

**AQUAQUICK 2000** is a revolutionary water based, biological cleanser which is very suitable to eliminate and biodegrade all animal, vegetable, synthetic and mineral oils, fats and greases in an ecological way. It contains special nutrients which are capable of stimulating the biodegradation of dissolved hydrocarbon combinations into harmless components, namely: Carbon Dioxide (CO2), Water (H2O) and Biomass (oxidation).

**AQUAQUICK 2000 SP** is a fast splitting cleanser with the same friendly benefits and is approved to be used in combination with oil/grease separators. Can also be used as a multi-functional cleaner.

**AQUAQUICK** products are thanks to the unique composition harmless in use and will not cause any particular health risks. AQUAQUICK 2000 and AQUAQUICK 2000 SP will not affect or damage plastics, metals, coatings, paints, rubber, etc.

**AQUAQUICK** products always have to be diluted with large quantities of water before use (1:50 - 1:800) and work with a particular high efficiency which results in a considerable saving of time and costs.





























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AQUAQUICK 2000

> NE WILL CLEAN E FUTUR

2000 SP

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UT, Enschede, The Netherlands health AQUAQUICK 2000 is very well biodegradable and is fully degraded in the wastewater

facility. Due to the absence of chlorine the product does not give any toxic products when used as a detergent or with biodegration. Aquaquick 2000 does not cause any special

risks when used. The product easily removes hydrocarbons in case of soil cleaning.



**TNO University Delft,** 

**The Netherlands** 

AQUAQUICK 2000/SP is not hazardous to aquatic organisms when diluted 50:1. All components are readily biodegradable and completely mineralized in aquatic systems. No long term adverse effects on the aquatic ecosystem may be expected.



**AQUAQUICK 2000 SP** has shown to be non-sensitizing, and not irritating or corrosive to human skin or eyes.

TNO University Zeist, The Netherlands



AQUAQUICK 2000 complies with the Dutch regulations and can be used for

applications in the food industry.

Ministry of Health ,

The Netherlands



AQUAQUICK 2000 causes no adverse effects on paints or coatings.

**Dept. of Defense,** Has proven to be very suitable for the removal of hydrocarbons and makes a stable emulsion.

The Netherlands

Natostock No. 6850 17 106 2499, 6850 17 113 8832, 4210 17 114 0278



AQUAQUICK 2000can be drained away into the waste-water sewer after mechanicalWater Board Districts,removal of the main part of the hydrocarbon pollutions.The NetherlandsThe dissolved hydrocarbons may not be polluted with black list substances.



 AQUAQUICK 2000/SP has been evaluated and found to meet the guidelines as stated in

 Directorate General for
 MARPOL Annex II, Tankcleaning (MEPC.2 / CIRC.20 ANNEX 10) IMO, ESPH working group.

 Shipping and Maritime
 2014-12-17

 affairs, London UK (IMO)
 www.imo.org
 Cargo Tank Cleaning Additives, page 66



NS, Dutch Railways

Utrecht, Netherlands

AQUAQUICK 2000 is a rather universal applicable cleaning agent, which is suitable for cleaning of metals and painted surfaces, without eroding those materials.
No special safety precautions when using the product.
This product can be used with high pressure equipment.



AQUAQUICK 2000/SP Certificate of Product Design Assessment.



Shipping, London UK

(Type Approval for Shipping)



**AQUAQUICK 2000** This product is found innocuous for the marine environment in the strict sense of article 49B, sub. 1, of the Mining regulation Continental Shelf.

State Supervision of Mines, the Netherlands



AQUAQUICK 2000/SP Meets the German regulations of requirements for dangerous

TUV Research Institute,	substances and preparations: (1) Conform to all requirements for environmental directive
Hannover, Germany	guidelines. (2) Approval for the use in the Automotive and Metalworking Industry.
	(3) Conform to all requirements for fast splitting cleansers and measures for biodegradability and bioaccumulation.

Approved for oil and grease separators (Austrian Standard B 5105)



AQUAQUICK 2000 SP meets the environmental guidelines and standards of Germany.

Dekra Umwelt Gmbh

**Stuttgart, Germany**Transport classification: Not a dangerous good.



**AQUAQUICK 2000** there are no objections to the use as a detergent for road surfaces polluted with oil from a hygienic point of view.

Gelsenkirchen,

**Institute of Hygiene** 

Germany

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**AQUAQUICK 2000** meets the requirements in accordance with "Method for the removal of oil traces on road surfaces, with the exception of oil absorbents".

Material Research

State Laboratory for

Dortmund, Germany



Chem. Labor

**AQUAQUICK 2000** is very well biodegradable and causes no adverse effect for a wastewater facility.

WEßLING, Germany



Malaysia

AQUAQUICK 2000 In accordance to the International maritime organization (IMO) product classification, chemicals with LC50 and EC50 values ≥ 1000 mgL-1 are considered non-toxic to the aquatic environment. The experimental data showed that diluted Aquaquick 2000 can be classified as a non-toxic chemical.

(Oil and grease contents in wastewater were reduced up to 94 % in 21 days)



Germany

AQUAQUICK 2000 V-93 this product stimulates the growth of bacteria and micro organisms, and as such accelerates the break down of hydrocarbons in surface water and polluted soil. Research conclusion on the biological breakdown of hydrocarbons: 86-96 % within 35 days.

Micro Biological Lab.

J. Balfanz, Munster



**AQUAQUICK 2000** was found to comply with the specifications of dispersant, listed in the first schedule of the prevention of pollution of the sea. (Regulations 1999)

Laboraty Services Pte.Ltd.

**Mechem Technical &** 

Singapore



Singapore

AQUAQUICK 2000 approval for Singapore Green Label (User ID : SGLS 036 - 001)



**AQUAQUICK 2000** can be legally and safely used to control oil spills on the ocean.

Migas Lab.

The product has to be diluted with water 1:50 and is advised to the users to conduct their

## Indonesia

own test concerning effectiveness and biodegradability. (2132/38.03/DMT/2003)



London Underground United Kingdom AQUAQUICK 2000 acceptable for use within London Underground Ltd., there will be no objection to its use regarding health and safety. (Report No. C7638 Febr. 09, 1996)





**AQUAQUICK 2000/SP** no adverse effect on Simson Floor seal PS and Saba Sealer MB/MBT (special sealers for gas stations and liquid tight industrial floors)



**AQUAQUICK 2000/SP** is approved for the use in food plants on floors, walls, and food areas when food is not being handled or prepared.

Canada

Sealers

Iceland

AQUAQUICK 2000 approval for the food industry in Iceland.



**AQUAQUICK 2000** approval for all applications in Poland.

Poland



AQUAQUICK 2000/SP/V93/B40 approval for all applications in Germany.

Germany



AQUAQUICK 2000 approval for all applications in Thailand and Malaysia.

Thailand / Malaysia



AQUAQUICK 2000 approval for all applications in Peru.

Peru



Philippine coast Guard: Accreditation of oil spill dispersant (2013).



Approval for all Libyan Oil Companies to use AQUAQUICK 2000 (2016).

## RESEARCH FIGURES **AQUAQUICK 2000** PRODUCTS

## TOXICITY AND BIODEGRATION

Effect on a crustacean	: LC50 (48 h, Acartia Tonsa)	=	13 mg.l-ı (concentrated)	
	: LC50 (48 h, Acartia Tonsa)	=	650 mg.I-1 (diluted 50 :1)	
Effect on algae growth	: ErC50 (72 h. Skelet. Costatum)	=	6.2 mg I-I (concentrated)	
	: ErC50 (72 h. Skelet. Costatum)	=	310 mg I-1 (diluted 50:1)	
Acute toxicity test with fish	: LC50 (96 h. Cyprinus Carpio)	=	1473 mg I-I (diluted 50:1)	
Acute immobilization Daphnia	: EC50 (48 h. Moina Macrocopa)	=	1075 mg I-I (diluted 50 :1)	
Biodegradability	: In natural seawater	=	66 % within 28 days (closed bottle)	
			BOD 0.18 ~ COD 0.27 mg O2. mg-l	
	: Sewer and waterpurificationpla	nt=	100 % within 60 minutes.	
Bioaccumulation	: Basic components	=	Log Pow between 3.5 and 5.1	
Product classification (EEC)	: Concentrated	=	R51 – Toxic to aquatic organisms	
	: Diluted 20:1	=	Not hazardous to aquatic organisms	
Detergents used in Aquaquick	: Primary degradation	=	96-100 % in 21 days	
	: Mineralization	=	80 - 98 % in 28 days	
Animal toxicity	: LD50 (oral rat	=	5 g/kg. (Aquaquick 2000 / E)	
		=	12 g/kg. (Aquaquick 2000 SP)	
Conclusion TNO Research NL	: As evidence exists that all comp	oner	nts included in Aquaquick 2000 & SP are	
	readily biodegradable and completely mineralized in aquatic systems, no long			
	term adverse effects for the aquatic ecosystems may be expected.			
	: Aquaquick 2000 & SP fulfils the European environmental criteria (EC 648/2004)			
Mechem Laboratory, Singapore				
1999)	in the first schedule of	ine p	prevention of pollution of the sea (regulations	

**Department of Energy, Indonesia** : Aquaquick 2000 has been approved to be used to treat oil spills on land and sea.

## DERMATOLOGY ~ TNO Research

Acute dermal irritation/corrosion	: Albino Rabbits		= not irritating or corrosive to (human) skin		
Acute eye irritation/corrosion	: Albino Rabbits		= not irritating or corrosive to (human) eyes (diluted 50:1)		
Sensitization/maximization test	: Guinea Pigs		= not sensitizing		
ANALYSES DEKRA GERMANY					
VOC	: GC MS	Scan	< 0,01 %		
EOX	: DIN 38	8 409/14	< 0,01 %		
ΝΤΑ	: DIN 38	3 413/3	< 0,001 %		
EDTA	: DIN 38	3 413/3	< 0,001 %		
PHOSPHOR	: DIN 38	3 405/11	< 0,01 %		
RESEARCH REPORTS					
TNO, The Netherlands :		MR-R 94/064a	~ 1994 AQUAQUICK 2000		
	V 96.382~ 1996		AQUAQUICK 2000 SP		
		V 96.407	~ 1996 DERMATOLOGIC REPORT		
	V 96.408~ 1996 DERMATOLOGIC REPORT				
	V 96.409~ 1996 DERMATOLOGIC REPORT				
		V 97.1050	~ 1998 AQUAQUICK 2000 (DUTCH)		
		V 4080/01	~ 2002 AQUAQUICK 2000		
		V 6516/03	~ 2007 AQUAQUICK 2000		
		V 6516/04	~ 2007 AQUAQUICK 2000 SP		

	V 6516/04	~ 2007 AQUAQUICK 2000 SP	
SIRIM, Malaysia:	9217-97-049	~ 1997 AQUAQUICK 2000	
University of Twente, The Netherlands :	Environmental F	Reports ~ 1989 - 1990 AQUAQUICK 2000	
Dekra Umwelt, Germany :	70311/96	~ 1996 AQUAQUICK 2000	
Mechem Laboratory, Singapore :	M 34012-03101	4 ~ 2003 AQUAQUICK 2000	
Department of Energy, Indonesia :	132/28.02/DMT	~ 2005 AQUAQUICK 2000	A

