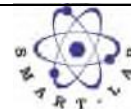


MATERIAL SAFETY DATA SHEET
According to regulation (EU) no.1907/2006

**XYLENOL ORANGE INDICATOR (TETRASODIUM SALT)**

Revision : 01

Date: May 8th, 2022

MSDS Number : 261

Section 1 - Chemical Product and Company Identification

- 1.1 Product Name** : **XYLENOL ORANGE INDIKATOR (TETRASODIUM SALT)**
Synonyms : Xylenol Orange Indicator, 3,3"-Bis[bis(carboxymethyl)aminoethyl] cresol sulfone phtrane sodium salt
CAS No. : 3618-43-7
HS Code : 2934 99 00
Chemical Formula : $C_{31}H_{28}N_2Na_4O_{13}S$
Molecular Weight : 760.59 g/mol
Product Code : A-2076
Brand : SMART-LAB
- 1.2 Manufacturer** : **PT.Smart-Lab Indonesia**
Address : Ruko Boulevard Taman Tekno Blok E No. 9-11, BSD Serpong, Tangerang - Indonesia
Website : www.smartlabid.com
Email : sales@smartlabid.com
For information : Telp: +62 21- 7588 0205(Hunting), fax: +62-21-7588 0198
Emergency Telephone: +62-21-7588 0205(Hunting)
- 1.3 Application** : General Chemical reagent

Section 2 - Hazards Identification

- 2.1 Classification of the substance or mixture**
Classification according to Regulation (EC) No 1272/2008
 Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.
- 2.2 Label elements**
 Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.
- 2.3 Other hazards**
 none

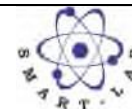
Section 3 - Composition, Information on Ingredients

- 3.1 Substances**
Synonyms : Xylenol Orange Indicator, 3,3"-Bis[bis(carboxymethyl)aminoethyl] cresol sulfone phtrane sodium salt
Formula : $C_{31}H_{28}N_2Na_4O_{13}S$
Molecular weight : 760.59 g/mol
CAS-No. : 3618-43-7
EC-No. : 222-805-8
Index-No. : -
- 3.2 Mixture**
 No components need to be disclosed according to the applicable regulations.

Section 4 - First Aid Measures

MATERIAL SAFETY DATA SHEET

According to regulation (EU) no.1907/2006

**XYLENOL ORANGE INDICATOR (TETRASODIUM SALT)**

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4.1 Description of first aid measures**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact

Wash off with soap and plenty of water.

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.

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

Section 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

Carbon oxides, Nitrogen oxides (NO_x), Sulphur oxides, Sodium oxides

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapours, mist or gas. For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

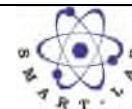
6.4 Reference to other sections

For disposal see section 13.

Section 7 - Handling and Storage

MATERIAL SAFETY DATA SHEET

According to regulation (EU) no.1907/2006

**XYLENOL ORANGE INDICATOR (TETRASODIUM SALT)**

Revision : 01

Date: May 8th, 2022

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7.1 Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Storage class (TRGS 510): Non Combustible Solids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

Section 8 - Exposure Controls, Personal Protection

8.1 Control parameters**8.2 Exposure controls****Appropriate engineering controls**

General industrial hygiene practice.

Personal protective equipment**Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

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 use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection

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.

Respiratory protection

Respiratory protection is not required. Where protection from nuisance level (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

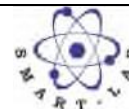
Do not let product enter drains.

Section 9 - Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance	Form: solid
Odour	No data available
Odour Threshold	No data available
pH	No data available
Melting point/freezingpoint	Melting point/range: 195 °C

MATERIAL SAFETY DATA SHEET
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**XYLENOL ORANGE INDICATOR (TETRASODIUM SALT)**

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Date: May 8th, 2022

MSDS Number : 261

Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Water solubility	No data available
Partition coefficient: noctanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available

9.2 Other safety information

No data available

Section 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

acids, Bases, Oxidizing agents

10.6 Hazardous decomposition products

In the event of fire: see section 5

Section 11 - Toxicological Information

11.1 Information on toxicological effects**Acute toxicity**

No data available

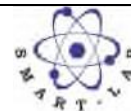
Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

MATERIAL SAFETY DATA SHEET
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Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Additional Information

RTECS: Not available

Section 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


Section 13 - Disposal Considerations

13.1 Waste treatment methods**Product**

Dispose of as unused product.

Contaminated packaging

Dispose of as unused product.

MATERIAL SAFETY DATA SHEET		
According to regulation (EU) no.1907/2006		
XYLENOL ORANGE INDICATOR (TETRASODIUM SALT)		
Revision : 01	Date: May 8th, 2022	MSDS Number : 261

Section 14 - Transport Information

14.1 UN number

ADR/RID: - IMDG: - IATA: -

14.2 UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

14.4 Packaging group

ADR/RID: - IMDG:- IATA: -

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user

No data available

Section 15 - Regulatory Information

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

Section 16 - Additional Information

National Fire Protection Association (U.S.A.):

Health: 1

Flammability: 0

Reactivity: 0

Revision history :

Date	Rev	Description
14 Dec 2016	00	-
8 May 22	01	thorough revision

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. PT. Smartlab Indonesia shall not be held liable for any damage resulting from handling or from contact with the above product.