

KIT DOUCEUR & KLOR (TABLET)

1 - IDENTIFICATION OF THE SUBSTANCE :

NAME	KIT DOUCEUR & KLOR (TABLET)
USES	Swimming pool water disinfection
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
<u>e-mail of the person in charge for the Safety Data Sheet: tech@mareva.fr</u>	
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.
Irritating to eyes and respiratory system (before dissolution).

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 EC N° = 201-782-8

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

COMPOSITION	98-100%
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4 - FIRST AID MEASURES:

CONTACT WITH SKIN	Rinse immediately with plenty of water.
CONTACT WITH EYES	Rinse immediately with plenty of water for about 15 minutes, then seek medical advice.
INGESTION	Do not induce vomiting. Give bread soaked in milk, then edible oil. Seek medical advice. Never give anything to eat or drink to an unconscious victim.
INHALATION	Bring the person to fresh air. Seek medical advice in case of cough or respiratory disability symptoms.

5 - FIRE FIGHTING MEASURES :

EXTINGUISHING MEANS Use plenty of cold water on fire source(s), after isolating them

WARNING: 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 these tanks and send them back to the supplier.
Clen the contaminated area with plenty of water.
The product is hardly soluble in the water.
If cleaning waters are collected, they may be neutralized with a reducer (such as sodium thiosulphate), while controlling pH 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, combustibles and any other oxidable material.

8 - EXPOSURE CONTROLS - PERSONAL PROTECTION :

EXPOSURE CONTROL If necessary, use a respiratory protection device against dust or fumes.
The roofs must be equipped with efficient ventilation systems.

PERSONAL PROTECTION Gloves, goggles, work clothes with long sleeves.
Safety showers and eyewash next to work places.

9 - PHYSICAL AND CHEMICAL PROPERTIES:

PHYSICAL STATE : white tablets, from 200g to 600g.
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/m³ (apparent density = 1.04)
SOLUBILITY IN THE WATER : 1,28g / 100 ml of water at 25 °C

10 - STABILITY AND REACTIVITY :

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

INCOMPATIBILITIES The product is chemically incompatible with the following compounds:

- the acids (release of chlorine gas).
- **calcium hypochlorite (risk of explosion)**
- the organic materials or the easily chlorinated or oxidized materials (risk of fire)
- the ammoniac, ammonium salts, urea and all similar compounds which contain nitrogen (risk of formation of nitrogen trichloride, very explosive)
- the oils or greases (risk of decomposition with release of CO₂ or chlorine)
- the alkaline materials, such as Na₂CO₃, in the presence of humidity (risk of violent decomposition and fire)
- the alcohols, ether, biurea and solvents such as toluene, xylenes, ...)

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 on rat for 1 month, from 10 to 400 mg/kg)

12 - ECOLOGICAL INFORMATION:

Aquatic toxicity 1.5 (48 hours - TLM (ppm - oryzias latipes))

Hazardous for the environment: very toxic to aquatic organisms; may cause long-term negative effects in the aquatic environment.

13 - DISPOSAL INFORMATION :

Dissolve while agitating the product to be disposed on in an alkaline solution (NaOH or lime),
Neutralize this solution with a reducing agent (Na₂SO₃),
Adjust pH with an acid (H₂SO₄ or HCl),
Dispose of the chlorinated product according to regulations in force.

A solution of the product may be released only if it does not contain active chlorine anymore.

14 - TRANSPORT INFORMATION :

UN N°: 1479 OXIDIZING SOLID, N.O.S. (trichloroisocyanuric acid dry)

ROAD TRANSPORT Class = 5.1 - Packaging Group = II - Danger label = 5.1 - Danger code n° = 50
SEA TRANSPORT

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

SAFETY DATA SHEET:
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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, cat 3: irritation of the respiratory system
Chronic danger for the aquatic life
cat1



WARNING

Danger phrases

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
P261 Avoid breathing dust/fume/gas/mist/vapours/spray
P264 Wash hands thoroughly after handling
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

P301/312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
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)

"Warning! Do not use in combination with other products, dangerous gas (chlorine) may be released"
"Contains trichloroisocyanuric acid"

Danger symbols

Xn - Harmful and **N**- Hazardous for the environment



Xn - Nocif



N - Dangereux pour l'environnement

R phrases

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 :

Indications on the classification of the components used in the formulation

R8 : Contact with combustible material may cause fire.

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 work 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**