

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by  
Commission Regulation (EU) 2015/830 - **United Kingdom (UK)**

# SAFETY DATA SHEET

## Flocon® MC11

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

**Product name** : Flocon® MC11  
**Product code** : Not available.  
**Product description** : Cleaning/washing agents and additives  
**Product type** : solid  
**Other means of identification** : Flocon® MC11

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	
Cleaning	

  

Uses advised against	
<b>Reason</b>	: None identified.

#### 1.3 Details of the supplier of the safety data sheet

Italmatch Chemicals SpA

Via E. Vismara 114,  
Arese  
Italy  
MI-20044  
+39.02.93525.1  
Monday - Friday (9.00 - 17.00) /

**e-mail address of person responsible for this SDS** : msds@italmatch.com

#### National contact

Not available.

#### 1.4 Emergency telephone number

#### National advisory body/Poison Center

**Telephone number** : For Chemical Emergency Spill, Leak, Fire, Exposure or Accident  
Call CHEMTREC Day or Night: National contact +(44)-870-8200418 International Emergency Telephone number: +1-703-527-3887 (call collect)

## Supplier

**Telephone number** : +39.02.93525.1  
**Hours of operation** : Monday - Friday (9.00 - 17.00) /  
**Information limitations** : Safety Data Sheet

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Acute Tox. 4, H332  
Skin Irrit. 2, H315  
Eye Dam. 1, H318  
STOT SE 3, H335 (Respiratory tract irritation)  
STOT RE 2, H373

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

**Hazard pictograms** :



**Signal word** :

Danger

**Hazard statements** :

Harmful if inhaled.  
Causes serious eye damage.  
Causes skin irritation.  
May cause respiratory irritation.  
May cause damage to organs through prolonged or repeated exposure.

#### Precautionary statements

**General** :

Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

**Prevention** :

Do not breathe dust. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

**Response** :

IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Storage** :

Store locked up.

**Disposal** :

Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Supplemental label elements** : Not applicable.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Not applicable.

**Special packaging requirements**

**Containers to be fitted with child-resistant fastenings** : Not applicable.

**Tactile warning of danger** : Yes, applicable.

**2.3 Other hazards**

**Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII** : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**Other hazards which do not result in classification** : May form explosible dust-air mixture if dispersed.

**SECTION 3: Composition/information on ingredients**

**3.2 Mixtures** : Mixture

Product/ingredient name	Identifiers	%	<b>Regulation (EC) No. 1272/2008 [CLP]</b>	Type
trisodium orthophosphate	RRN : 01-2119489800-32-0000 EC : 231-509-8 CAS : 7601-54-9	30 - 32	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 (Respiratory tract irritation)	[1]
tetrasodium ethylene diamine tetraacetate	RRN : 01-2119486762-27-XXXX EC : 200-573-9 CAS : 64-02-8 Index : 607-428-00-2	30 - 32	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Dam. 1, H318 STOT RE 2, H373	[1]
citric acid	RRN : 01-2119457026-42-XXXX EC : 201-069-1 CAS : 77-92-9	5 - 7	Eye Irrit. 2, H319	[1]

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

See Section 16 for the full text of the H statements declared above.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

**Occupational exposure limits, if available, are listed in Section 8.**

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- Eye contact** : Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 15 minutes. Chemical burns must be treated promptly by a physician.
- Inhalation** : Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 15 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

### 4.2 Most important symptoms and effects, both acute and delayed

#### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following: pain, watering, redness
- Inhalation** : Adverse symptoms may include the following: respiratory tract irritation, coughing
- Skin contact** : Adverse symptoms may include the following: pain or irritation, redness, blistering may occur
- Ingestion** : Adverse symptoms may include the following: stomach pains

#### 4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

- Suitable extinguishing media** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam., Dry sand or other suitable absorbent.
- Unsuitable extinguishing media** : Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.

#### 5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture** : May form explosible dust-air mixture if dispersed.
- Hazardous combustion products** : Decomposition products may include the following materials: carbon dioxide, carbon monoxide

#### 5.3 Advice for firefighters

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
- Additional information** : Not applicable.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

- 6.2 Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### 6.3 Methods and materials for containment and cleaning up

- Small spill** : Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor.

- 6.4 Reference to other sections** : See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe dust. Do not ingest. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

### 7.3 Specific end use(s)

**Recommendations** : Not available.  
**Industrial sector specific solutions** : Not available.

## SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

### 8.1 Control parameters

#### Occupational exposure limits

No exposure limit value known.

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### DNELs/DMELs

Product/ingredient name	Type	Exposure	Value	Population	Effects
trisodium orthophosphate	DNEL	Long term Inhalation	3.04 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	4.07 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Inhalation	3.04 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	4.07 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Inhalation	3.04 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	4.07 mg/m <sup>3</sup>	Workers	Systemic
tetrasodium ethylene diamine tetraacetate	DNEL	Long term Oral	25 mg/kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	1.2 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Inhalation	0.6 mg/m <sup>3</sup>	General population	Local
	DNEL	Short term Inhalation	3 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Inhalation	1.5 mg/m <sup>3</sup>	Workers	Local



**PNECs**

Product/ingredient name	Type	Compartment Detail	Value	Method Detail
trisodium orthophosphate	PNEC	Fresh water	0.05 mg/l	Assessment Factors
	PNEC	Marine	0.005 mg/l	Assessment Factors
	PNEC	Intermittent release	0.5 mg/l	Assessment Factors
	PNEC	Sewage Treatment Plant	50 mg/l	Assessment Factors

**8.2 Exposure controls**

**Appropriate engineering controls** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

**Individual protection measures**

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

**Skin protection**

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be



necessary to reduce emissions to acceptable levels.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

Physical state	:	solid [Powder.]
Color	:	White.
Odor	:	Slight
Odor threshold	:	Not available.
pH	:	10.5 - 11.5 [Conc. (% w/w): 25 g/l ]
Melting point/freezing point	:	> 105 °C
Initial boiling point and boiling range	:	Not available.
Flash point	:	Not available.
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Not available.
Upper/lower flammability or explosive limits	:	<b>Lower:</b> Not available. <b>Upper:</b> Not available.
Vapor pressure	:	Not available.
Vapor density	:	Not available.
Relative density	:	Not available.
Solubility(ies)	:	Soluble in the following materials: water
Partition coefficient: n-octanol/water	:	Not available.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
Viscosity	:	<b>Dynamic:</b> Not available. <b>Kinematic:</b> Not available.
Explosive properties	:	Not applicable.
Oxidizing properties	:	Not applicable.

### 9.2 Other information

Solubility in water	:	Water-soluble liquid
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## SECTION 10: Stability and reactivity

10.1 Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	:	The product is stable.
10.3 Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	:	Avoid the creation of dust when handling and avoid all possible

sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Prevent dust accumulation.

**10.5 Incompatible materials** : Reactive or incompatible with the following materials: oxidising materials, strong alkalis, Aluminum.

**10.6 Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced., Decomposition products may include the following materials:, carbon dioxide, carbon monoxide

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
trisodium orthophosphate				
	LD50 Oral	Rat - Female	> 2,000 mg/kg 420 Acute Oral Toxicity - Fixed Dose Method	-
	LD50 Oral	Rat - Female	> 2,000 mg/kg 420 Acute Oral Toxicity - Fixed Dose Method	-
	LD50 Oral	Rat - Female	> 2,000 mg/kg 420 Acute Oral Toxicity - Fixed Dose Method	-
	LD50 Oral	Rat - Male/Female	4,260 mg/kg	-
	LD50 Oral	Rat - Male	5,000 mg/kg	-
	LD50 Oral	Rat - Female	> 2,000 mg/kg 425 Acute Oral Toxicity: Up-and-Down Procedure	-
	LD50 Oral	Rat - Male/Female	8,700 mg/kg	-
	LD50 Oral	Rat - Male	> 500 mg/kg	-
	LD50 Oral	Rat - Female	> 2,000 mg/kg 420 Acute Oral Toxicity - Fixed Dose Method	-
	LD50 Dermal	Rabbit - Male	> 300 mg/kg	-
	LD50 Dermal	Rat	> 2,000 mg/kg 402 Acute Dermal Toxicity	-
tetrasodium ethylene diamine tetraacetate				
	LD50 Oral	Rat	10,000 mg/kg	-
citric acid				
	LD50 Oral	Rat	11,700 mg/kg	-
	LD50 Oral	Rat	3,000 mg/kg	-

**Conclusion/Summary** : Harmful if inhaled.

**Acute toxicity estimates**

N/A

**Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
trisodium orthophosphate	Skin - Primary dermal irritation index (PDII)	Rabbit	0	48 hrs	96 hrs
	Skin - Primary dermal irritation index (PDII)	Rabbit	0	4 hrs	96 hrs
	Skin - Primary dermal irritation index (PDII) 404 Acute Dermal Irritation/Corrosion	Rabbit	0	4 - 24 hrs	-
	Skin - Primary dermal irritation index (PDII) 404 Acute Dermal Irritation/Corrosion	Rabbit	0	4 - 24 hrs	72 hrs
	Skin - Primary dermal irritation index (PDII)	Rabbit	6.9	24 hrs	7 d
	Eyes - Erythema/Eschar	Rabbit	> 1.6		14 d
	Eyes - Irritant	Rabbit	-		21 d
	Eyes - Iris lesion	Rabbit	79	24 hrs	7 d
tetrasodium ethylene diamine tetraacetate	Skin - Moderate irritant	Rabbit	-	24 hrs	-
	Eyes - Moderate irritant	Rabbit	-	24 hrs	-
citric acid	Skin - Moderate irritant	Rabbit	-		-
	Eyes - Severe irritant	Rabbit	-	24 hrs	-
	Skin - Mild irritant	Rabbit	-	24 hrs	-

**Conclusion/Summary**

**Skin** : Causes skin irritation.  
**Eyes** : Causes serious eye damage.  
**Respiratory** : No known significant effects or critical hazards.

**Sensitization**

Product/ingredient name	Route of exposure	Species	Result
trisodium orthophosphate	Skin	Mouse	Not sensitizing 429 Skin Sensitization: Local Lymph Node Assay

**Conclusion/Summary**

**Skin** : No known significant effects or critical hazards.  
**Respiratory** : No known significant effects or critical hazards.

**Mutagenicity**

**Conclusion/Summary** : No known significant effects or critical hazards.

**Carcinogenicity**

**Conclusion/Summary** : No known significant effects or critical hazards.

**Reproductive toxicity**

Product/ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
trisodium orthophosphate	Negative	-	-	Rat - Male/Female	Oral: 1000 mg/kg 422 Combined Repeated Dose Toxicity Study with the Reproduction /Developmental Toxicity Screening Test	-

**Conclusion/Summary** : No known significant effects or critical hazards.

**Teratogenicity**

Product/ingredient name	Result	Species	Dose	Exposure
trisodium orthophosphate	Negative - Oral 422 Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test	Rat	1,000 mg/kg	-
	Negative - Oral	Mouse	> 370 mg/kg	10 days
	Negative - Oral	Rat	> 410 mg/kg	10 days
	Negative - Oral	Mouse	> 320 mg/kg	10 days
	Negative - Oral	Rat	> 282 mg/kg	10 days

**Conclusion/Summary** : No known significant effects or critical hazards.

**Specific target organ toxicity (single exposure)**

Product/ingredient name	Category	Route of exposure	Target organs
trisodium orthophosphate	Category 3	-	Respiratory tract irritation

**Specific target organ toxicity (repeated exposure)**

Product/ingredient name	Category	Route of exposure	Target organs
tetrasodium ethylene diamine tetraacetate	Category 2	-	-

**Aspiration hazard**

Not available.

**Information on the likely routes of exposure** : Not available.

**Potential acute health effects**

**Eye contact** : Causes serious eye damage.

- Inhalation** : Harmful if inhaled. May cause respiratory irritation.
- Skin contact** : Causes skin irritation.
- Ingestion** : No known significant effects or critical hazards.

**Symptoms related to the physical, chemical and toxicological characteristics**

- Eye contact** : Adverse symptoms may include the following: pain, watering, redness
- Inhalation** : Adverse symptoms may include the following: respiratory tract irritation, coughing
- Skin contact** : Adverse symptoms may include the following: pain or irritation, redness, blistering may occur
- Ingestion** : Adverse symptoms may include the following: stomach pains

**Delayed and immediate effects and also chronic effects from short and long term exposure**

**Short term exposure**

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

**Long term exposure**

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

**Potential chronic health effects**

Product/ingredient name	Result	Species	Dose	Exposure
trisodium orthophosphate	NOAEL Oral	Dog - Male/Female	322.88 mg/kg	90 days
	LOAEL Oral	Rat - Male/Female	155 mg/kg	90 days
	NOAEL Oral	Rat - Male	> 288 mg/kg 407 Repeated Dose 28-day Oral Toxicity Study in Rodents	28 days
	NOAEL Oral	Rat - Male/Female	1,500 mg/kg	30 days
	NOAEL Oral	Rat - Male	2,436 mg/kg 407 Repeated Dose 28-day Oral Toxicity Study in Rodents	28 days
	NOAEL Oral	Dog - Male/Female	> 1,038.77 mg/kg	90 days
	NOAEL Oral	Dog - Male/Female	1,034 mg/kg 409 Repeated Dose 90-Day Oral Toxicity Study in Non-Rodents	26 weeks
	LOAEL Oral	Rat - Male/Female	172.66 mg/kg	90 days
	NOAEL Oral	Dog - Male/Female	323 mg/kg	26 weeks
	LOAEL Oral	Rat - Male/Female	182.57 mg/kg	90 days
	NOAEL Oral	Rat - Male/Female	1,000 mg/kg 422 Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test	4 weeks

- Conclusion/Summary** : No known significant effects or critical hazards.

- General** : May cause damage to organs through prolonged or repeated exposure. Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.
- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : No known significant effects or critical hazards.

**Other information** : Not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
trisodium orthophosphate			
	Acute LC50 > 100 mg/l Fresh water 203 Fish, Acute Toxicity Test	Rainbow trout,donaldson trout	96 h
	Acute LC50 151 mg/l Fresh water	Fish - Gambusia affinis	96 h
	Acute LC50 748,169.5 µg/l Fresh water	Fish - Clarias gariepinus	96 h
	Acute EC50 > 100 mg/l Fresh water 202 Daphnia sp. Acute Immobilization Test and Reproduction Test	Water flea	48 h
	Acute LC50 92 mg/l Fresh water	Aquatic crustacea.	24 h
	Acute LC50 98.34 mg/l Marine water	Aquatic crustacea.	96 h
	Acute LC50 < 15 mg/l Marine water	Larvae	72 h
	Acute EC50 > 100 mg/l Fresh water 201 Alga, Growth Inhibition Test	Algae.	72 h
	Acute EC50 > 1,000 mg/l Fresh water 209 Activated Sludge, Respiration Inhibition Test	Activated sludge	3 hrs
tetrasodium ethylene diamine tetraacetate			
	Acute LC50 486 mg/l Fresh water	Fish - Lepomis macrochirus	96 h
citric acid			
	Acute LC50 160,000 µg/l Marine water	Crustaceans - Carcinus maenas	48 h
Flocon® MC11			
<b>Remarks - Acute - Aquatic invertebrates.:</b>	No known significant effects or critical hazards.		

**Conclusion/Summary** : No known significant effects or critical hazards.

### 12.2 Persistence and degradability

**Conclusion/Summary** : Not available.

### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
tetrasodium ethylene diamine tetraacetate	5.01	1.80	
citric acid	-1.8	-	

### 12.4 Mobility in soil

- Soil/water partition coefficient (KOC)** : Not available.  
**Mobility** : Not available.

### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

- 12.6 Other adverse effects** : No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 13.1 Waste treatment methods

#### Product

- Methods of disposal** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
- Hazardous waste** : The classification of the product may meet the criteria for a hazardous waste.

#### Packaging

- Methods of disposal** : The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
- Special precautions** : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
<b>14.1 UN number</b>				



<b>14.2 UN proper shipping name</b>	Not regulated.	Not regulated.	Not regulated.	Not regulated.
<b>14.3 Transport hazard class(es)</b>	-	-		
<b>14.4 Packing group</b>				
<b>14.5. Environmental hazards</b>	No.	No.	No.	No.

**14.6 Special precautions for user** : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**14.7 Transport in bulk according to IMO instruments** : Not available.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU Regulation (EC) No. 1907/2006 (REACH)

##### Annex XIV - List of substances subject to authorization

###### Annex XIV

None of the components are listed.

##### Substances of very high concern

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Not applicable.

#### Other EU regulations

**Industrial emissions (integrated pollution prevention and control) - Water** : Not listed

##### Ozone depleting substances (1005/2009/EU)

None of the components are listed.

##### Prior Informed Consent (PIC) (649/2012/EU)

None of the components are listed.

##### Seveso Directive

This product is not controlled under the Seveso Directive.

#### National regulations

##### International regulations

##### Chemical Weapon Convention List Schedules I, II & III Chemicals

##### Chemical Weapons Convention List Schedule I Chemicals

None of the components are listed.

**Chemical Weapons Convention List Schedule II Chemicals**

None of the components are listed.

**Chemical Weapons Convention List Schedule III Chemicals**

None of the components are listed.

**Montreal Protocol**

None of the components are listed.

**Stockholm Convention on Persistent Organic Pollutants**

**Annex A - Elimination - Production**

None of the components are listed.

**Annex A - Elimination - Use**

None of the components are listed.

**Annex B - Restriction - Production**

None of the components are listed.

**Annex B - Restriction - Use**

None of the components are listed.

**Annex C - Unintentional - Production**

None of the components are listed.

**Rotterdam Convention on Prior Informed Consent (PIC)**

**Rotterdam Convention on Prior Informed Consent (PIC) - Industrial**

None of the components are listed.

**Rotterdam Convention on Prior Informed Consent (PIC) - Pesticide**

None of the components are listed.

**Rotterdam Convention on Prior Informed Consent (PIC) - Severely hazardous pesticide**

None of the components are listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals**

**Heavy metals - Annex 1**

None of the components are listed.

**POPs - Annex 1 - Production**

None of the components are listed.

**POPs - Annex 1 - Use**

None of the components are listed.

**POPs - Annex 2**

None of the components are listed.

**POPs - Annex 3**

None of the components are listed.

**Inventory list**

**Australia** : All components are listed or exempted.  
**Canada** : All components are listed or exempted.

- China** : All components are listed or exempted.
- Europe** : All components are listed or exempted.
- Japan** : **Japan inventory (ENCS)**: All components are listed or exempted.  
**Japan inventory (ISHL)**: Not determined.
- New Zealand** : All components are listed or exempted.
- Philippines** : All components are listed or exempted.
- Republic of Korea** : All components are listed or exempted.
- Taiwan** : All components are listed or exempted.
- Thailand** : All components are listed or exempted.
- Turkey** : All components are listed or exempted.
- United States** : All components are listed or exempted.
- Viet Nam** : All components are listed or exempted.

**15.2 Chemical Safety Assessment** : Complete.

## SECTION 16: Other information

- Abbreviations and acronyms** :
- ATE = Acute Toxicity Estimate
  - CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
  - DMEL = Derived Minimal Effect Level
  - DNEL = Derived No Effect Level
  - EUH statement = CLP-specific Hazard statement
  - N/A = Not available
  - PBT = Persistent, Bioaccumulative and Toxic
  - PNEC = Predicted No Effect Concentration
  - RRN = REACH Registration Number
  - SGG = Segregation Group
  - vPvB = Very Persistent and Very Bioaccumulative

### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Acute Tox. 4, H332	On basis of test data
Skin Irrit. 2, H315	Expert judgment
Eye Dam. 1, H318	Expert judgment
STOT SE 3, H335 (Respiratory tract irritation)	Expert judgment
STOT RE 2, H373	Expert judgment

### Full text of abbreviated H statements

H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.

### Full text of classifications [CLP/GHS]

Acute Tox. 4 (oral)	ACUTE TOXICITY (oral) - Category 4
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Eye Dam. 1	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
Acute Tox. 4 (inhalation)	ACUTE TOXICITY (inhalation) - Category 4
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) -

	Category 3
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

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**Notice to reader**

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**Annex to the extended Safety Data Sheet (eSDS)**

**Identification of the substance or mixture**

**Product definition** : Mixture  
**Product name** : Flocon® MC11