

# Safety data sheet

according to Regulation (EC) No.1907/2006 (REACH)

Trade name: TW Master cleaning compound B

Revision:	-	Date of compilation:	10.07.2024
Version:	1 en	Replaces version of:	-

## Section 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Identification of the substance:	TW Master cleaning compound B
Registration number (REACH):	This substance is exempted under Article 2(7) and Annex V of REACH.
CAS number:	497-19-8

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses:	Compound B for the preparation of the cleaning solution for the TriOS TW Master cleaning system.
Uses advised against:	Do not use for private purposes (household).

### 1.3 Details of the supplier of the safety data sheet

Supplier:	TriOS Mess- und Datentechnik GmbH
Address:	Bürgermeister-Brötje-Straße 25, 26180 Rastede, Germany
Telephone:	+49 (0) 4402 69670-0
Fax:	+49 (0) 4402 69670-20
E-Mail:	safety@trios.de
Website:	www.trios.de

### Competent person responsible for the safety data sheet:

E-Mail:	safety@trios.de
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### 1.4 Emergency telephone number

Telephone number:	Giftinformationszentrum Nord (Germany) +49 551-19240
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## Section 2: Hazards identification

### 2.1 Classification of the substance or mixture

This mixture is classified according to Regulation (EC) No 1272/2008 as follows:

Eye Irrit. 2, H319: Serious eye damage/eye irritation, Category 2

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## 2.2 Label elements

Hazard pictograms:

GHS07



Signal word:

Warning

Hazard statements:

H319: Causes serious eye irritation

Safety instructions:

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313: If eye irritation persists: Get medical advice/attention

## 2.3 Other hazards

There is no additional information available.

## Section 3: Composition/information on ingredients

### 3.1 Substances

Name of substance:

Sodium carbonate

Molecular formula:

Na<sub>2</sub>CO<sub>3</sub>

Molar mass:

106 g/mol

CAS No:

497-19-8

EC No:

207-838-8

## Section 4: First aid measures

### 4.1 Description of first aid measures

General notes:

Remove contaminated clothing.

Following inhalation:

Provide fresh air. In all cases of doubt, or when symptoms persist, take medical advice.

Following skin contact:

Rinse skin with water/shower.

Following eye contact:

Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. In case of eye irritation consult an ophthalmologist.

Following ingestion:

Rinse mouth. Take medical advice/assistance if you feel unwell.

### 4.2 Most important symptoms and effects, both acute and delayed

Irritation

### 4.3 Indication of any immediate medical attention and special treatment needed

No information available.

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## Section 5: Firefighting measures

### 5.1 Extinguishing media:

**Suitable extinguishing media:** Adapt the extinguishing measures to the surrounding area.  
water, foam, alcohol resistant foam, dry extinguishing powder,  
ABC-powder

**Unsuitable extinguishing media:** water in full jet

### 5.2 Special hazards arising from the substance or mixture

The substance is not flammable.

In case of fire may be liberated: Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

## Section 6: Accidental release measure

### 6.1 Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel:** Use personal protective equipment as required. Avoid contact with skin, eyes and clothes. Do not breathe dust.

**Operational forces:** Protective equipment see section 8.

### 6.2 Environmental precautions

Keep the compound away from drains, surface and ground water.

### 6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid binders, universal binders, sawdust) and place in suitable container for disposal. Control of dust.

### 6.4 Reference to other sections

Information about safe handling, see section 7.

Personal protective equipment, see section 8.

Disposal considerations, see section 13.

## Section 7: Handling and storage

### 7.1 Precautions for safe handling

When diluting/dissolving, always have the water ready first, then slowly stir in the product.

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs.

Avoid dust formation.

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## 7.2 Conditions for safe storage, including any incompatibilities

Information on the storage condition:

Keep container tightly closed. Store in a dry place.

Requirements for storage rooms and containers:

Recommended storage temperature 15-25 °C

Storage class:

13 (non-flammable solids)

## 7.3 Specific end use(s)

This mixture is used for the preparation of the cleaning solution for the TriOS TW Master cleaning system.

## Section 8: Exposure controls/personal protection

### 8.1 Control parameters

#### National limit values (Germany)

Occupational exposure limit value (Workplace limit values):

Substance	SMW [mg/m <sup>3</sup> ]	KZW [mg/m <sup>3</sup> ]	remark	Data Source
General dust limit value, respirable fraction	1,25	2,5	Y	TRGS 900
General dust limit value, inhalable fraction	10	20	Y	TRGS 900

#### Note

**KZW** (=Kurzzeitwert; Limit value for short-term exposure): Limit value based on a duration of 15 minutes that should not be exceeded.(unless otherwise specified).

**SMW** (Schichtmittelwert; Limit value for long-term exposure): Time-weighted average, measured or calculated for a reference period of eight hours (unless otherwise specified).

**Y:** The substance is not teratogenic; if you work within the occupational exposure limit value and the biological limit value (BGW).

#### Human health values:

##### Relevant DNEL and other threshold levels

Endpoint	threshold level	Route of exposure	Effects on health
DNEL	10 mg/m <sup>3</sup>	Long-term inhalation exposure	Local effects

### 8.2 Exposure controls

Suitable technical control device

Not required

Individual protection measures (personal protective equipment)

Eye/face protection: Use safety goggles with side protection.

Hand protection: Wear suitable protective gloves. A chemical glove tested in accordance with EN 374 is suitable.

Respiratory protection: Respiratory protection is required in case of dust formation. Particulate filter device (EN 143). P1 (filters at least 80 % of airborne particles, colour code: White).

Limitation and monitoring of environmental exposure:

Keep away from drains, surface and ground water.

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## Section 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state:	Solid
Form:	Powder
Colour:	White
Odour:	Odourless
Melting point/Freezing point:	851°C
Boiling point or initial boiling point and boiling range:	Not determined.
Flammability:	non-flammable
Lower and upper explosion limits:	Not determined.
Flash point:	Not applicable.
Auto-ignition temperature:	> 400 °C
Decomposition temperature:	Not determined.
pH value:	12 (in aqueous solution: 106 g/L, 25 °C)
Kinematic viscosity:	Not relevant.
Solubility:	217 g/L at 20 °C
Partition coefficient: n-octanol/water:	Not relevant.
Vapour pressure:	Not relevant.
Density:	2,532 g/cm <sup>3</sup> at 20°C
Relative vapour density:	Not determined.
Particle characteristics:	Not determined.

### 9.2 Other Information

No data available.

## Section 10: Stability and reactivity

### 10.1 Reactivity

This material is not reactive under normal ambient conditions.

### 10.2 Chemical stability

The product is stable under normal ambient conditions (room temperature).

### 10.3 Possibility of hazardous reactions

Violent reaction with: Alkali metals, Alkaline earth metal, Nitro compound, Sulphuric acid, Strong acid

### 10.4 Conditions to avoid

Humidity. Keep away from heat. Decomposition takes place from temperatures above: >400 °C.

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## 10.5 Incompatible materials

aluminium, zinc, light metals

## 10.6 Hazardous decomposition products

In case of fire, see section 5.

## Section 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity:

Is not to be classified as acutely toxic.

Exposure route	Endpoint	Value	Species
dermal	LD50	>2.000 mg/kg	Rabbit
oral	LD50	2.800 mg/kg	Rat

Skin corrosion/irritation:

Is not to be classified as corrosive/irritant to skin.

Serious eye damage/ Eye irritation:

Is not to be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation:

Is not to be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity:

Is not to be classified as germ cell mutagenic.

Carcinogenicity:

Is not to be classified as carcinogenic.

Reproductive toxicity:

Is not to be classified as a reproductive toxicant.

Specific target organ toxicity (single exposure):

Is not to be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity (repeated exposure):

Is not to be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard:

Is not to be classified as presenting an aspiration hazard.

### 11.2 Information about other hazards

There is no other information available.

## Section 12: Ecological information

### 12.1 Toxicity

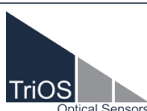
According to 1272/2008/EC: Is not to be classified as hazardous to the aquatic environment

Aquatic toxicity (acute):

Endpoint	Value	Species	Exposure time
LC50	300 mg/L	Fish	96 h
LC50	565 mg/L	Crustaceans	48 h
EC50	200 mg/L	Crustaceans	48 h

### 12.2 Persistence and degradability

No information available.



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## 12.3 Bioaccumulative potential

No data available.

## 12.4 Mobility in soil

No data available.

## 12.5 Results of PBT and vPvB assessment

No data available.

## 12.6 Endocrine disrupting properties

Not listed.

## 12.7 Other adverse effects

No data available.

## Section 13: Disposal considerations

### 13.1 Waste treatment methods

Contact the responsible local authorities regarding waste disposal. Do not allow to enter drains.

## Section 14: Transport information

### 14.1 UN number or ID number

Not subject to transport regulations.

### 14.2 UN proper shipping name

Not assigned.

### 14.3 Transport hazard class(es)

None.

The product is not hazardous, according to the regulations in force in the field of road transport of dangerous goods (ADR), by rail (RID), by sea (IMDG Code) and by air (IATA).

### 14.4 Packing group

Not assigned.

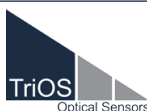
### 14.5 Environmental hazards

Non-environmentally hazardous acc. to the dangerous goods regulations.

### 14.6 Special precautions for user

There is no additional information.

### 14.7 Maritime transport in bulk according to IMO instruments



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Not applicable.

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## Section 15: Regulatory information

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

Relevant provisions of the European Union (EU):

Restriction according to REACH, Annex XVII: Restriction 75.

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National inventories:

Follow national regulation for work with chemical agents.

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Germany:

Water hazard class (WGK): 1 (slightly hazardous to water)

Storage class (LGK) according to TRGS 510: 13 (non-flammable solids)

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### 15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance.

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## Section 16: Other information

Changes made (revised safety data sheet):

No changes have been made yet.

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### Abbreviations and acronyms:

ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways).
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road).
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances).
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.
DGR	Dangerous Goods Regulations (see IATA/DGR).
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (eg on growth) during a specified time interval.
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union).
EINECS	European Inventory of Existing Commercial Chemical Substances.
ELINCS	European List of Notified Chemical Substances.
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods Code
KZW	Kurzzeitwert; Limit value for short-term exposure
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval.
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval.
LGK	Storage class according to TRGS 510, Germany
PBT	Persistent, Bioaccumulative and Toxic.
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals.
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail).
SMW	Schichtmittelwert; Limit value for long-term exposure
TRGS	Technische Regeln für Gefahrstoffe; Germany (Technical Rules for Hazardous Substances).
vPvB	Very Persistent and very Bioaccumulative.

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## Wichtige Literatur und Datenquellen:

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

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

Regulations concerning the International Carriage of Dangerous Goods by Rail (RID).

International Maritime Dangerous Goods Code (IMDG).

Dangerous Goods Regulations (DGR) for the air transport (IATA).

Technical Rules for Hazardous Substances (TRGS)

GESTIS – Substance Database (Information system on hazardous substances of the German Social Accident Insurance)

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