

DESOXY-TETRAENE(5-ST)

MATERIAL SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006
Revision: 00 – Revision date: 26.08.2011

SECTION 1 IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

1.1 Product identifier

Product name: DESOXY-TETRAENE(5-ST)
CAS Number: 117048-56-3
EC Number: -
INDEX Number: No data available
Registration Number: No data available
Molecular Weight: 308.41
Molecular Formula: $C_{21}H_{24}O_2$

1.2 Relevant identified uses of the substance

Common use: Chemical intermediate for the preparation of pharmaceutical products

1.3 Details of the supplier of the safety data sheet

Company name: STERLING S.r.l.
Address: Via della Carboneria, 30
06073 Solomeo di Corciano (PG) – Italy

E-mail address: spatriarca@sterling.it
Telephone: 075/5294001
Fax: 075/5294000

1.4 Emergency telephone number

Italy: +39 02 66101029 (Poison Information Centre Niguarda Ca' Granda – Milano)
Foreign countries: Contact the closest Poisons Information Centre.

SECTION 2 HAZARDS IDENTIFICATION

2.1 Classification of the substance

2.1.1 Classification according to Regulation (EC) N. 1272/2008 (CLP/GHS)

Skin. Irrit. 2 : H315
Eye Irrit. 2 : H319
STOT SE 3 : H335

2.1.2 Classification of the substance according to Directive 67/548/EEC

Xi; R36/37/38

Full text of R and H-phrases: see section 16

2.2 Label elements



Signal Word: **WARNING**

Hazard Statement

H315 : Causes skin irritation
H319 : Causes serious eye irritation
H335 : May cause respiratory irritation

Precautionary Statement

Prevention

P260 : Do not breathe dust/fume/gas/mist/vapours/spray
P264 : Wash face, hands and any exposed skin thoroughly after handling
P270 : Do not eat, drink or smoke when using this product
P280 : Wear protective gloves/protective clothing/eye protection/face protection

Response

P302 + P352 : IF ON SKIN: Wash with soap and water
P305 + P351 + P338 : IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing

Storage

P403 : Store in a well ventilated place

2.3 Other hazards

No data available

SECTION 3**COMPOSITION/INFORMATION ON INGREDIENTS****3.1 Substance**

Product name :	DESOXY-TETRAENE(5-ST)
Chemical name :	Pregnan-1,4,9(11)16-tetraene-3,20-dione
Molecular Weight :	308.41
Molecular formula :	C ₂₁ H ₂₄ O ₂
CAS No. :	117048-56-3
EC No. :	-
Concentration :	>98%

3.2 Mixture

Not applicable

SECTION 4**FIRST AID MEASURES****4.1 Description of first aid measures**

General advice:	In case of contact with the substances immediately change contaminated clothing.
Ingestion:	In case of ingestion, if conscious, rinse mouth with water. If the casualty is unconscious, place in the recovery position.
Inhalation:	Remove casualty to fresh air as quickly as possible. Keep warm and at rest. If breathing is difficult, give oxygen if possible, or assisted ventilation.
Skin contact:	In case of skin contact with powders or solutions immediately rinse affected area with copious amount of water and then wash with soap and water. Remove contaminated clothing and shoes.
Eye contact:	Irrigate eyes with copious amounts of water for at least 10-15 min, holding eyelids apart to ensure thorough rinsing.

4.2 Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Thus, no indication on both acute and delayed effects are available.

4.3 Indication of any immediate medical attention and special treatment needed

Obtain medical assistance if breathing remains difficult. Induce vomiting only if indicated by your doctor.

SECTION 5 FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Carbon dioxide (CO₂), foam, dry chemical powder, water spray, and water jet, unless otherwise stated.

Unsuitable extinguishing media: None

5.2 Special hazards arising from the substance

Specific hazard(s): The product is combustible and, like the dust in general, can make an explosive mixture with air. When heated or in the event of a fire, vapors may be harmful to health: carbon oxides (CO_x).

5.3 Advice for firefighters

Special fire fighting procedures: Protective Equipment: Wear full fire resistant self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Ensure the availability of equipment for cooling containers to prevent the danger of overheating in the event of a fire nearby.

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Procedure(s) of personal precaution(s): Keep non-involved personnel away from the area of spillage.
Avoid the generation and spreading of dust.
Ventilate area.
Eliminate sources of ignition.
Avoid contact with skin, eyes and inhalation of dust.
Avoid contact with eyes and skin.
See also sections 8 (protective equipment)

6.2 Environmental precautions

Prevent product from entering sewers, rivers or other bodies of water.
If required, notify relevant authorities according to all applicable regulations.

6.3 Methods and material for containment and cleaning up

Collect free product with suitable mechanical means. Avoid creating dust by spraying the product with water, if there is no contraindication. Ventilate area and wash spill site after material pickup is complete. Transfer the gathered product and the washings to suitable tanks or containers and store/dispose according to relevant regulations.

6.4 Reference to other sections

See also sections 8 (protective equipment) and 13 (disposal).

SECTION 7

HANDLING AND STORAGE

7.1 *Precautions for safe handling*

Use of personal protective equipment must be consistent with good occupational hygiene practices.

Avoid contact with skin, eyes and clothing.

Avoid prolonged or repeated exposure.

Do not breathe dust.

Do not reuse contaminated clothing.

Do not eat, drink or smoke when using this product.

Wash hands thoroughly with soap and water before meals and after work shift.

7.2 *Conditions for safe storage*

Store in a cool place. Store away from all heat sources, including direct sunlight. Open flame. Sources of ignition. Sparks.

Incompatible materials.

Keep container tightly closed in a cool, in a dry and well ventilated place.

SECTION 8

EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 *Control Parameter*

Exposure limit values (ACGIH 2010):

- TLV TWA: No data available

- TLV STEL: No data available

Monitoring procedures: Refer to Dir. 96/82/EC.

8.2 *Exposure Controls*

8.2.1 *Appropriate engineering controls*

When feasible, use closed loop systems or with local exhaust. When inside buildings or confined spaces, ensure adequate ventilation.

The lyophilized powder should be used in biological safety cabinets or in systems with equivalent content.

Provide eyewash fountains at the workplace.

8.2.2 *Personal protection measures, such as personal protective equipment*

Personal Protective Equipment: The personal protective equipment should be chosen in the configuration according to the concentration and quantity of hazardous substances specifically for the workplace.

a) *Eye / Face Protection:* Wear safety goggles (EN 166).

b) *Skin and body Protection:* Protective clothing global. Use rubber or synthetic gloves (EN 374).

c) *Respiratory Protection:* Avoid inhalation of dust, respiratory protection: dust mask with filter type P3 (EN 143).
When required, use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

d) *Heat Dangers:* The product is not handled hot.

8.2.3 Environmental Exposure Controls

Use according to good manufacturing practices avoiding litter.

Take all the technical precautions necessary to prevent the spread of the product into the surrounding.



SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance	Powder
b) Odor	No data available
c) Odor threshold	No data available
d) pH	No data available
e) Melting point/freezing point	No data available
f) Initial boiling point and boiling range	485.7 °C @ 760 mmHg (estimated)
g) Flash point	Not applicable
h) Evaporation rate	No data available
i) Flammability (solid, gas)	No data available
j) Upper/lower flammability or explosive limits	No data available
k) Vapor pressure	1.38E-09 mmHg @ 25 °C (estimated)
l) Vapor density	No data available
m) Relative density	1.15 g/cm ³
n) Solubility(ies)	Soluble in water
o) Partition coefficient: n-octanol/water	No data available
p) Auto-ignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	Not applicable
s) Explosive properties	No data available
t) Oxidising properties	No data available

9.2. Other information

No data available

SECTION 10 STABILITY AND REACTIVITY

10.1 Reactivity

The substance does not present additional dangers of reactivity than those reported in the next subtitles.

10.2 Chemical stability

The substance is stable in normal conditions of temperature and pressure. Store away from all heat sources, including direct sunlight, open flame, sources of ignition and sparks.

10.3 Possibility of hazardous reactions

Product does not polymerise.

10.4 Conditions to avoid

Heat, flames, source of ignition, and static electricity.

10.5 Incompatible materials

Store separately from oxidizing agents.

10.6 Hazardous decomposition products

When heated or in the event of a fire, vapors may be harmful to health: Carbon oxides (CO_x).

SECTION 11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Signs and Symptoms of Exposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

CLASS OF RELEVANT RISK FOR SUBSTANCE:

a) Acute toxicity:	Not reported evidence concerning this effect
b) Skin corrosion / irritation:	May cause skin irritation.
c) Serious eye damage / serious eye irritation:	May cause eye irritation.
d) Respiratory / skin sensitization:	Not reported evidence concerning this effect
e) Germ cell mutagenicity	Not reported evidence concerning this effect
f) Carcinogenicity	Not reported evidence concerning this effect
g) Reproductive toxicity:	Not reported evidence concerning this effect
h) Specific target organ toxicity (STOT)-Single exposure-	The product may cause mild irritation of the mucous membranes and upper respiratory tract
h) Specific target organ toxicity (STOT)-Repeated exposure-	Not reported evidence concerning this effect
j) Aspiration hazard	Not applicable
Other information	

SECTION 12 ECOLOGICAL INFORMATION

Ecological Information: Use according to good manufacturing practices, avoid dispersion into the environment. Notify relevant authorities according to all applicable regulations if the product can reach waterways or sewers or contaminate soil or vegetation.

12.1 Toxicity

Not reported evidence concerning this effect

12.2 Persistence and degradability

Not reported evidence concerning this outcome

12.3 Bioaccumulative potential

Not reported evidence concerning this outcome

12.4 Mobility in soil

Not reported evidence concerning this outcome

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

No data available

SECTION 13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Prevent environmental discharge.
Dispose of waste or used sacks/containers according to local regulations.

SECTION 14 TRANSPORT INFORMATION

The substance is not considered dangerous within the meaning of the regulations governing the transport of dangerous goods by road (ADR), rail (RID), sea (IMDG Code) and by air (IATA/ICAO).

SECTION 15 REGULATORY INFORMATION

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

Authorizations according to REACH Regulation: the substance is not subjected

Restrictions according to REACH Regulation: the substance is not subjected

Other UE:

The substance is not dangerous under the Seveso Regulation (Dir. 96/82/CE and f.a.)

15.2 Chemical Safety Assessment

A chemical safety assessment has not been carried out for this product.

SECTION 16**OTHER INFORMATION***List of relevant phrases*

Classification according to Regulation (EC) No 1272/2008 (CLP/GHS) as amended

H315 : Causes skin irritation

H319 : Causes serious eye irritation

H335 : May cause respiratory irritation

Classification according to European Directive 67/548/CEE as amended

R36/37/38: Irritating to eyes, respiratory system and skin

Guidelines for the formation

Workers potentially exposed to this substance must be trained adequately on the basis of the contents of this MSDS.

More information

No data available

Bibliography

BANCA DATI SOSTANZE CHIMICHE - ICARO S.R.L. - CORTONA (AR)

Internal MSDS.

Update Reason

Update according to Annex I of Regulation UE453/2010 which amended Annex II of EC Regulation 1907/2006 (REACH).

Revision: 00 – Revision date: 26.08.2011

The contained information is based upon our current understanding. It is applicable only to the indicated product and does not constitute any guarantee of the properties of the product. The user is responsible to ensure his or her own fitness and completeness of such information in relation to the specific use. The contained information is intended for the use of the product exclusively by appropriately qualified personnel. STERLING S.r.l. shall not be held liable for any damages caused from handling or from contact with the substance.

STERLING S.r.l.