

SDS - Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

1 Identification of the substance / preparation and company / undertaking

Product name SANBIO® SALVUS

Chemical product name

Synonyms Supplier Potassium diformate, Silicon dioxide, Citric acid

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Recommended use Preservative, feed additive

2 Hazards identification

The preparation is classified as dangerous according to directive 67/548/EEC and its amendments.

Classification Xi, irritating

Human health hazards Risk for serious damage to eyes.

Environmental hazards Based on the available data of this product no hazardous properties

are known.

Physical / chemical hazards Based on the available data of this product no hazardous properties

are known

3 Composition / information on ingredients

Substance / preparation: preparation

Chemical name	CAS No.	%	EC no. *	Classification
Potassium diformate	20642-05-1	93-98	243-934-6	Xi, R41
See section 16 for the full text of the R-				
phrases declared above.				
Silicon dioxide	7631-86-9	1-3	231-545-4	
See section 16 for the full text of the R-				
phrases declared above.				
Citric acid	77-92-9	1-6	Citric acid	77-92-9
See section 16 for the full text of the R-			See section	
phrases declared above			16 for the	
			full text of	
			the R-	
			phrases	

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	declared	
	above	

^{*} EC-No. means EINECS- or ELINCS-number.

4 First-aid measures

Effects and symptoms

Inhalation Over-exposure by inhalation (dust) may cause respiratory irritation

(coughing).

Ingestion Ingestion of the product may cause irritation and discomfort.

Skin contact There is no known acute effect after over-exposure to this product.

Eye contact Risk for serious damage to eyes.

First-aid measures

General Move exposed person to fresh air. Remove contaminated clothing.

Inhalation If inhaled, remove to fresh air. Obtain medical attention if symptoms

occur.

Ingestion If swallowed, rinsed mouth with water (only if the person is

conscious). Obtain medical attention if symptoms occur.

Skin contact Rinse with plenty of running water. Remove contaminated clothes

and shoes. Obtain medical attention if symptoms occur.

Eye contact Rinse immediately with plenty of running water. Consult medical

attention for eyes immediately.

First-aid facilities No special recommendations.

5 Fire-fighting measures

Extinguishing media

Small fire suitable Use dry chemical or CO2.

Large fire suitable Use water, foam or dry chemical powder-

Unusual fire/explosion hazards Based on the available data of this product no hazardous properties

are known.

Hazardous thermal

decomposition products In case of fire, may produce hazardous decomposition products such

as carbon monoxide, carbon dioxide, sodium oxide.

Special fire-fighting procedures No special measures required.

Protection of fire-fighters Wear suitable protective clothing. Self-contained breathing

apparatus.

6 Accidental release measures

Personal precautions Ensure good ventilation. Avoid formation of dust and inhalation of

dust. See protective measures under point 7 and 8.

Environmental precautions

Clean-up methods

Do not allow to enter drains/surface water/ground-water.

Small spill and leak Wash with plenty of water.

Large spill and leak (

Collect spill in suitable containers by mechanical means. Avoid dust

formation.

Note See section 8 for personal protective

equipment and section 13 for waste disposal.

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7 Handling and storage

Handling Use with adequate ventilation. No special technical protective

measures are necessary.

Storage Store in a dry, cool and well-ventilated area (due to limited

adsorption properties). The product has been produced and

packaging in accordance with strict quality practices. Maintain this quality level by storing this product away from other chemicals.

The product should be handled with the care usual when dealing

with chemicals.

Packaging materials

Remarks

Suitable Polyethylene or Material, chemical-resistant.
Note See section 10 for stability and reactivity.

8 Exposure controls / personal protection

Engineering measures See section 7. No additional measures necessary.

Hygiene measures When using does not eat, drink or smoke. Wash hands after handling

compounds and before eating, smoking and using the lavatory at the

end of the day.

Personal protective equipment – Production scale

Respiratory system Breathing protection if breathable aerosols/dust is formed. Particle

filter with medium efficiency for solid and liquid particles (e.g. EN

143 or 149, Type P2 or FFP2).

Skin and body Working clothes

Eyes Safety glasses with side shields.

Hands Suitable chemical resistant safety gloves (EN 374) also with

prolonged, direct contact and other.

Supplementary note The specifications are based on own tests, literature data and

information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective

glove in practice may be much shorter than the determined

permeation time.

Recommended material(s) > 8 hours (breakthrough time): Nitril rubber, butyl rubber, neoprene,

Viton, PVC. Replace damaged gloves. Advice on personal protection

is applicable for high exposure levels. Select proper personal protection based on a risk assessment of the actual situation.

9 Physical and chemical properties

Physical state Powder, crystallic Colour white to white-yellow

Odour faint odour

pH 4.1 – 4.4 (concentration 10%)

Boiling point 465°C

Melting point >109 °C (partially decomposition; complete decomposition >130 °C)

Flash point Not available. Lower explosion limit Not available.

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Auto-ignition temperature > 150 °C (Wire basket)

Density (g/cm3) Not available. Bulk density $0.9 - 1.0 \text{ g/cm}^3$

Solubility in water soluble

Solubility Easy soluble in the following materials: cold water.

Partially soluble in the following materials: methanol.

Molecular weight 130 g/Mol Minimum ignition energy Not available. Dust explosion class Not available.

Remarks More detailed information on the physical and chemical properties

can be requested from the supplier.

10 Stability and reactivity

Stability Stable under recommended storage and handling conditions (see

section 7).

Conditions to avoid Exposure to sources of heat, sources of ignition, open flame.

Materials to avoid Oxidizing substances, inorganic acids

Hazardous decomposition

Products In case of fire: see section 5.

11 Toxicological information

Potential acute health effects

Inhalation Over-exposure by inhalation (dust) may cause respiratory irritation

(coughing).

Ingestion There is no known acute effect after over-exposure to this product.

Skin contact Slight irritant (redness).

Eye contact Risk for serious damage to eyes.

Acute toxicity

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Product / ingredient name	Resultat	Species	Dose	Exposure
potassium diformate	LD50 Oral	Rat	> 2000 mg/kg	-
	LD50 dermal		> 5.15 mg/l	4 hours

Primary irritation

Product / ingredient name	Test	Species	Evaluation	Method
potassium diformate	Skin	Rabbit	not irritant	EEC 84/449, B4
	Eye	Rabbit	irritant	EEC 84/449, B5

Sensitization No sensitizing effect admits. [OECD Guideline 406]

Potential chronic health effects

Chronic effects

Carcinogenicity

No known significant effects or critical hazards.

No known significant effects or critical hazards.

The substance was not mutagenic in bacteria.

Teratogenicity

No known significant effects or critical hazards.

Developmental effects

No known significant effects or critical hazards.

Fertility effects

No known significant effects or critical hazards.

Chronic toxicity No specific data.
Carcinogenicity No specific data.

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Mutagenicity No mutagenic effect was found in various tests with mammalian cell

culture and mammals.

Mutagenicity

Product / ingredient name	Test	Experiment	Result
potassium diformate	Ames Test	In vitro; Bacteria	negative

Teratogenicity No specific data.

Reproductive toxicity The results of animals studies gave no indication of a fertility

impairing effect

Conclusion / summary No indications for carcinogenicity. No indications for reproduction

toxicity. The product has not been tested. The statement has derived

from products of similar structure and composition.

12 Ecological information

Environmental effects Readily biodegradable. This product shows a low bioaccumulation

potential.

Aquatic ecotoxicity

Product / ingredient name	Test	Species	Result	Exposure
potassium diformate	Mortality	Fish	Akut LC50 540 mg/L	96 hours
	Mortality	Daphnia	Akut LC50 3500 mg/L	48 hours
	Mortality	Algae	Akut EC50 >1000 mg/L	2 hours

Persistence / degradability Readily biodegradable (according to OECD criteria).

Elimination information: Test method: OECD 301D; EEC 92/69, C.4-E (aerobic), activated

sludge, domestic. Method of analysis: BOD of the ThOD. Degree of

elimination: >90 % (28 d).

Other adverse effects No known significant effects or critical hazards.

AOX The product does not contain organically bound halogens which

could lead to an AOX (Absorbable Organically bound Halogens) value

in waste water.

Mobility Dissolves readily in water.

13 Disposal considerations

Methods of disposal (waste of

residues; contaminated

packaging) Waste must disposed of in accordance with national and local

environmental regulations. Controlled biodegradation in waste

water treatment is possible.

14 Transport information

International transport regulations

Regulatory	UN - Number	Proper shipping	Class	PG *	Label	Additional
information		name				information
ADR/RID-class	Not	-	-	-	-	-
	regulated.					

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ADNR-class	Not	-	-	-	-	-
	regulated.					
IMDG-class	Not	-	-	-	-	-
	regulated.					
IATA-class	Not	-	-	-	-	-
	regulated.					

PG*: Packing group

15 Regulatory information

EC-regulations

According to EU directives 67/548/EEC and 1999/45/EC this product does to labelling as:

Xi, irritant



Risk phrases R41 – risk of serious damage to eyes

Safety phrases S22 – do not breathe dust S25 – avoid contact with eyes

S26 – in case of contact with eyes, rinse immediately with plenty of

water and seek medical advice S39 – wear eye/face protection

Remarks

16 Other information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Training advice: Handling of this substance or preparation is restricted to skilled personal only.

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