

## DOUCEUR & KLOR KIT (POUCH)

### 1 - IDENTIFICATION OF THE SUBSTANCE :

NAME **DOUCEUR & KLOR KIT (BAG)**

USES Sanitizer and algacide for the treatment of swimming pool water

MANUFACTURER **MAREVA PISCINES ET FILTRATION**  
Z.I. du bois de Leuze -13 310 SAINT MARTIN DE CRAU - France  
Tel : 33 - 04.90.47.47.90 - Fax : 33 - 04.90.47.95.07

e-mail of the person in charge for the Safety Data Sheet: tech@mareva.fr

Emergency dial number +33 (0)4.91.75.25.25 (Poison Control Center of Marseilles)

### 2 - HAZARDS IDENTIFICATION :

#### HAZARDS FOR HUMANS

Harmful if swallowed.  
In contact with acids, releases toxic gas  
Irritant to eyes and respiratory system (before dissolution)  
May help combustible materials burn

#### HAZARDS FOR THE ENVIRONMENT

Very toxic to aquatic organisms, may cause long-term adverse effects in the environment.

### 3 - COMPOSITION / INFORMATION ON COMPONENTS :

#### Substances used in the preparation :

*trichloro isocyanuric acid = 1,3,5-Trichloro-1,3,5-triazine-2,4,6(1H,3H,5H)-trione*

C.A.S. N° = 87-90-1 INDEX. N° = 613-031-00-5

*O, Xn, N, R8, R22, R31, R36/37, R50/53*

COMPOSITION 100% of trichloro isocyanuric acid

### 4 - FIRST AID MEASURES:

CONTACT WITH SKIN Wash immediately with soap and plenty of water.

CONTACT WITH EYES Rinse immediately with plenty of water for about 15 minutes. Seek medical advice.

INGESTION Do not induce vomiting. Give bread soaked in milk, then edible oil. Seek medical advice.

INHALATION Bring the person to fresh air. Seek medical advice in case of cough or respiratory disability symptoms.

### 5 - FIRE FIGHTING MEASURES :

Warning: oxidizing product

EXTINGUISHING MEANS Use large quantities of cold water on fire source(s), after isolated them.  
**WARNING: overall, do not use a powder extinguisher containing ammonium compounds**

EQUIPMENTS Protective clothes (with total face protection)  
Self-contained breathing device

## **6 - ACCIDENTAL RELEASE MEASURES :**

CLEANING METHOD	Pick up mechanically the blocks, the tablets and the induced dust. Store the blocks separately from the induced dust in waterproof tanks. Label well the tanks and send them back to the supplier Clean the contaminated area with plenty of water If cleaning waters are collected, they may be neutralized by a reducer (such as sodium thiosulphate) while checking the Redox potential and temperature.
PERSONAL PROTECTION	Gloves, mask, goggles

## **7 - HANDLING AND STORAGE :**

Pay much attention to humidity, sun exposure and temperature.

Keep away from flammable liquids, combustible products and any other oxidable material

## **8 - EXPOSURE CONTROLS - PERSONAL PROTECTION :**

EXPOSURE CONTROL	If necessary, use a respiratory protection device against dust and fumes. The roofs must be equipped with efficient ventilation systems.
PERSONAL PROTECTION	Glove, goggles, work clothes with long sleeves. Safety showers and eyewash next to work places.

## **9 - PHYSICAL AND CHEMICAL PROPERTIES:**

PHYSICAL STATE	: white granules
ODOUR	: chlorine
pH at 25°C (1% in the water)	: 2.8
FUSION POINT	: 225°C
DECOMPOSITION	: 225°C
FLASH POINT	: not concerned
FLAMMABILITY	: not concerned
EXPLOSIVITY	: not concerned
VOLUMIC MASS	: ca 1040 kg/m <sup>3</sup> (apparent density = 1.04)
SOLUBILITY IN THE WATER	: 1.28 g/ 100ml of water at 25°C.

## **10 - STABILITY AND REACTIVITY :**

Stable in normal conditions of humidity (high humidity levels must be avoided)

INCOMPATIBILITIES	the product is chemically incompatible with the following compounds - the acids (release of chlorine gas) <b>- the calcium hypochlorite (risk of explosion)</b> - the organic materials or the easily chlorinated or oxidized materials (risk of fire) - the ammoniac, the ammonium salts, the urea and all similar compounds which contain nitrogen (risk of formation of nitrogen trichloride, very explosive) - the oils or the greases (risk of decomposition with release of CO <sub>2</sub> or chlorine) - alkaline materials, such as Na <sub>2</sub> CO <sub>3</sub> , in case of humidity (risk of violent decomposition and fire) - the alcohols, ethers, biurea, and solvents such as toluene, xylenes, ...
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Products with dangerous decomposition: nitrogen trichloride, chlorine, cyanhydric acid

**11 - TOXICOLOGICAL INFORMATION :**

Acute oral toxicity                      LD 50 on male rat = 1.060 mg/kg  
LD 50 on female rat = 1.010 mg/kg  
No sign of subacute toxicity on the tests  
(oral / rat for 1 month, from 10 to 400 mg/kg)

**12 - ECOLOGICAL INFORMATION:**

Aquatic toxicity                              1.5 (48 hours - TML 5ppm - oryzias latipes)

Dangerous for the environment: very toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment

**13 - DISPOSAL INFORMATION :**

Dissolve while agitating the product to be disposed of in an alkaline solution (NaOH or lime)  
Neutralize this solution with a reducing agent (Na<sub>2</sub>SO<sub>3</sub>)  
Adjust pH with an acid (H<sub>2</sub>SO<sub>4</sub> or HCl)  
Dispose of the product according to the regulations in force.

Dispose of a solution of the product only if it does not contain any more chlorine

**14 - TRANSPORT INFORMATION :**

UN N°: 1479 : OXIDIZING SOLID, NOS (trichloroisocyanuric acid)

ROAD TRANSPORT                      Class = 5.1 - PG II - Danger label = 5.1 - Danger code n° = 50  
SEA TRANSPORT                              IMDG code = 5190 - Class 5.1 - PG = II  
Safety data sheet n° = 5.1 - 05 - GSMU table n° = 740

This product may, in some cases, be exempted (packaging in **Limited Quantities LQ11 = 500g**)

**15 - REGULATORY INFORMATION:** (conform to EC regulation n°1272/2008 (GHS))

Classification and labelling Acute toxicity (oral) cat4  
Serious eye lesions / eye irritation cat2  
Specific toxicity for some target organs -  
Single exposure, cat3: irritation of the respiratory system  
Chronical danger for the aquatic life cat1  
Oxidizing solid cat2



DANGER



WARNING



WARNING

Danger phrases

H272 May intensify fire; oxidiser  
H302 Harmful if swallowed  
H319 Causes serious eye irritation  
H335 May cause respiratory irritation  
H410 Very toxic to aquatic life with long lasting effects  
EUH031 Contact with acids liberates toxic gas

Caution advice - Prevention

P102 Keep out of reach of children  
P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray  
P271 Use only outdoors or in a well-ventilated area  
P273 Avoid release to the environment  
P280 Wear protective gloves/protective clothing/eye protection/face protection

Caution advice - Response

P301/310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
P304/340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

**15 - REGULATORY INFORMATION:** (conform to the orders of 20 april 1994 and/or 21 february 1990 and adaptations, dealing with classification and labelling of hazardous substances and preparations)

"Trichloroisocyanuric acid" - "EC labelling : 201-782-8"

"Warning! Do not use in combination with other products. May release dangerous gas (chlorine)."

Danger symbols

**O** - Oxidizing, **Xn** - Harmful and **N** - Dangerous for the environment



O - Comburant



Xn - Nocif



N - Dangereux pour l'environnement

R phrases

8 - Contact with combustible material may cause fire  
22 - Harmful if swallowed  
31 - Contact with acids liberates toxic gas  
36 / 37 - Irritating to eyes and respiratory system  
50 / 53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S phrases

2 - Keep out of the reach of children  
3 - Keep in a cool place  
8 - Keep container dry  
26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice  
29 - Do not empty into drains  
46 - If swallowed, seek medical advice immediately and show this container or label

**16 - ADDITIONAL INFORMATION :**

RECOMMENDATIONS      Keep an emergency aid plan ready.  
                                 Keep product away from incompatible materials.  
                                 Store in a cool, dry and well ventilated place.  
                                 Always store on pallets or shelves.  
                                 Clean equipments properly before changing product.  
                                 Empty hoppers at the end of each working day.  
                                 Wear suitable working clothes or equipments.  
                                 Keep lids clean and near drums in case of emergency.  
                                 Keep workshop management informed.  
                                 Keep product sweepings dry before neutralising them.

RESTRICTIONS      :      Store liquid products above this solid.  
                                 Do not leave organic materials (greases) accumulate on the ground.  
                                 Do not smoke in a premises used for storage or processing of  
                                 chlorinated products  
                                 Do not use common air suction system for incompatible products  
                                 Do not use gasoil or gasoline forklifts.  
                                 Do not use household products for workshop grounds cleaning.  
                                 Do not use original containers to collect sweepings.  
                                 Do not leave product to be wet.  
                                 Do not dispose of product in a common waste container.  
                                 Do not allow release of non neutralised product in sewer.  
                                 Do not use a powder extinguisher in case of fire.

Additional information

The information contained in this safety data sheet are based on our knowledge and mail legal and regulatory texts related to the product, and promulgated at the date of updating of this document. This safety data sheet was written and must be used only for this product. See instructions for use on labels or seek information from your professional retailer.

Combined Nomenclature (INTRASTAT) for customs statistics

**= 3808942090**