugated box that is 12.5 in (31.75 cm) by 10.625 in (26.987 cm) by 22 in (55.88 cm) with foam insert. Weight of box is 3.303 lbs (1.498 kg). Weight per cylinder is 5.75 lbs. (2.61 kg) or 38.088 lbs (17.276 kg) per box. Total weight of box and cylinders is 40.1 lbs (18.2 kg). (Domestic and international)

Orders can only be placed as full boxes in multiples of 6.

Packaging meets UN performance-oriented packaging requirements.

SHIPPING

SR+ is classified as an oxidizer in accordance with the classification requirements of the Hazardous Materials Transportation regulations. It is shipped under Interstate Commerce Commission's (ICC) Tariff 19.

Proper Shipping Name: Oxidizing solid, n.o.s. (potassium permanganate, sodium persulfate)

Hazard Class: Oxidizer

Identification Number: UN 1479

Label Requirements: Oxidizer

Packaging Requirements: 49 CFR Parts 100 to 185

Shipping Limitations:

Minimum quantities:

Rail car: See Tariff for destination

Truck: No minimum

HANDLING, STORAGE, AND INCOMPATIBILITY

Protect containers against physical damage. Eye protection should also be worn when handling SR+. Avoid breathing vapors or mists of the wax. Exposure or inhalation may cause irritation.

Store in a cool, clean, dry place away from point of sources of heat. Concrete floors are preferred to wooden decks. To clean up spills and leaks, follow the steps recommended in the SDS or eSDS. Be sure to use goggles, rubber gloves, and respirator when cleaning up a spill or leak.

Avoid contact with acids, halides, combustible materials, most metals and heavy metals, oxidizable materials, other oxidizers, reducing agents, cleaners, and organic or carbon containing compounds. Fires may be controlled and extinguished by using large quantities of water. Refer to the SDS or eSDS for more information.

SR+ is stable under normal conditions. Do not expose to sparks, heat, open flames, or hot surfaces. It is important that smoking is not allowed in proximity to SR+. Do not cut with any cutting tool which could produce friction (i.e. hand saws, circular saws, reciprocal saws, etc.) as it may cause ignition of the material.

CARUS CORPORATION

ONE COMPANY. ENDLESS SOLUTIONS

CORPORATE HEADQUARTERS | 315 Fifth Street, Peru IL 61354 | Tel + 1.815.223.1500 / 1-800-435-6856 | Fax + 1.815.224.6697 | Web: www.caruscorporation.com | E-Mail: salesmkt@caruscorporation.com
CARUS EUROPE | Parque Empresarial de ASIPO | C/Secundino Roces 3, Planta 1, Oficina 13-14 | 33428 Cayes, Llanera Spain | Tel +34.985.78.55.13 / Fax +34.985.78.55.10

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