

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product identifier: Tinopal DMA-X

Relevant identified uses of the substance or mixture and uses advised against:

Relevant identified uses of the substance or mixture:

Industry sector: Detergents.

Type of use: Optical brighteners.

Company name: Nexchem Ltd
Unit 3 Barshaw Park
Leycroft Road
Leicester
LE4 1ET
Tel: 0116 2311130
24/7 Emergency Tel: 0800 246 1274
Email: sales@nexchem.co.uk

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Classification according CLP regulation (Regulation (EC) No. 1272/2008, as amended):

Not a hazardous substance or mixture.

Label elements:

Labelling according to CLP regulation (Regulation (EC) No. 1272/2008, as amended):

Not a hazardous substance or mixture.

Other hazards:

Potential dust explosion hazard.

No additional hazards are known except those derived from the labelling.

Contains no components identified as PBT or vPvB with a content $\geq 0,1\%$.

Contains no component identified as having Endocrine disrupting properties with a content $\geq 0,1\%$.

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3. COMPOSITION / INFORMATION ON INGREDIENTS

Mixtures:

Chemical characterisation:

Blend based on: Stilbene disulfonic acid derivative, anionic.

Hazardous ingredients:

Sodium Carbonate:

Concentration: $\geq 3\%$ - $< 10\%$

CAS Number: 497-19-8

EC Number: 207-838-8

Index Number: 011-005-00-2

REACH registration number: 01- 2119485498-19-XXXX

GHS classification EC:		
Eye irritation	Category 2	H319

Formaldehyde, reaction products with sulfonated 1, 1'-oxybis [methylbenzene], sodium salts:

Content (W/W): $\geq 1\%$ - $< 3\%$

CAS Number: 90387-57-8

GHS classification EC:		
Chronic aquatic toxicity	Category 3	H412

The text of the H-phrases is shown in section 16.

4. FIRST AID MEASURES

Description of first aid measures:

General information:

Remove contaminated clothing and shoes.

Ensure that the First Aid Personnel are aware of the product involved, and take precautions to protect themselves (e.g., wear personal protection equipment).

After inhalation:

If inhaled, remove to fresh air. Get medical advice/ attention.

After contact with skin:

In case of contact, immediately flush skin with plenty of water.

After contact with eyes:

In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

After ingestion:

If swallowed do not induce vomiting, seek medical advice and show safety datasheet or label.

Most important symptoms and effects, both acute and delayed:

Symptoms:

The possible symptoms known are those derived from the labelling (see section 2).

Hazards:

No additional hazards are known except those derived from the labelling.

Indication of any immediate medical attention and special treatment needed:

Treatment:

Treat symptomatically.

[cont...]

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5. FIRE-FIGHTING MEASURES

Extinguishing media:

Suitable extinguishing media: Dry powder.
Foam.

Extinguishing media that must not be used for safety reasons: Carbon dioxide (CO₂).

Special hazards arising from the substance or mixture:

In case of fire hazardous decomposition products may be produced such as:

May release toxic, irritating and/or corrosive gases.
Harmful vapours.
Nitrogen oxides (NO_x).
Sulphur oxides.
Carbon oxides.

Advice for fire-fighters:

Special protective equipment: Self-contained breathing apparatus.
Full protective suit.

Further information:

Cool endangered containers with water spray jet.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Do not disperse powdered product in air.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation.
Wear suitable protective equipment.
Keep away sources of ignition.

Environmental precautions:

Collect contaminated fire extinguishing water separately.
This must not be discharged into drains.
The product should not be allowed to enter drains, water courses or the soil.

Methods and material for containment and cleaning up:

Take up mechanically.
Avoid dust formation.
Take measures to prevent the build-up of electrostatic charge.
Risk of dust explosion.
Treat recovered material as described in the section "Disposal considerations".

Reference to other sections:

Additional information: Information regarding Safe handling, see chapter 7.
For Personal protection see section 8.
Information regarding Waste disposal, see chapter 13.

[cont...]

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7. HANDLING AND STORAGE

Precautions for safe handling:

Advice on safe handling:

Handle and open container with care.
Avoid dust formation.
Avoid dust accumulation in enclosed space.
Provide adequate ventilation.
Take measures to prevent the build-up of electrostatic charge.

Hygiene measures:

Wash hands before breaks and at the end of workday.
Use protective skin cream before handling the product.
Take off immediately all contaminated clothing and wash it before reuse.
Do not eat, drink or smoke when using this product.
Observe the usual precautions for handling chemicals.

Advice on protection against fire and explosion:

Dust can form an explosive mixture in air.
Keep away sources of ignition.
Take precautionary measures against build-up of electrostatic charges, e.g., earthing during loading and off-loading operations.
Observe the general rules of industrial fire protection.

Dust explosion class:

ST1- Capable of dust explosion.

Conditions for safe storage, including any incompatibilities:

Requirements for storage areas and containers:

Keep only in the original container.
Polyethylene containers.

Advice on storage compatibility:

Avoid storage near incompatible agents (see section 10).
Do not store or transport together with foodstuffs.

Further information on storage conditions:

Keep container tightly closed.
Keep away sources of ignition.

Specific end use(s):

No further recommendations.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:

Exposure limit values:

Dust:

Regulatory basis / Regulatory list	Revision	Type of value	Values	Remarks
UK. EH40 WEL – Workplace Exposure Limits UK OEL - EH40 WELs	17/10/2007	WEL_TWA:	4 mg/m3	

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DNEL/DMEL values: Sodium carbonate

EC number: 207-838-8

CAS number: 497-19-8

Route of exposure	Personnel	Exposure time/Effect	Value	Remarks
Inhalation	Workers	Long-term systemic effects		No hazard identified
Inhalation	Workers	Acute systemic effects		No hazard identified
Inhalation	Workers	Long-term local effects	10 mg/m ³	
Inhalation	Workers	Acute long effects		No hazard identified
Dermal	Workers	Long-term systemic effects		No hazard identified
Dermal	Workers	Acute systemic effects		No hazard identified
Dermal	Workers	Long-term local effects		No hazard identified
Dermal	Workers	Acute long effects		No hazard identified
Inhalation	Consumers	Long-term systemic effects		No hazard identified
Inhalation	Consumers	Acute systemic effects		No hazard identified
Inhalation	Consumers	Long-term local effects	5 mg/m ³	
Inhalation	Consumers	Acute long effects		No hazard identified
Dermal	Consumers	Long-term systemic effects		No hazard identified
Dermal	Consumers	Acute systemic effects		No hazard identified
Dermal	Consumers	Long-term local effects		No hazard identified
Dermal	Consumers	Acute long effects		No hazard identified
Oral	Consumers	Long-term systemic effects		No hazard identified
Oral	Consumers	Acute systemic effects		No hazard identified

PNEC values: Sodium carbonate

EC number: 207-838-8

CAS number: 497-19-8

Environmental compartment	Personnel/Exposure time/Effect	Value
Fresh water	No exposure expected	
Marine water	No exposure expected	
Sewage treatment plant	No exposure expected	
Fresh water sediment	No exposure expected	
Marine sediment	No exposure expected	
Air	No exposure expected	
Soil	No exposure expected	
Secondary Poisoning	Does not bioaccumulate	

Exposure controls:

Appropriate engineering controls:

Local ventilation recommended: Mechanical ventilation may be used.

General protective measures:

Observe the usual precautions for handling chemicals.

Ensure that eyewash stations and safety showers are close to the workstation location.

Avoid contact with skin and eyes.

Do not breathe dust.

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Respiratory protection:	Local ventilation to keep levels below established threshold values is recommended. In case of prolonged exposure to airborne dust concentrations, a suitable particle filter mask that complies with the requirements of national legislation is recommended, depending on the expected exposure levels.
Hand protection:	Chemical resistant gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
Eye protection:	Depending on the risk, wear sufficient eye protection (safety glasses with side protection or goggles, and if necessary, face shield.)
Body protection:	Wear suitable protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Physical state:	Solid
Form:	Granules
Colour:	Yellow
Odour:	Characteristic
Odour threshold:	Not available
Melting point:	>200°C
Boiling point:	Not available
Flammability:	Does not ignite
Lower explosion limit:	Not applicable
Upper explosion limit:	Not applicable
Flash point:	Not applicable
Ignition temperature:	>500°C
Thermal decomposition:	280°C
pH value:	8 - 10.5 (60°C, 5g/l)
Viscosity, kinematic:	Not applicable
Viscosity, dynamic:	Not applicable
Solubility in water:	> 5g/l (98°C) 1-2g/l (20°C) soluble

Octanol/water partition coefficient (log Pow): This property is not applicable for mixture

Vapour pressure:	Not applicable
Density:	1.54 g/cm ³ (22°C). Information refers to the main component.
Bulk density:	Not available
Relative density:	Approx. 1.54 (22°C)
Vapour density relative to air:	Not applicable
Particle size:	Not available

[cont...]

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Other information:

Explosion hazard:	Explosive according to transport regulation: Not explosive Method: Expert judgement
Oxidising properties:	Type of oxidizing effect: The substance or mixture is not classified as oxidising Method: Expert judgement
Corrosion of metals:	Not applicable
Evaporation rate:	Not applicable
Minimum ignition energy:	Not available
Surface tension:	Not applicable

10. STABILITY AND REACTIVITY

Reactivity: See section 10.3 (Possibility of hazardous reactions).

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: No dangerous reaction known under conditions of normal use.
Potential dust explosion hazard.
Stable.

Conditions to avoid: Keep away from heat.
Keep away from open flames, hot surfaces and sources of ignition.
Avoid electro-static charge.

Incompatible materials:

Substances to avoid: Strong oxidising agent.
Strong bases.
Strong acids.

Hazardous decomposition products: Carbon monoxide and Carbon dioxide.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Information related to the product itself:

Acute oral toxicity:	LD50 > 5,000 mg/kg (Rat) Method: OECD Test Guideline 401
Acute dermal toxicity:	Not available.
Acute inhalation toxicity:	Not available.
Irritant effect on skin:	No skin irritation. Method: OECD Test Guideline 404
Irritant effect on eyes:	Not available.
Sensitisation:	Not available.
Repeated dose toxicity:	Not available.
Genetic toxicity in vitro:	Not available.

[cont...]

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Carcinogenicity: Not available.
Developmental toxicity/teratogenicity: Not available.
Toxicity to reproduction/fertility: Not available.
Specific target organ toxicity (STOT) - single exposure: Not available.
Specific target organ toxicity (STOT) - repeated exposure: Not available.
Aspiration hazard: No data available.

Information related to the component: Sodium carbonate.

Acute oral toxicity: LD50 2,800 mg/kg (Rat).
Acute dermal toxicity: LD50 > 2,000 mg/kg (Rabbit).
Acute inhalation toxicity: LC50 2,300 mg/l (2 h, Rat).
Method: OECD Test Guideline 403.
Irritant effect on skin: No skin irritation.
Method: OECD Test Guideline 404.
Irritant effect on eyes: Irritating (Rabbit).
Method: OECD Test Guideline 405.
Sensitisation: Does not cause skin sensitisation.
Repeated dose toxicity: Repeated dose toxicity.
Route of application: Inhalation.
LOAEL: > 0.01 mg/l (Humans).

Genetic toxicity in vitro: Test type: Ames test.
Metabolic activation: with.
Result: Negative.
Method: OECD Test Guideline 471
Read-across (Analogy).
Test type: Chromosome aberration test in vitro.
Result: Negative.
Method : OECD Test Guideline 473

Information on other hazards:

Endocrine disrupting properties:

Information related to the product itself: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Other information:

Remarks: None.

[cont...]

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12. ECOLOGICAL INFORMATION

Toxicity:

Information related to the product itself:

Fish toxicity: LC50 > 100 mg/l (96 h).
Method: OECD Test Guideline 203.

Daphnia toxicity: EC50 > 100 mg/l (Daphnia magna (Water flea)).
Method: OECD Test Guideline 202.

Algae toxicity: EC50 (Growth rate) > 100 mg/l (72 h, Desmodesmus subspicatus (green algae)).
Method: OECD Test Guideline 201.
The details of the toxic effect relate to the nominal concentration.

Bacteria toxicity: EC50 > 100 mg/l (Pseudomonas putida).
Method: OECD Test Guideline 209.

Toxicity to soil-dwelling organisms: LC50 > 5,000 mg/kg (14 d, Eisenia fetida (earthworms)).
Method: OECD Test Guideline 207.

Information related to the component: Sodium Carbonate.

Fish toxicity: LC50 300 mg/l (96 h, Lepomis macrochirus (Bluegill sunfish))
LC50 320 mg/l (96 h, Lepomis macrochirus (Bluegill sunfish))
LC50 740 mg/l (96 h, Gambusia affinis (Mosquito fish))

Daphnia toxicity: EC50 200 mg/l (48 h, Daphnia magna (Water flea))

Persistence and degradability:

Information related to the product itself:

Physico-chemical eliminability: Not available.

Biodegradability: > 90 % (DOC decrease)
Method: OECD Test Guideline 302B.
The product can be eliminated from water by abiotic processes, e.g., adsorption on activated sludge.

Chemical oxygen demand (COD): 890 mg/g

Biochemical oxygen demand (BOD5): 0 mg/g 5 d

Bioaccumulative potential:

Information related to the product itself:

Bioaccumulation: No information is available on the mixture "as is".
If relevant information is available on the substances listed in Chapter 3, it is reported here.

[cont...]

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Mobility in soil:

Information related to the product itself:

Transport and distribution between environmental compartments: Volatility.

The substance does not evaporate into the atmosphere from the surface of water.

Adsorption/Soil.

After release, adsorbs onto soil.

Behaviour in environmental compartments: This material does neither contain nor was it manufactured using ozone-depleting chemicals.

Results of PBT and vPvB assessment:

Information related to the product itself: No information is available on the mixture "as is".

If relevant information is available on the substances listed in Chapter 3, it is reported here.

Endocrine disrupting properties:

Information related to the product itself: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Other adverse effects:

Information related to the product itself:

Additional ecotoxicological remarks: The product should not be allowed to enter drains, water courses or the soil.

Avoid release to the environment.

Product does not contain any organic bound Halogens which could lead to AOX-values.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

Product:

Product should be taken to a suitable and authorized waste disposal site in accordance with relevant regulations and if necessary, after consultation with the waste disposal operator and/or the competent Authorities.

Uncleaned packaging:

Packaging that cannot be cleaned should be disposed of as product waste.

14. TRANSPORT INFORMATION

Section 14.1. to 14.5:

ADR: Not restricted.

ADN: Not restricted.

RID: Not restricted.

IATA: Not restricted.

IMDG: Not restricted.

Special precautions for user: See sections 6 to 8 of this Safety Data Sheet.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code (International Bulk Chemicals Code):

No transport as bulk according to IBC - Code.

[cont...]

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15. REGULATORY INFORMATION

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

Other regulations: Apart from the data/regulations specified in this chapter, no further information is available concerning safety, health and environmental protection.

Chemical safety assessment: Chemical Safety Assessments (CSAs) are available for one or more of the component substances contained in this product, depending on the tonnage band of our dossier.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Observe national and local legal requirements:

List of the text of the hazard statements mentioned section 3 (H-phrases):

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

Legend:

ADN European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.

ADR European Agreement concerning the International Carriage of Dangerous Goods by Road.

AOX Adsorbable organic bound halogens.

CAS Chemical Abstracts Service.

DMEL Derived Minimal Effect Level (genotoxic substances).

DNEL Derived No Effect Level.

EC50 Half maximal effective concentration.

GHS Globally Harmonized System.

IATA International Air Transport Association.

IMDG International Maritime Dangerous Goods.

LC50 Lethal Concentration 50%.

LD50 Lethal Dose 50%.

MARPOL International Convention for the Prevention of Pollution From Ships.

NOAEC No Observed Adverse Effect Concentration.

NOAEL No Observed Adverse Effect Level.

NOEC Non-Observed Effect Concentration.

OEL Occupational Exposure Limit.

PBT Persistent, Bioaccumulative, Toxic.

PEC Predicted Environmental Concentration.

PNEC Predicted No Effect Concentration.

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals.

RID International Rule for Transport of Dangerous Substances by Railway.

SVHC Substances of Very High Concern.

vPvB very Persistent and very Bioaccumulative.

[cont...]

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Legal disclaimer:

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