



# **SODIUM BENZOATE MICRONISED**

**Grade Name: SOBA-100-NM**

## **1 Identification of the substance/mixture and of the company/undertaking**

### **Product details**

**Trade name** : **sodium benzoate micronised**

Registration number 05-2114565681-43-0000 (Pre-registration Number)

Application of the substance / the preparation

Used as a food preservative.

Used as a preservative in various lotions & mouthwashes.

It is also used as a corrosion inhibitor for water based paints.

Used in production of benzyl benzoate.

Sodium benzoate micronised is used as an antimicrobial agent.

Manufacturer/Supplier:

Nimbasia Stabilizers

F - 172 (A & B) & F-173,

Indraprastha Industrial Area,

Kota, Rajasthan, India 324005.

Phone No. +91 744 2980970

Fax No.

Further information obtainable from:

Mr. Pramod Mittal

info@nimbasia.com

Information in case of emergency:

Contact details of European

importer

Emergency telephone number :

Telephone number of EU importer :

Opening hours :

Other Comments (e.g. language) : English

(s) of the phone service)

## **2 Hazards identification**

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Xi; Irritant

R36: Irritating to eyes.

Information concerning particular hazards for human and environment : Not applicable.

Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms



GHS07

Signal word Warning

Hazard-determining components of labelling : Void

Hazard statements

H319 Causes serious eye irritation.

Precautionary statements

P280 : Wear protective gloves/protective clothing/eye protection/face protection.

P264 : Wash thoroughly after handling.

P305+P351+P338 IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists : Get medical advice/attention.

Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

Code letter and hazard designation of product:



Xi Irritant

Risk phrases

: 36 Irritating to eyes.

### 3 Composition/information on ingredients

#### Chemical characterization:

CAS No. Description

532-32-1 sodium benzoate  
micronised

Identification number(s)

EINECS Number : 208-534-8

Additional information:

Molecular formula : NaC<sub>6</sub>H<sub>5</sub>CO<sub>2</sub>

Molecular Weight : 144.11 g/mol

### 4 First aid measures

After inhalation : Supply fresh air; consult doctor in case of complaints.  
Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

After skin contact : Generally the product does not irritate the skin.  
Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

After eye contact : Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.  
Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

After swallowing : If symptoms persist consult doctor. Wash mouth out with water.

Information for doctor:

The following symptoms may occur:

Inhalation : May cause irritation to the respiratory tract.  
Symptoms may include coughing and shortness of breath.

Ingestion : Large oral doses may cause irritation to the gastrointestinal tract.

Skin Contact : May cause irritation with redness and pain.

Eye Contact : Causes irritation, redness and pain

### 5 Firefighting measures

Suitable extinguishing agents : CO<sub>2</sub>, powder or water spray. Fight larger fires with

water spray or alcohol resistant foam.

Use water spray, dry chemical, carbon dioxide, or chemical foam.

Special hazards caused by the substance, its products of combustion or resulting gases

: When heated to decomposition it emits acrid fumes and disodium oxide.

Protective equipment

: Wear self contained breathing apparatus.

Additional information

substance, its products of combustion or resulting gases

Protective equipment

### **Additional information**

Prevent fire extinguishing water from contaminating surface water or the ground water system.

## **6 Accidental release measures**

Person-related safety precautions

: Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Measures for environmental protection

: Do not allow to enter sewers/ surface or ground water.

Measures for cleaning/collecting

: Sweep up and add to the container for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

## **7 Handling and storage**

Handling:

Information for safe handling:

Prevent formation of dust.

Avoid contact with eyes and skin.

Use in well ventilated area.

Information about fire and explosion protection

: No special measures required.

Storage:

Requirements to be met by storerooms and receptacles

: Sodium benzoate micronised should be stored in cool, dry place. Containers should be kept closed as much as possible.

Information about storage in one common storage facility:

Store away from oxidizing agents.

Do not store together with acids.

Further information about storage conditions

: Keep container tightly sealed.

## 8 Exposure controls/personal protection

Additional information about design  
of technical facilities:

Use adequate ventilation to keep airborne concentrations low.

Ingredients with limit values that require monitoring at the workplace: Not required.

Personal protective equipment:

General protective and hygienic	: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing measures Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.
Respiratory protection	: Self-contained respiratory protective device.
Protection of hands	: The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Material of gloves	: Nitrile rubber, NBR
Glove thickness	: 0.11 mm
Penetration time of glove material	: Recommended break through time for Nitrile Rubber : >480 min

Eye protection:



Tightly sealed goggles

Body protection : Use protective suit.

## 9 Physical and chemical properties

### General Information

Appearance	:
Form	: Crystalline powder
Colour	: White
Odour	: Odourless

### Change in condition

Melting point/Melting range	: >300°C
Boiling point/Boiling range	: 464.9°C
Flash point	: >100°C (Closed Cup)
Ignition temperature	: > 500°C
Danger of explosion	: Can form explosive mixture with air.
Density	: 1.44 g/cm <sup>3</sup>
Solubility in / Miscibility with water	: Soluble.
pH-value	: pH value ca. 7.5 at 10 g/l water

### Additional information:

Partition Coefficient I<sub>pg</sub> Pow : -2.269  
Vapour Pressure : 3.67E-009 mm Hg; 4.89E-09 hPa

## 10 Stability and reactivity

Thermal decomposition / conditions to be avoided : When heated to decomposition it emits acrid fumes and disodium oxide.  
Materials to be avoided : Avoid contact with strong oxidizing agents.  
Avoid contact with strong acids.  
Dangerous reactions Can form explosive mixture with air.  
Dangerous decomposition products : Carbon monoxide

## 11 Toxicological information

### Acute toxicity:

LD/LC50 values relevant for classification:

Oral LD50 4070 mg/kg (rat)

### Primary irritant effect:

On the skin : No irritant effect.  
On the eye : Irritating effect.  
Sensitization : No sensitizing effects known.

### Acute effects (acute toxicity, irritation and corrosivity)

Skin Irritation

Species : rabbit  
Result : not irritating  
Method : OECD Guide-line 404 "Acute Dermal Irritation/Corrosion"

Eye Irritation

Species : rabbit  
Result : slightly irritating  
Method : OECD Guide-line 405 "Acute Eye Irritation/Corrosion"  
Draize score : 9.3

### Repeated dose toxicity

Species : rat  
Route of admin. : oral feed  
Exposure period : 30 d  
Frequency of treatment : continuously in diet  
Doses : 16-1090 mg/kg/day  
NOAEL : > 1090 mg/kg  
Result : No adverse effects were observed.

### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

CAS No. 532-32-1

Mutagenicity	: Ames test showed negative results.
Carcinogenicity	
Species	: rat
Exposure period	: 18-24 months
Method	: OECD Guide-line 451 "Carcinogenicity Studies"
Result	: negative

## 12 Ecological information

### Information about elimination (persistence and degradability):

Biodegradation	
Type	: aerobic
Degradation	: ca. 90 % after 7 day
Result	: readily biodegradable
Method	: OECD Guide-line 301 B "Ready Biodegradability: Modified Sturm Test (CO2 evolution)"

### Behaviour in environmental systems:

#### Mobility and bioaccumulation potential:

Bioaccumulation Potential	
BCF	: 3.16
Ecotoxicological effects:	
Acquatic toxicity:	
EC50 (96 hrs)	430 g/l (Green Algae) 484 mg/l (Fish Pimephales promelas) >100 mg/l (Daphnia magna)

#### Additional ecological information:

##### General notes:

Water hazard class 1 (German Regulation) (Assessment by list)	: slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
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Results of PBT and vPvB assessment : To be provided after the REACH registration.

## 13 Disposal considerations

### Product:

Recommendation	: Must not be disposed together with household garbage. Do not allow product to reach sewage system.
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### Uncleaned packaging:

Recommendation	: Disposal must be made according to official regulations.
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## 14 Transport information

### Land transport ADR/RID (cross-border)

ADR/RID class	: NA
UN-Number	: NA

Hazard label : NA  
Remarks : Not classified as dangerous in the meaning of transport regulations.

#### **Maritime transport IMDG:**

IMDG Class : NA  
UN Number : NA  
Label : NA  
Packaging group : NA  
Marine pollutant : No  
Remarks : Not classified as dangerous in the meaning of transport regulations.

#### **Air transport ICAO-TI and IATA-DGR:**

ICAO/IATA Class : NA  
UN/ID Number : NA  
Label : NA  
Remarks : Not classified as dangerous in the meaning of transport regulation

## **15 Regulatory information**

#### **Labelling according to Regulation (EC) No 1272/2008**

Hazard pictograms : Please refer section 2  
Signal word : Warning  
Hazard statements : Please refer section 2  
Precautionary statements : Please refer section 2

#### **Labelling according to EU guidelines:**

Risk phrases : Please refer section 2  
Safety phrases : Please refer section 2

#### **Chemical safety assessment**

A Chemical Safety Assessment has not been carried out and shall be available at the time of REACH registration.

#### **National regulations:**

Other regulations, limitations and prohibitive regulations

Substances of very high concern : The substance is not listed as SVHC. (SVHC) according to REACH, Article 57

## **16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.



## Relevant phrases

H319 : Causes serious eye irritation

R36 : Irritating to eyes.

**Department issuing MSDS** : Product safety department.

## Contact:

Mr. Pramod Mittal

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## Abbreviations and acronyms:

ADR	: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID	: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG	: International Maritime Code for Dangerous Goods
IATA	: International Air Transport Association
IATA-DGR	: Dangerous Goods Regulations by the "International Air Transport Association"
(IATA) ICAO	: International Civil Aviation Organization
ICAO-TI	: Technical Instructions by the "International Civil Aviation Organization"
(ICAO) GHS	: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS	: European Inventory of Existing Commercial Chemical Substances
CAS	: Chemical Abstracts Service (division of the American Chemical Society)
LC50	: Lethal concentration, 50 percent
LD50	: Lethal dose, 50 percent

## Sources

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/

EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

SIDS Initial Assessment Report for Benzoates

<http://www.inchem.org/documents/sids/sids/BENZOATES.pdf>

IUCLID Dataset for sodium benzoate micronised

<http://ecb.jrc.ec.europa.eu/iuclid-datasheet/532321.pdf>

Hazardous Substances Data Bank (HSDB)

<http://toxnet.nlm.nih.gov/cgi-bin/sis/search/f?./temp/~2nVTj4:1>

SVHC List from European Chemical Agency (ECHA) Site

[http://echa.europa.eu/chem\\_data/authorisation\\_process/candidate\\_list\\_table\\_en.asp](http://echa.europa.eu/chem_data/authorisation_process/candidate_list_table_en.asp)

Wikipedia for Benzoates

[http://en.wikipedia.org/wiki/Sodium\\_benzoate](http://en.wikipedia.org/wiki/Sodium_benzoate)

MSDS of Acros Organics

[http://www.acros.be/DesktopModules/Acros\\_Search\\_Results/](http://www.acros.be/DesktopModules/Acros_Search_Results/)

MSDS of Merck KGaA

[www.merck-chemicals.com](http://www.merck-chemicals.com)

MSDS of Mallinckrodt Baker, Inc.

<http://www.jtbaker.com/msds/englishhtml/s2930.htm>

**Data compared to the previous version altered.**

Section 1 - Identification of substance or mixture or of company / undertaking.

Section 2 - Hazard Identification

Section 3 - Composition /Information on ingredients

Section 6 - Accidental Release Measures

Section 7 - Handling and Storage

Section 8 - Exposure Controls / Personal Protection

Section 9 - Physical & Chemical Properties

Section 11 - Toxicological Information

Section 12 - Ecological Information

Section 14 - Transport Information

Section 15 - Regulatory Information