SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name :
Novobiocin sodium
Product Number : N6160
Brand : -Conier
CAS-No. : 1476-53-5

1.2 Relevant identified uses of the substan ce or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Emergency:+86-23-62922305
Fax:+86-23-62459727
Tel:+86-23-62922305
Address:11F, #20 building, #18 Fuquan Road, Jiangbei District, CHONGQING 400020, P.R China
Company:Conier Chem & Pharma Limited

1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887 (CHEMTREC)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Oral (Category 4), H302
Skin sensitisation (Category 1), H317
For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, incl uding precautionary statements

Pictogram



Signal word Warning
Hazard statement(s)
H302 Harmful if swallowed.
H317 May cause an allergic skin reaction.
Precautionary statement(s)
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves.
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
Rinse mouth.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P363 Wash contaminated clothing before reuse.
P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms : Novobiocin
Formula : C31H35N2NaO11
Molecular weight : 634.61 g/mol
CAS-No. : 1476-53-5
EC-No. : 216-023-6

Hazardous components

Component Classification Concentration

Novobiocin sodium

Acute Tox. 4; Skin Sens. 1; 90 - 100 %
H302, H317
For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures
General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.
If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact
Wash off with soap and plenty of water. Consult a physician.
In case of eye contact
Flush eyes with water as a precaution.
If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
4.3 Indication of any immediate medical attention and special treatment needed
No data available
5. FIREFIGHTING MEASURES
5.1 Extinguishing media
Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
5.2 Special hazards arising from the substance or mixture
No data available
5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.
5.4 Further information
No data available
6. ACCIDENTAL RELEASE MEASURES
6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid breathing dust.
For personal protection see section 8.
6.2 Environmental precautions
7. HANDLING AND STORAGE
Do not let product enter drains.
7.1 Precautions for safe handling
6.3 Methods and materials for containment and cleaning up
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.Further processing of solid materials may result in
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for
the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration
disposal.
before additional processing occurs.
6.4 Reference to other sections
For disposal see section 13.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.
8. EXPOSURE CONTROLS/PERSONAL PROTECTION
7.2 Conditions for safe stora ge, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.
8.1 Control parameters
Recommended storage temperature 2 - 8 °C
Components with workplace control parameters
Contains no substances with occupational exposure limit values.
Hazardous components without workplace control parameters
8.2 Exposure controls
Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Personal protective equipment
Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin protection
Keep in a dry place.
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after

7.3 Specific end use(s)
use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated
Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
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Splash contact
Minimum layer thickness: 0.11 mm
Break through time: 480 min
data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic phys ical and chemical properties
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an
a) Appearance Form: powder
industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It
Colour: beige
should not be construed as offering an approval for any specific use scenario.
b) Odour No data available

Body Protection
c) Odour Threshold No data available
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
d) pH 6.5 - 8.5

Respiratory protection
e) Melting point/freezing Melting point/range: 215 °C (419 °F)
For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator.For higher level
point
protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and
f) Initial boiling point and No data available
boiling range
g) Flash point No data available
h) Evaporation rate No data available
i) Flammability (solid, gas) No data available
j) Upper/lower No data available
flammability or
explosive limits
components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
k) Vapour pressure No data available

Control of environmental exposure
Do not let product enter drains.
l) Vapour density No data available
m) Relative density No data available
n) Water solubility soluble
o) Partition coefficient: n- No data available
octanol/water
p) Auto-ignition No data available
temperature
q) Decomposition 220 °C (428 °F) -
temperature
r) Viscosity No data available
s) Explosive properties No data available
t) Oxidizing properties No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available
10.4 Conditions to avoid
No data available
10.5 Incompatible materials
Oxidizing agents
10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx), Sodium oxides
Other decomposition products - No data available
11. TOXICOLOGICAL INFORMATION
11.1 Information on toxicological effects
Acute toxicity
LD50 Oral - Mouse - 962 mg/kg
Inhalation: No data available
In the event of fire: see section 5
Dermal: No data available
No data available
Skin corrosion/irritation
No data available
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as
Serious eye damage/eye irritation
probable, possible or confirmed human carcinogen by IARC.
Respiratory or skin sensitisation
No data available
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
Germ cell mutagenicity
Rat
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a
Other cell types
carcinogen or potential carcinogen by OSHA.
Reproductive toxicity
No data available
No data available
Specific target organ toxicity - single exposure
No data available

Unscheduled DNA synthesis
Rat
Other cell types
DNA inhibition
Specific target organ toxicity - repeated exposure
No data available
Aspiration hazard
No data available
Additional Information
RTECS: RD5425000
Vomiting, Diarrhoea, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Stomach - Irregularities - Based on Human Evidence
Stomach - Irregularities - Based on Human Evidence
12. ECOLOGICAL INFORMATION
12.1 Toxicity
No data available
12.2 Persistence and degradability
No data available
12.3 Bioaccumulative potential
No data available
12.4 Mobility in soil
No data available
12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
12.6 Other adverse effects
No data available
13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
Product
Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging
Dispose of as unused product.
14. TRANSPORT INFORMATION
DOT (US)
Not dangerous goods
IMDG
Not dangerous goods
IATA
Not dangerous goods
15. REGULATORY INFORMATION
SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard
Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act.
Pennsylvania Right To Know Components
CAS-No. Revision Date
Novobiocin sodium 1476-53-5
CAS-No. Revision Date
Novobiocin sodium 1476-53-5
New Jersey Right To Know Components
CAS-No. Revision Date
Novobiocin sodium 1476-53-5
California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.
16. OTHER INFORMATION
Full text of H-Statements referred to under sections 2 and 3.
Acute Tox. Acute toxicity
H302 Harmful if swallowed.
H317 May cause an allergic skin reaction.
Skin Sens. Skin sensitisation
HMIS Rating
Health hazard: 2
Chronic Health Hazard: *
Flammability: 0
Physical Hazard 0
NFPA Rating
Health hazard: 2
Fire Hazard: 0
Reactivity Hazard: 0
Further information
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. CONIER Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.conier.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.
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