

Material Safety Data Sheet	Karizab Company	
MSDS-C.S.515	No.57, Moalem st, Shariati ave, Tehran, IRAN	
Collection: Chemicals	Name: C.S.515	

1- Material specifications and its components

Brand	C.S.515
Synonymous names	Biocide for water treatment, effective for planktonic surface growth of bacteria, fungi
Chemical family	Iso-thiazoline compounds

2- General information (protection signs)

Toxic material	Flammable materials	stimulants	Corrosive material
	No	No	No
	Dangerous for the environment	Explosives	Oxidizing material
		No	No

3- Personal protection warnings

Eye contact	Material can cause irritation to eyes.
Skin contact	Prolonged or repeated skin contact can cause slight irritation.
Environmental effects	Being non-volatile and insoluble, there is no risk to the air and water compartment. Material expected stable in the ground. No biological degradation observed.

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4- First aid

	Eye contact	Immediately wash the infected eyes with lukewarm water for at least 15 minutes and keep the eyelids open. If you have a contact lens in your eye, remove it immediately and see a doctor.
	Skin contact	Wash the infected part of the skin with lukewarm water and soap for at least 15 minutes. Remove the clothes or shoes from the infected area and see a doctor.
	Swallow and eat	Never feed an unconscious person. Not specially dangerous and necessary in case of small amount. In case of stomachache, See a doctor immediately.
	Respiration	Move the person to the fresh air. If he has breathing problems, give him oxygen. If he stops breathing, give him artificial respiration. See a doctor immediately.
	medical information	Refer to other sources.

5- Extinguishing the fire

	Fire hazard	CO Nox
	The proper way to put out a fire	Water self-contained breathing apparatus and fully protective gear. Keep personnel removed from and upwind of fire. Keep unnecessary people away. CO2-dry chemical-water spray

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6- Personal care when working with this material

	Skin protection	Use resistant gloves, clothes and shoes resistant to chemicals.
	Eye protection	Use glasses for chemicals (with rims). In cases where it is possible to spray this material, use a face shield.
	Body protection	Gloves, clothes and shoes resistant to chemicals are required in working environments with this material. There must be a water shower and eyewash in the workplace.
	Respiratory protection	Use cartridge masks.

7- work environment care during the accidental release of the material

Protection of the work environment	Close the leak immediately or stop the leak. Do not allow unnecessary people to enter the leaking environment until the contamination is completely removed. Cleaning the contaminated environment should only be done by trained people. These people must use all the required personal safety equipment. The environment must be equipped with a ventilation system.
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8- Waste disposal method

Waste disposal of this material	If this material is spilled, collect it as much as possible and move it outside the work environment.
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9- Handling and storage

	Handling precautions	Always make sure that the environmental ventilation of the transport area is adequate. If possible, it should be transported in small packages in a well-ventilated environment. Safety equipment and water shower and eye wash and safety facilities and equipment should be available for emergency use.
	Storage conditions	Store in a dry, cool environment away from heat, water and direct sunlight and Other inflammable sources and oxidizing substances. Avoid freezing ($\leq 0^{\circ}\text{C}$) and dehydration ($\leq 40^{\circ}\text{C}$) The environment must be equipped with a proper ventilation system. Tanks should be completely closed.
	Suitable packaging	Karizab Company delivers C.S.515 materials to its customers in special 20-liter barrels. In case of emptying in other containers, use resistant plastic containers. Note that when containers are not in use, their lids should be closed.

10- Physical and chemical characteristics

Physical state	Liquid
Physical form	Semi thick liquid
Color	Colorless and transparent
Acidity- pH	3.1-4.5
Water solubility	Can be solved in any portion.

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11- Bio-ecological information

	General considerations	If left in the soil, it does not decompose biologically, but it does penetrate into the underground water.
	Behavior in the environment	It makes the environment unfavorable for animals.
	Degradability	No biodegradation observed.
	Other information	Refer to other sources.

12- Stability and interactions

Stability	This material is chemically stable
Avoidance environments	Drying ($\geq 40^{\circ}\text{C}$) and freezing ($\leq 0^{\circ}\text{C}$)

13- Toxicology

Skin poisoning	Essentially skin corrosivity
Eye poisoning	May cause slight transient eye irritation.
Rest of Information	Refer to other sources.

14- Transportation regulations

To move this product on the roads inside Iran, the regulations of the Ministry of Roads and Transport and the Traffic Police must be followed.

According to the Karizab company and the technical unit of the Karizab company, the information provided above is the most correct and complete information that is accessible, and Karizab company will not be responsible for any obligation, responsibility or damage due to the use of this information. Consumers should check the appropriateness of this information for their business purposes.

سی اس 515

ماده سی اس 515 ترکیبی از مواد آلی و معدنی است که جهت حذف میکروارگانیسم ها در آبهای آتش نشانی به کار می رود.

ویژگی ها:

حالت فیزیکی : مایع

پی.اچ : بین 3/1 – 4/5

رنگ : بی رنگ و شفاف

قابلیت انحلال در آب : به هر نسبتی در آب حل می شود.

نقطه اشتعال : خود به خودی ندارد.

مقدار مصرف: 100 میلیگرم در لیتر

نحوه مصرف : سی اس 515 به صورت محلول رقیق 5 درصد و با پمپ تزریق وارد آب می شود. برای این منظور می توانید از سیستم تزریق مواد شیمیایی شرکت کاریزاب استفاده نمایید.

برای رقیق کردن سی اس 515 از آب نرم (آب سختی گرفته شده) استفاده نمایید.

خدمات فنی و آزمایشگاهی : در صورت نیاز مصرف کنندگان این ماده از خدمات آزمایشگاهی شرکت کاریزاب استفاده خواهند نمود.

توصیه های ایمنی و بهداشتی :

- سی اس 515 خوراکی نیست.
- از تماس مواد سی اس 515 با پوست خودداری شود. در صورت تماس با پوست، موضع را با مقدار آب زیاد و صابون شستشو دهید.
- در صورت پاشیدن محلول سی اس 515 به داخل چشم، فوری چشم را با آب فراوان و تمیز به مدت 15 دقیقه شستشو دهید و به پزشک مراجعه نمایید.

بسته بندی : بشکه های پلاستیکی

ذخیره سازی : در بشکه های محتوی سی اس 515 را محکم بسته و در دمای بالاتر از 5 °C نگهداری شود.