

Material Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



31430 Syton® X 30

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Revised edition: 17.02.2016

Version: 3.1

Printed: 19.02.2016

1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1. Product Identifier

Product Name: Syton® X 30

Article No.: 31430

1.2. Relevant identified Uses of the Substance or Mixture and Uses advised against

Identified uses:

Reagent for analysis

Uses advised against:

1.3. Details of the Supplier of the Safety Data Sheet (Producer/Importer)

Company: Kremer Pigmente GmbH & Co. KG

Address: Hauptstr. 41-47, 88317 Aichstetten, Germany

Tel./Fax.: Tel +49 7565 914480, Fax +49 7565 1606

Internet: www.kremer-pigmente.de

E-Mail: info@kremer-pigmente.de

Importer: --

1.4. Emergency No.

Emergency No.: +49 7565 914480 (Mon-Fri 8:00 - 17:00)

2. Hazards Identification

2.1. Classification of the Substance or Mixture

Classification according to EC Regulation 1272/2008

This product does not require classification and labelling as hazardous according to CLP/GHS.

Classification according to EC Regulation No. 67/548 or No. 1999/45

The material is not subject to classification according to EC lists.

Safety Phrases:

Possible Environmental Effects:

2.2. Label Elements

Classification according to EC Regulation 1272/2008

This product does not require classification and labelling as hazardous according to CLP/GHS.

Hazard designation:

Not applicable.

Signal word:

Hazard designation:

Safety designation:

Hazardous components for labelling:

Other Hazards

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2.3. *No special hazards known.*

3. Composition/Information on Ingredients

3.1. Substance

3.2. Mixture

Chemical Characterization: *Aqueous preparation.*

Hazardous Ingredients:

Silicon dioxide, SiO ₂ (CAS 7631-86-9, old); REACH Reg-No. 01-2119379499-16-0000	10-25 %	CAS-Nr: 112926-00-8 EINECS-Nr: 231-545-4 EC-Nr:
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Additional information:

4. First Aid Measures

4.1. Description of the First Aid Measures

General information:

Seek medical attention in case of complaints.

After inhalation:

Supply fresh air. Consult physician if symptoms persist.

After skin contact:

Remove contaminated clothing. Wash off immediately with plenty of water and soap.

If irritation continues consult a physician.

After eye contact:

Rinse open eyes with plenty of water for at least 15 minutes.

After ingestion:

Rinse mouth with plenty of water and consult physician.

Never give anything by mouth to an unconscious person.

4.2. Most important Symptoms and Effects, both Acute and Delayed

Symptoms:

None known.

Effects:

4.3. Indication of any Immediate Medical Attention and special Treatment needed

Treatment:

No further information available.

5. Fire-Fighting Measures

5.1. Extinguishing Media

Suitable extinguishing media:

All extinguishing agents suitable.

Use extinguishing media for surrounding fire.

Unsuitable extinguishing media:

None known.

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5.2. Special Hazards arising from the Substance or Mixture

Special hazards:

Product is not flammable.

No special hazards.

5.3. Advice for Firefighters

Protective equipment:

Wear suitable protective clothing.

Further information:

Avoid contamination of sewage system, open water ways and ground water.

Contaminated extinguishing water and debris should be disposed of according to local regulations.

Collect contaminated extinguishing water and debris separately; avoid contamination of sewage system.

6. Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions:

Wear protective clothing.

6.2. Environmental Precautions

Environmental precautions:

Prevent contamination of soils, drains and surface water.

6.3. Methods and Material for Containment and Cleaning Up

Methods and material:

Contain with absorbent material (e.g. sand, acid binder, universal binder, sawdust) and collect in appropriate containers for disposal.

6.4. Reference to other Sections

Dispose of contaminated material according to Section 13.

7. Handling and Storage

7.1. Precautions for Safe Handling

Instructions on safe handling:

No special measures necessary if properly handled.

Provide adequate ventilation.

Hygienic measures:

Keep away from foodstuffs and drinks. Do not eat, drink or smoke during work. Wash hands before breaks and at the end of work.

7.2. Conditions for Safe Storage, including any Incompatibilities

Storage conditions:

Protect from frost.

Protect against overheating.

Do not store together with food stuff and animal feed.

Store between 2-40°C.

Requirements for storage areas and containers:

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Close open containers with care and store in an upright position to avoid spilling.

Information on fire and explosion protection:

No special measures necessary.

Storage class (VCI):

10-13

Further Information:

7.3. Specific End Use(s)

Further information:

8. Exposure Controls/Personal Protection

8.1. Parameters to be Controlled

Parameters to be controlled (DE):

TRGS 900

Silicon dioxide, CAS 112926-00-8 (7631-86-9), TWA-Value: 4 mg/m³ (inhalable dust fraction)

Pregnancy group Y

Parameters to be controlled:

Derived No-Effect Level (DNEL):

Silicium dioxide: 4 mg/m³ (worker, inhalation, long-term exposition - systemic)

Predicted No-Effect Concentration (PNEC):

Additional Information:

8.2. Exposure Controls

Technical protective measures:

Personal Protection

General protective measures:

Keep away from foodstuffs and drinks. Do not eat, drink or smoke during work. Wash hands before breaks and at the end of work.

Do not inhale vapor/dust.

Respiratory protection:

Wear protective mask, particle filter P2 or FFP2 or NIOSH N95 (for solid and liquid particles, EN 143, 149) if dust occurs.

Hand protection:

In case of prolonged contact:

Protective gloves (EN 374)

Protective glove material:

Nitrile rubber (480 min, 0.35 mm)

Butyl rubber (480 min; > 0.35 mm)

Please note the manufacturers' detailed statements, especially about the minimum thickness and the minimum breakthrough time.

Eye protection:

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Safety glasses with protective shields (EN 166).

Body protection:

Protective clothing, chemical resistant.

Environmental precautions:

9. Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

<i>Form:</i>	<i>liquid</i>
<i>Color:</i>	<i>clear</i>
<i>Odor:</i>	<i>odorless</i>
<i>Odor threshold:</i>	<i>No information available.</i>
<i>pH-Value:</i>	<i>9.2 - 10.4 (25°C)</i>
<i>Melting temperature:</i>	<i>0°C</i>
<i>Boiling temperature:</i>	<i>100°C</i>
<i>Flash point:</i>	<i>not applicable</i>
<i>Evaporation rate:</i>	<i>No information available.</i>
<i>Flammability (solid, gas):</i>	<i>not applicable</i>
<i>Upper explosion limit:</i>	<i>no information available</i>
<i>Lower explosion limit:</i>	<i>no information available</i>
<i>Vapor pressure:</i>	<i>23 hPa (25°C)</i>
<i>Vapor density:</i>	<i>No information available.</i>
<i>Density:</i>	<i>1.10 - 1.30 g/cm³ (20°C)</i>
<i>Solubility in water:</i>	<i>miscible</i>
<i>Coefficient of variation (n-Octanol/Water):</i>	<i>no information available</i>
<i>Auto-ignition temperature:</i>	<i>not applicable</i>
<i>Decomposition temperature:</i>	<i>No data available.</i>
<i>Viscosity, dynamic:</i>	<i>20 mPa.s (25°C)</i>
<i>Explosive properties:</i>	<i>not applicable</i>

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Oxidizing properties:

No information available.

Bulk density:

not determined

9.2. Further Information

Solubility in solvents:

Viscosity, kinematic

Burning class:

Solvent content:

Solid content:

Particle size:

Other information:

10. Stability and Reactivity

10.1. Reactivity

Stable if used according to specifications.

10.2. Chemical Stability

No decomposition if used according to specifications.

10.3. Possibility of Hazardous Reactions

No information available.

10.4. Conditions to Avoid

Conditions to avoid:

Protect from frost.

Protect from heat.

Thermal decomposition:

No further information available.

10.5. Incompatible Materials

No information available.

10.6. Hazardous Decomposition Products

None known.

10.7. Further Information

11. Toxicological Information

11.1. Information on Toxicological Effects

Acute Toxicity

LD50, oral:

Silicium dioxide (112926-00-8; old 7631-86-9): 5000 mg/kg (rat; OECD 401)

LD50, dermal:

Silicium dioxide (112926-00-8; old 7631-86-9): > 2000 mg/kg (rabbit; OECD 402)

LC50, inhalation:

Silicium dioxide (112926-00-8; old 7631-86-9): 0.14 mg/l (4h, rat)

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OECD 403)

Primary effects

Irritant effect on skin:

Non irritating (rabbit; OECD 404)

Irritant effect on eyes:

Non-irritating to eyes (rabbit; OECD 405)

Inhalation:

No information available.

Ingestion:

No information available

Sensitization:

No information available.

Mutagenicity:

Not mutagenic.

Reproductive toxicity:

No negative effects.

Cancerogenity:

No negative effects.

Teratogenicity:

No information available.

Specific target organ toxicity (STOT):

Single exposure: no information available.

Repeated exposure: Oral: no negative effects (rat; OECD 408);

Inhalation: no negative effects (rat; OECD 413)

Additional toxicological information:

Aspiration hazard: not applicable

12. Ecological Information

12.1. Aquatic Toxicity

Fish toxicity:

No data available.

Daphnia toxicity:

No information available.

Bacteria toxicity:

No data available.

Algae toxicity:

No information available.

12.2. Persistency and Degradability

No information available.

12.3. Bioaccumulation

No information available.

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12. 4. Mobility

No information available.

12. 5. Results of PBT- und vPvP Assessment

The contents of the preparation do not comply with the criteria for the classification as PBT or vPvB.

12. 6. Other Adverse Effects

Water hazard class:

Not hazardous.

Behaviour in sewage systems:

Further ecological effects:

Avoid subsoil penetration. Prevent product from entering drains. Do not contaminate surface water.

AOX Value:

13. Disposal Considerations

13. 1. Waste Treatment Methods

Product:

Dispose of according to official national and local regulations.

European Waste Code (EWC):

The waste code must be determined together with the regional disposal service.

Uncleaned packaging:

Uncontaminated packaging may be recycled. Completely empty packaging can be disposed of with the regular waste.

Dispose of according to official local regulations.

Waste Code No.:

14. Transport Information

14. 1. UN Number

ADR, IMDG, IATA

14. 2. UN Proper Shipping Name

ADR/RID:

No hazardous goods according to ADR (land transportation).

IMDG/IATA:

No hazardous goods according to IMDG.

14. 3. Transport Hazard Classes

ADR Class:

not applicable

Hazard no.:

Classification code:

Tunnel no.:

IMDG Class (sea):

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Hazard no.:

EmS No.:

IATA Class:

not applicable

Hazard no.:

14. 4. Packaging Group

ADR/RID:

not applicable

IMDG:

IATA:

14. 5. Environmental Hazards

None

14. 6. Special Precautions for User

Not classified as a dangerous good under transport regulations.

14. 7. Transportation in Bulk according to Annex II of MARPOL 73/78 and IBC-Code

not applicable

14. 8. Further Information

15. Regulatory Information

15. 1. Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

Water hazard class:

0, not hazardous

Local regulations on chemical accidents:

Employment restrictions:

Restriction and prohibition of application:

EC. REACH, Section XVII, Restrictions on the Manufacture, Placing on the Market and Use of Certain Dangerous Substances, Preparations and Articles: not applicable

Technical instructions on air quality:

15. 2. Chemical Safety Assessment

This product contains substances for which a Chemical Safety Assessment has been carried out.

EC SVHC-List: This product does not contain a substance in the candidate list for substances of very high concern (REACH Regulation (EC) 1907/2006, Article 57)

15. 3. Further Information

EC. REACH, Annex XIV, Candidate List of Substances of very High Concern (SVHC): not regulated / not applicable

16. Other Information

This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations. This information contained herein is based on the present state of knowledge and is intended to describe our product from the point of view of safety requirements. It should be

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therefore not be construed as guaranteeing specific properties.