

MATERIAL SAFETY DATA SHEET

CFC Selective Supplement

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Material Safety Data sheet

Product Name	CFC Selective Suppleme	ent	
			0098 21 66787291
Catalogue Number	iS47014	Technical Phone	09391003565
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Company Address	Zist Kavosh Iranian, No.	432, East Kokab Av,45 Me	etri Golshahr, Karaj, Iran.
	Section 2: Ha	zards Identification	
(SOR/2015-17) Serious eye damage (Ca Respiratory sensitization Skin sensitization (Categ Specific target organ tox Short-term (acute) aquat Long-term (chronic) aqu	n (Category 1), H334	l (Category 2), Gastrointes	
Pictogram			
C' 1 W/ 1		D	
		Danger	
Hazard Statements H317 May cause an aller H318 Causes serious eye H334 May cause allergy H373 May cause damag H410 Very toxic to aqua	e damage. or asthma symptoms or breat e to organs (Gastrointestinal t atic life with long lasting effect	hing difficulties if inhaled. ract) through prolonged or	repeated exposure if swallowed.
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H373 May cause damag H410 Very toxic to aqua Precautionary Stateme P260 Do not breathe dus P272 Contaminated wor P273 Avoid release to th P280 Wear protective gl P284 Wear respiratory p P302 + P352 IF ON SKI P304 + P340 IF INHAL P305 + P351 + P338 + P Remove contact lenses, i	e damage. or asthma symptoms or breat e to organs (Gastrointestinal t <u>titic life with long lasting effec</u> ints st. k clothing should not be allow the environment. oves/ eye protection/ face pro- protection. IN: Wash with plenty of water ED: Remove person to fresh a 2310 IF IN EYES: Rinse cauti if present and easy to do. Con	thing difficulties if inhaled. ract) through prolonged or ets. wed out of the workplace. tection. in and keep comfortable fo ously with water for severa tinue rinsing. Immediately	repeated exposure if swallowed.
Hazard Statements H317 May cause an aller H318 Causes serious eye H334 May cause allergy H373 May cause allergy H373 May cause damage H410 Very toxic to aqua Precautionary Stateme P260 Do not breathe dus P272 Contaminated wor P273 Avoid release to th P280 Wear protective gl P284 Wear respiratory p P302 + P352 IF ON SKI P304 + P340 IF INHAL P305 + P351 + P338 + F Remove contact lenses, i P333 + P313 If skin irrit P342 + P311 If experien	e damage. or asthma symptoms or breat e to organs (Gastrointestinal t <u>titic life with long lasting effec</u> ents st. k clothing should not be allow he environment. oves/ eye protection/ face pro- protection. IN: Wash with plenty of water ED: Remove person to fresh a 2310 IF IN EYES: Rinse cauti	hing difficulties if inhaled. ract) through prolonged or ets. ved out of the workplace. tection. : ir and keep comfortable fo ously with water for severa tinue rinsing. Immediately ical advice/ attention. all a POISON CENTER/ d	repeated exposure if swallowed. r breathing. l minutes. call a POISON CENTER/ doctor

none

Section 3: Composition / Information on Ingredients			
Mixture			
Component		Classification	Concentration*
Cefalotin Sodium			
CAS-No. EC-No.	58-71-9 200-394-6	Resp. Sens. 1; Skin Sens. 1; H334, H317	>= 30 - < 60 %
N-Cetyl-N'N'N-trimethylammonium bromide			
CAS-No. EC-No. Registration number	57-09-0 200-311-3 01-211998916035 XXXX	Acute Tox. 4; Skin Irrit. 2; Eye Dam. 1; STOT SE 3; STOT RE 2; Aquatic Acute 1; Aquatic Chronic 1; H302, H315, H318, H335, H373, H400, H410 M-Factor - Aquatic Acute: 100 - Aquatic Chronic: 10	>= 5 - < 10 %
Sodium fusidate			
CAS-No. EC-No.	751-94-0 212-030-3	Acute Tox. 4; H302	>= 5 - < 10 %

* Weight %

Section 4: First Aid Measures			
Description of first-aid measures			
General advice	First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.		
If inhaled	After inhalation: fresh air. Call in physician.		
In case of skin contact	In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.		
In case of eye contact	After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.		
If swallowed	After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.		
Most important symptoms and effects, both acute and delayed			
The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.			
Indication of any immediate medical attention and special treatment needed No data available			

Section 5: Fire Fighting Measures

Extinguishing media

Suitable extinguishing media

Water Foam Carbon dioxide (CO2) Dry powder

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

Special hazards arising from the substance or mixture

Carbon oxides

Nitrogen oxides (NOx)

Sulfur oxides Hydrogen bromide gas Sodium oxides Combustible. Fire may cause evolution of: nitrogen oxides, Sulfur oxides, hydrogen bromide Development of hazardous combustion gases or vapors possible in the event of fire.

Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully. Dispose of properly. Clean up affected area. Avoid generation of dusts.

Reference to other sections

For disposal see section 13.

Section 7: Handling and Storage

Precautions for safe handling

Advice on safe handling

Work under hood. Do not inhale substance/mixture.

Hygiene measures

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

For precautions see section 2.

Conditions for safe storage, including any incompatibilities

Storage conditions	Tightly closed. Dry. Keep locked up or in an area accessible only to qualified or authorized persons. Recommended storage temperature see product label.	
Storage class	Storage class (TRGS 510): 11: Combustible Solids	

Section 8: Exposure Controls / Personal Protection

Control parameters

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Exposure controls

Appropriate engineering controls

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles.

Skin protection

Full contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: > 480 min Material tested: KCL 741 Dermatril® L Splash contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: > 480 min Material tested: KCL 741 Dermatril® L **Body Protection** protective clothing **Respiratory protection**

Recommended Filter type: Filter type P2

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented. required when dusts are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure

Do not let product enter drains.

Section 9: Physical and Chemical Properties	
Physical state	solid
Color	white
Odor	odorless
Odor Threshold	Not applicable
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Flash point	No data available
Vapor pressure	No data available
Vapor density	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
pH	6.2 - 6.8 at 26.2 g/l at 20 °C (68 °F)
Viscosity	No data available
Water solubility	26.6 g/l at 20 °C (68 °F) - soluble
Partition coefficient: n-octanol/water	No data available

Partition coefficient: n-octanol/water

No data available

Density	No data available
Relative density	No data available
Explosive properties	Not classified as explosive.
Oxidizing properties	none
Other safety information	No data available

Section 10: Stability and Reactivity

Reactivity

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

Possibility of hazardous reactions
Violent reactions possible with:
Strong oxidizing agents
Strong acids
strong alkalis
Caution! In contact with nitrites, nitrates, nitrous acid possible liberation of nitrosamines!
Conditions to avoid
no information available
Incompatible materials
No data available

Hazardous decomposition products In the event of fire: see section 5

Section 11: Toxicological Information		
Information on toxicological effects		
Mixture		
Acute toxicity	Acute toxicity estimate Oral - > 2,000 mg/kg (Calculation method) Symptoms: Possible symptoms:, mucosal irritations Acute toxicity estimate Dermal - > 2,000 mg/kg (Calculation method)	
Skin corrosion/irritation	No data available	
Serious eye damage/eye irritation	Remarks: Mixture causes serious eye damage.	
Respiratory or skin sensitization	Mixture may cause allergy or asthma symptoms or breathing difficulties if inhaled. Mixture may cause an allergic skin reaction.	
Germ cell mutagenicity	No data available	
Carcinogenicity	No data available	
Reproductive toxicity	No data available	
Specific target organ toxicity - single exposure	No data available	
Specific target organ toxicity - repeated exposure	Mixture may cause damage to organs through prolonged or repeated exposure. - Gastrointestinal tract	

- Gastrointestinal tract

Aspiration hazard	No data available	
	Other dangerous properties can not be excluded.	
Handle in accorda	ance with good industrial hygiene and safety practice.	
Components		
Cefalotin sodium Acute toxicity	LD50 Oral - Rat - > 10,000 mg/kg Inhalation: No data available Dermal: No data available No data available	
Skin corrosion/irritation	Remarks: No data available	
Serious eye damage/eye irritation	Remarks: No data available	
Respiratory or skin sensitization	No data available	
Germ cell mutagenicity	No data available	
Carcinogenicity	No data available	
Reproductive toxicity	No data available	
Specific target organ toxicity - single	No data available	
exposure Specific target organ toxicity - repeated exposure	No data available	
Aspiration hazard	No data available	
N-Cetyl-N'N'N-trimethylammonium bromid	e	
Acute toxicity	LD50 Oral - Rat - female - 1,550 mg/kg (OECD Test Guideline 401) Remarks: (in analogy to similar products) The value is given in analogy to the following substances: Hexadecyltrimethylammonium chloride Inhalation: No data available Inhalation: Irritating to respiratory system. LD50 Dermal - Rabbit - male and female - 2,150 mg/kg Remarks: (in analogy to similar products) (ECHA) The value is given in analogy to the following substances: Hexadecyltrimethylammonium chloride No data available Skin - Rabbit	
Skin corrosion/irritation	Result: Irritating to skin 24 h	
Serious eye damage/eye irritation	Remarks: (ECHA) Eyes - Rabbit Result: Causes serious eye damage. (OECD Test Guideline 405) Remarks: (in analogy to similar products) Maximization Test - Guinea pig	
Respiratory or skin sensitization	Result: negative (OECD Test Guideline 406) Remarks: Aqueous solution	
Germ cell mutagenicity	No data available	
Carcinogenicity	No data available	
Reproductive toxicity	No data available	

Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard	 Inhalation - May cause respiratory irritation Respiratory system Oral - May cause damage to organs through prolonged or repeated exposure. - Gastrointestinal tract No data available
sodium fusidate	
Acute toxicity	LD50 Oral - Mouse - 1,500 mg/kg Inhalation: No data available Dermal: No data available No data available
Skin corrosion/irritation	Remarks: No data available
Serious eye damage/eye irritation	Remarks: No data available
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	No data available
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available

Section 12: Ecological Information		
Toxicity		
Mixture	No data available	
Persistence and degradability	No data available	
Bio accumulative potential	No data available	
Mobility in soil	No data available	
Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.	
Endocrine disrupting properties	No data available	
Other adverse effects	Discharge into the environment must be avoided.	
Components		
Cefalotin sodium	No data available	
N-Cetyl-N'N'N-trimethylammonium bromide		
Toxicity to fish	semi-static test LC50 - Danio rerio (zebra fish) - 0.2 mg/l – 96 h (OECD Test Guideline 203)	
Toxicity to daphnia and other aquatic invertebrates	semi-static test EC50 - Daphnia magna (Water flea) - 0.037 mg/l - 48 h (OECD Test Guideline 202)	
Toxicity to algae	static test ErC50 - Pseudokirchneriella subcapitata (green algae) - 0.00411 mg/l - 72 h (OECD Test Guideline 201) static test NOEC - Desmodesmus subspicatus (green algae) -	

		0.001 mg/l - 72 h
		(OECD Test Guideline 201)
Toxicit	Toxicity to bacteria	EC50 - activated sludge - 19 mg/l
	Toxicity to bacteria	Remarks: (ECHA)
	Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	NOEC - Daphnia magna (Water flea) - 0.023 mg/l - 21 d (OECD Test Guideline 211)
	Sodium fusidate	No data available

Section 13: Disposal Consideration

Waste treatment methods

Product

Offer surplus and non- recyclable solutions to a licensed company. Contact a licensed professional waste disposal service to dispose of this material

Contaminated packaging

Dispose of as unused product.

Section 14: Transport Information	
TDG	UN number: 3077 Class: 9 Packing group: III Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (NCetyl- N'N'N-trimethylammonium bromide) Labels: 9 ERG Code: 171 Marine pollutant: no
IMDG	UN number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (NCetyl- N'N'N-trimethylammonium bromide) Marine pollutant: yes Marine pollutant: no
ΙΑΤΑ	UN number: 3077 Class: 9 Packing group: III Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (N-Cetyl N'N'Ntrimethylammonium bromide)
Further information	EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods $> 5L$ for liquids or $> 5kg$ for solids.

Section 15: Regulatory Information

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

Section 16: Other Information

DISCLAIMER

For R&D use only. Not for drug, household or other uses.

WARRANTY

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. *ibresco* shall not be held liable for any damage resulting from handling or from contact with the above product.

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regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.