

# **SDS - Safety Data Sheet**

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

1. Identification of the substance/mixture and of the company/undertaking **1.1 Product identifier** 

Trade name

# **SANBIO<sup>®</sup> PURA**

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture Preservative, feed additive Chemical product name Recommended use Maximum dosage None. Remark None.

Preparation of sodium formate and formic acid Preservative, feed additive

#### 1.3 Details of the supplier of the safety data sheet

Company	SANBOS GmbH	l
	Geraer Strasse	14
	D-06712 Guter	born-Drossdorf
	Germany	
	Telephone	+49-3441-539873
	Telefax	+49-3441-539874
	Email address	info@sanbos.com

#### **1.4 Emergency telephone number**

Giftinformationszentrale Nord, Göttingen, Germany Telephone +49 (0)551 19240

#### 2. Hazards identification

#### 2.1 Classification of the substance or mixture

The preparation is classified as Classification	dangerous according to directive 67/548/EEC and its amendments. 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
2.2 Label elements	
EC-regulations	According to EU directives 67/548/EEC and 1999/45/EC this product does to labelling as: Xi, irritant





Risk phrasesR41 – risk of serious damage to eyesSafety phrasesS22 – do not breathe dustS25 – avoid contact with eyesS26 – in case of contact with eyes, rinse immediately with plenty ofwater and seek medical adviceS39 – wear eye/face protection

#### 2.3 Other hazards

Full text of R phrases referred to in sections 2 and 3 – United Kingdom (UK) R35 – causes severe burns

Full text of classifications referred to in sections 2 and 3 – United Kingdom (UK) C- corrosive.

#### 3. Composition/information on ingredients

#### 3.1 Substances

Chemical Name	CAS-No. EINECS-No. / ELINCS-No.	Concentration [% w/w]
Sodium formate See section 16 for the full text of the R-phrases declared above.	141-53-7 205-488-0	50-60
Formic acid See section 16 for the full text of the R-phrases declared above	64-18-6 200-579-1	30-45
Citric acid See section 16 for the full text of the R-phrases declared above	77-92-9	1-6

#### 4. First aid measures

#### 4.1 Description of first aid measures

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.

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Geraer Str. 14	F +49 3441 539874	File:	13_SDS_PU_GB_V3.0
D-06712 Gutenborn-Drossdorf	info@sanbio.eu	Version:	3.0
Germany	www.sanbio.eu	Revision:	04.09.2019

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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. Firefighting measures

Example Simil 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       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.       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       Do not allow to enter drains/surface water/ground-water.         Clean-up methods       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.         7. Handling and 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.         Remarks       The product should be handled with the care usual when dealing with chemicals.         Remarks       The product should be handled with the care usual when dealing with chemicals.         Remarks       The pro	Extinguishing media	
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Packaging materials       Polyethylene or Material, chemical-resistant.         Suitable       Polyethylene or Material, chemical-resistant.         Note       See section 10 for stability and reactivity.         SANBOS GmbH       T +49 3441 539873       Approved:       JM       Page 3/7         Geraer Str. 14       F +49 3441 539874       File:       13_SDS_PU_GB_V3.0       Page 3/7         D-06712 Gutenborn-Drossdorf       info@sanbio.eu       Version:       3.0	Remarks	
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Note     See section 10 for stability and reactivity.       SANBOS GmbH     T +49 3441 539873     Approved: JM     Page 3/7       Geraer Str. 14     F +49 3441 539874     File: 13_SDS_PU_GB_V3.0     Page 3/7       D-06712 Gutenborn-Drossdorf     info@sanbio.eu     Version: 3.0     3.0	0 0	
SANBOS GmbH         T +49 3441 539873         Approved:         JM         Page 3/7           Geraer Str. 14         F +49 3441 539874         File:         13_SDS_PU_GB_V3.0           D-06712 Gutenborn-Drossdorf         info@sanbio.eu         Version:         3.0		
Geraer Str. 14         F +49 3441 539874         File:         13_SDS_PU_GB_V3.0           D-06712 Gutenborn-Drossdorf         info@sanbio.eu         Version:         3.0	Note	See section 10 for stability and reactivity.
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	Germany	



#### 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 equipmen	t – 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 of formic acid
рН	3.0 – 4.0 (concentration 10%)
Boiling point	Not available.
Melting point	> 80 °C (partially decomposition)
Flash point	Not available.
Lower explosion limit	Product is not explosive.
Auto-ignition temperature	> 150 °C (Wire basket)
Density ( g/cm3)	Not available.
Bulk density	$0.8 - 1.0 \text{ g/cm}^3$
Solubility in water	soluble
Solubility	Easy soluble in the following materials: cold water.
	Partially soluble in the following materials: methanol.
Molecular weight	Not available
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

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Stability	Stable under recommended storage and handling conditions (see section 7).
Conditions to avoid Materials to avoid Hazardous decomposition	Exposure to sources of heat, sources of ignition, open flame. Oxidizing substances, inorganic acids
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	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.

#### Acute toxicity

Product / ingredient name	Resultat	Species	Dose	Exposure
Sodium diformate	LD50 Oral	Rat	> 2000 mg/kg	-
	LD50 dermal		> 5,15 mg/l	4 hours

#### **Primary irritation**

Product / ingredient name	Test	Species	Evaluation	Method
Sodium diformate	Skin	Rabbit	not irritant	EEC 84/449, B4
	Eye	Rabbit	irritant	EEC 84/449, B5
Sensitization	No sensitizing effect	admits. [OECI	OGuideline 406]	

#### Potential chronic health effects

Chronic effects	No known significant effects or critical hazards.
Carcinogenicity	No known significant effects or critical hazards.
Mutagenicity	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.
Mutagenicity	No mutagenic effect was found in various tests with mammalian cell
	culture and mammals.

Mutagenicity

Product / ingredient name	Test	Experiment	Result
Sodium 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
Sodium 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	72 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.
ΑΟΧ	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.

#### 14.2 Sea transport

International transport regulations

Regulatory	UN - Number	Proper shipping	Class	PG *	Label	Additional
information		name	0.000		Laber	information
ADR/RID-class	Not	-	-	-	-	-
	regulated.					
ADNR-class	Not	-	-	-	-	-
	regulated.					
IMDG-class	Not	-	-	-	-	-
	regulated.					
IATA-class	Not	-	-	-	-	-
	regulated.					

PG\* : Packing group

#### **15. Regulatory information**

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#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

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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