



SAVAN CHEMIE

DIELECTRIC SAVAN 400

Application

Savan 400 is a special product for use in start hole drilling EDM machines. The product was developed by SAVAN CHEMIE explicitly for this purpose.

Effectiveness

Tests have shown that the maximum addition of SAVAN 400 produces the following results under maximum operating conditions:

- Superior dimensional accuracy
- Minimized burr formation
- Low wear

Properties

The Product is non-toxic and contains no nitrites, aldehydes, phenols or similar substances. It is dermatological unobjectionable and biodegradable.

USE

SAVAN 400 is supplied in concentrate form. It must be thinned in a ratio of 1:10 (1 part SAVAN 400 and 9 parts dematerialized water). The fresh solution has a concentration of approx. 1.5%. This can be measured with a handrefraktometer. It is recommendable to periodically measure the concentration of the solution because water evaporates faster. Top up with dematerialized water when needed.

The optimum concentration is between 1% to 2%.

Physical Data

Appearance	: light brown
pH-value, 3% solution	: 8.5
Density at 20 °C, g/ml	: 1.050
Corrosion protection	: Din 51360/1 fulfills
Biodegradability	: >90%
Ignition and flash point	: not measurable
Toxicity in water	: non-toxic BAG TNr. 611500
Solubility in water	: any ratio, self-mixing

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Date : 01.01.2002

1. IDENTIFICATION OF SUBSTANCE/COMPANY

Commercial name : Dielectric SAVAN 400

Name/Company address : SAVAN CHEMIE
Grundstrasse 10a Tel. +411 926 22 60
CH-8712 Stäfa/Zürich Fax. +411 926 22 91

Product information : development

Emergency telephone number : R+D Department
Tel. +411 926 22 60

2. COMPOSITION/COMPONENT DATA

Chemical composition : Alkanolamin salt of a acylamidocarbon acid.

3. IDENTIFICATION OF HAZARDS

Main hazards : None

Environmental hazards : None

Classification : The classifying system corresponds to the current EG-lists for substances and the current calculation basis for preparations.

4. FIRST AID

General information : —

Inhalation : —

Contact with the skin : Immediately rinse off with soap and water. Consult a doctor in case of skin irritation.

Contact with the eyes : Immediately rinse with water and consult a doctor.

Ingestion : Consult a doctor.

5. FIRE FIGHTING PROCEDURES

Provisions : water spray, powder, foam, CO₂ extinguisher.

Not recommended : None

Protection for fire-fighters : —

6. MEASURES TO BE TAKEN IN THE EVENT OF ACCIDENTAL DISPERSION

Individual precautions : —

Environmental protection : Do not let into sewage system or waters.

Methods of cleaning : Use absorbent material (sand, wood shavings). After cleaning, rinse with water.

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7. HANDLING AND STORAGE

Handling : ---

Information for safe handling : Product should be stored at room temperature.
Not below +5°C.

8. MONITOR INDIVIDUAL EXPOSURE/PROTECTION

Respiration protection : ---

Protection for the hands : use gloves

Protection for the eyes : use goggles

Body protection : ---

Hygiene measures : Avoid contact with the eyes.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid
Colour : yellowish
Odor : lightly product specific

	value	unit	method
Characteristics			
Boiling point :	100	°C	DIN 53171
Melting point :	-20	°C	DIN/ISO 3016
Flash point :	not measurable		
Ignition point :	not measurable		
Danger of explosion :	---		
Density :	20°C, g/ml	1.050	g/cm ³ DIN
Solubility in Water :	Soluble in any proportion.		
pH-Value :	(10g/l)	8.5	DIN

10. STABILITY AND REACTIVITY

Dangerous reactions : Thermal decomposition > 200°C.

Substance to be avoided : ---

Hazardous decomposition products : Thermal decomposition will release hazardous gases : NO_x.

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11. TOXICOLOGICAL DATA

Acute oral toxicity (LD₅₀) : >2000 mg/kg

species : rat
method : OECD 401

Irritation of the skin : not irritating

species : rabbit
method : OECD 404

Irritation of the eyes : weak irritation

species : rabbit eye
method : OECD 405

12. ECOLOGICAL DATA

Information about elimination :

Biological decomposition : > 90 %

Duration of experiment : 7 days

Method : OECD 302B

13. CONSIDERATIONS RELATING TO ELIMINATION

Observing the local official regulations, eliminate by toxic waste burning or chemical/physical treatment facility.

Waste Number for unused product : 59301 (Germany)

14. DATA RELATING TO TRANSPORT

This product is not hazardous according to the transport regulations.

15. REGULATORY DATA

Characterized after EWG-guidelines

Hazardous components for labeling : Characterized according to GefStoff/EG, not due to be characterized.

Phrases-R : Ecotoxicological effect
Fishtoxicity (LC₅₀) 1000 mg/l
exposition period : 96 h
species : "Zebrabärbling"
method : OECD 203

Bacteria toxicity (EC₅₀) 1000 mg/l

Phrases-S : organic carbon (DOC) 491 mgC/g
chemical oxygen need (CSB) 1577 mgO₂/g

Water hazards classifications : WGK = 0

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16. OTHER INFORMATION

Toxicity class : non toxic
BAG T NR. 611500

The user's attention is drawn to the statutory obligations incumbent upon him, and which incurs his liability.