



Version : 2.1
 Reviewed on : 08.07.2004
 Replaces the version of : 24.03.2004
 Print date : 09.09.2004

DSB * 2NMG

1. Identification of the Substance/preparation and the company/undertaking

Product information

Trade name : DSB * 2NMG

COMPANY : Boehringer Ing. Pharma GmbH & Co.KG
 Binger Str. 173
 55216 Ingelheim am Rhein

Telephone : +496132774243
 Telefax : +496132774290

Informing department : A Umweltschutz, Sicherheit und Infrastruktur (USI)
 Emergency information : (+49) (0)61 32 77 23 23 (24 h)

2. Composition/Information on ingredients

Synonyms : 3-O-(3'-Dimethylsuccinyl)betulinic acid x 2 Meglumine
 DSB Glucamine salt

Components	CAS:	Symbol(s):	R-phrases(s):	Conc.
2,2-Dimethyl-succinic acid-4-(3,2-carboxy-1-isopropenyl-5a,5b,6,8,11a-pentamethyl-icosahydro-cyclopenta(a)chrysen-9-yl) ester x 2(6-Methylamino-hexane-1,2,3,4,5-pentacil) C36-H58-O6 x 2(C7-H17-N-O-5) MM: 975.28	CAS: EC: INDEX:	Xn	R22	100 %

3. Hazards Identification

Harmful if swallowed.

The product is used a pharmaceutical active substance. All precautions for drugs and pharmaceuticals should thoroughly be observed.

4. First aid measures

General advice : Move out of dangerous area. Do not leave affected persons unsupervised. Protection is needed for the First Aid. Seek medical treatment.

Eye contact : Rinse opened eye for several minutes under running water. Protect unharmed eye.

Skin contact : Wash off immediately with plenty of water. Take off all contaminated clothing immediately.

Inhalation : Supply fresh air or oxygen; call for doctor.

Ingestion : Clean mouth with water and drink afterwards plenty of water.

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Notes to physician
 Treatment : Medical supervision for minimum 48 hours.

6. Fire-fighting measures

Specific hazards during fire fighting : Can be released in case of fire: nitrogen oxides (NOx), carbon oxides
 Special protective equipment for fire-fighters : In the event of fire and/or explosion do not breathe fumes, self-contained breathing apparatus
 Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment
 Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

8. Accidental release measures

Personal precautions : Wear protective equipment. Keep unprotected persons away.
 Environmental precautions : Do not flush into surface water or sanitary sewer system.
 Methods for cleaning up : Use mechanical handling equipment. Use approved industrial vacuum cleaner for removal.

7. Handling and storage

Handling
 Safe handling advice : Use only in area provided with appropriate exhaust ventilation.
 Storage
 Requirements for storage areas and containers : Jointless smooth floor. Keep container tightly closed. Protect from heat and direct sunlight.
 Advice on common storage : Keep away from food, drink and animal feeding stuffs.
 German storage class : 11.00 Combustible Substances (Germany only)

8. Exposure controls / Personal protection

Additional technical information on the plant : Local exhaust
 Personal protective equipment
 Respiratory protection : No personal respiratory protective equipment normally required. Respirator must be worn if exposed to dust, half mask (EN 140) particle filter P2 (EN 143)
 Hand protection : Chemical safety glove category III (EN 374). Camaril, green (Nitril). Order-No. 732. Company KCL resistance (permeability) Level 3 (480 min)
 Eye protection : goggles
 Skin and body protection : Protective work clothing
 Additional advice : Only use protective equipment in accordance with national/international regulations. Follow the national regulations about wearing personal protective equipment and the warranty given by the manufacturer for the safe function.
 Hygiene measures : General industrial hygiene practice. Wash hands before breaks and at the end of workday. Keep working clothes separately.

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Protective measures : Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Form : Powder
 Melting point/range : 152,0 - 158,0 °C
 Ignition temperature : No data available
 pH : No data available

10. Stability and reactivity

Thermal decomposition : No data available
 Hazardous reactions : Dust may form explosive mixture in air.

11. Toxicological information

Acute oral toxicity : MTD (maximum tolerated dose) 600,0 - 1.200,0 mg/kg rat (male and female)
 Skin irritation : Mild skin irritation (rabbit) Method: OECD Test Guideline, 404
 Ames test : Negative
 Mutagenicity : Test with mouse lymphoma cells: negative
 Mutagenicity : Micronucleus test: negative

12. Ecological information

Further information : At present there are no ecotoxicological assessments. Do not flush into surface water or sanitary sewer system.

13. Disposal considerations

Product : According to the Environmental Protection (Duty of Care) Regulations 1991.

14. Transport information

Further information : Not classified as dangerous in the meaning of transport regulations. For the internal transport: Use only released containers. Use only tightly closed containers. In accordance with the regulations the container must be labelled. Protect container against fall down.

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15. Regulatory information

Symbol(s):



R-phrase(s)

: R22

Harmful if swallowed.

S-phrase(s)

: S22
S37/39Do not breathe dust.
Wear suitable gloves and eye/face
protection.

S46

If swallowed, seek medical advice
immediately and show this container or
label.

National legislation

Water contaminating class
(Germany only)

: WAAWQFSE

WGK 3 highly water contaminating

16. Other information

R-phrase(s):

2,2-Dimethyl-succinic acid
 4-(2a-carboxy-1-
 isopropenyl-5a,5b,8,8,11a-
 pentamethyl-icosahydro-
 cyclopenta(a) chrysen-9-yl)
 ester x 2(6-Methylamino-
 hexane-1,2,3,4,5-pentaox)
 CAS:

R22

Harmful if swallowed.

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.