


MATERIAL SAFETY DATA SHEET

SPA CARTRIDGE CLEAN	Revision date: 13/06/2008 Replaces: 12/12/2007
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1. IDENTIFICATION OF THE PRODUCT:

Identification : liquid compound
Kind of product : special cleaner
Concentration in use : 5 - 10 % in water

2. HAZARDS IDENTIFICATION:

This is a hazardous preparation with following risks: Irritating to respiratory system and skin. Risk of serious damage to eyes.

3. COMPOSITION AND INFORMATION ON DANGEROUS COMPONENTS:

Dangerous components	%	Symbol	R-Phrases	CAS N°	EINECS N°
Hydroxyethylidene diphosphonic acid	25 - 50	Xi	37/38-41	2809-21-4	220-552-8

4. FIRST AID MEASURES:

Always ask medical advice as soon as possible should serious or continuous disturbances occur
Skin contact : remove contaminated clothing, rinse skin with plenty of water and immediately transport to hospital
Eye contact : rinse first with plenty of water and seek medical attention
Ingestion : have mouth rinsed and take to hospital immediately
Inhalation : in case of serious or continuous discomforts: remove to fresh air and seek medical attention

5. FIRE FIGHTING MEASURES :

Fire extinguishing agents : non flammable
Extinguishing agents to be avoided : none
Special preventive measures in case of fire : none

6. ACCIDENTAL RELEASE MEASURES:

Preventive measures : keep in a sealed container, out of reach of children

Personal safety measures : no eating, drinking or smoking during work

Environmental measures : do not allow to flow into sewers or open water

Measures in case of leakage : in case the undiluted product is discharged accidentally, neutralize to pH 7

7. HANDLING AND STORAGE:

Special preventive measures in handling and storing : keep in a sealed container in a closed, frost-free, ventilated room

Packing materials to be avoided : metals

Preventive measures : handle with care to avoid spillage

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

Inhalation protection : universal mask

Skin protection : gloves, chemical proof

Eye protection : goggles

Other protection : none

Follows a list of the hazardous elements mentioned sub 3. of which the TLV value is known :



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9. PHYSICAL AND CHEMICAL PROPERTIES:

Melting point/melting range, °C	:	0
Boiling point/Boiling range, °C	:	100
pH	:	0,5
pH 1% diluted in water	:	/
Vapour pressure/20°C, Pa	:	2332
Relative density/20°C	:	1,200
Physical state/20°C	:	liquid
Flash point, °C	:	/
Ignition point, °C	:	/
Solubility in water	:	completely soluble
Odour	:	odourless
Dynamic viscosity, mPa.s/20°C	:	1
Kinematic viscosity, mm²/s/20°C	:	1
Volatile organic component (VOC), %	:	0
Volatile organic component (VOC), g/l	:	0

10. STABILITY AND REACTIVITY:

Dangerous reactions with : /

Circumstances to be avoided : avoid spillage

11. TOXICOLOGICAL INFORMATION:

About the substance itself : not applicable under actual EEC guidelines for preparations

General information : see ingredients under section 3

Calculated acute toxicity, LD50 Oral Rat: 3243 mg/kg

12. ENVIRONMENTAL INFORMATION:

About the substance itself : not applicable under actual EEC guidelines for preparations

General information : see ingredients under section 3

Biological degradability : The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

Water hazard class, WGK: 2

13. DISPOSAL CONSIDERATIONS:

The product may be discharged in the indicated percentages of utilization, provided it is neutralised to pH 7.

Possible restrictive regulations by local authority should always be adhered to.

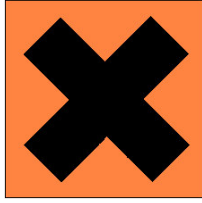
14. TRANSPORT INFORMATION:

Class & number	:	8, III
Identification number of the hazard	:	80
Identification number of the substance	:	UN 3264, Corrosive liquid, acidic, inorganic, n.o.s., mixture with phosphonic acid, 8, III, (E)
Labels	:	8



15. REGULATORY INFORMATION:

Labels:



Irritant

Risk phrases

R37/38 Irritating to respiratory system and skin.
R41 Risk of serious damage to eyes.

Safety phrases

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S2 Keep out of reach of children.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S39 Wear eye/face protection.
S46 If swallowed, seek medical advice immediately and show this container or label.

Contains

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16. OTHER INFORMATION:

R-Phrases, mentioned in point 3, not of application on the preparation.

Risks connected to the preparation and its hazardous components : R37 Irritating to respiratory system. R38 Irritating to skin.
R41 Risk of serious damage to eyes.

Reason of revision, changes of following items: 9, 16

Composition by regulation (EC) No 648/2004: Phosphonates 15 < 30%

This safety information sheet has been compiled in accordance with annex II of the REACH-directive EG 1907/2006. Classification has been calculated in accordance with the European directive 67/548/EWG, 1999/45/EC and regulation 1272/2008 with their respective amendments. It has been compiled with the utmost care, we cannot, however, accept responsibility for damage, of any kind, that may be caused by using these data or the product concerned. It is the responsibility of the user to take the necessary measures in order to comply with the local laws and regulations. To use this preparation for an experiment or a new application, the user must carry out a material suitability and safety study himself.

MSDS reference number : ECM-4565,1-E