

# Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))

## T50 - T50

Master item code: 50

Safety Data Sheet date: 29/12/2023, version 1

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

#### 1.1. Product identifier

Trade name: T50  
SDS code: T50  
UFI: QVPC-04NN-000R-3MTM

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

Recommended use:  
Corrosion inhibitors

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

##### Manufacturers:

BABBCO  
15, rue des Frères Lumière Z.I. des EBISOIRES 78370 PLAISIR (France)  
Tel: +33 (0)1.30.80.81.82  
www.babbco.fr

##### Distributors:

BabbCo-Socomore NDT Division  
BABBCO  
SHERWIN-BABBCO  
Tel: +33 (0)1.30.80.81.82  
www.babbco.fr

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

e-mail: [regulatoryservice@babbco.fr](mailto:regulatoryservice@babbco.fr)

#### 1.4. Emergency telephone number

France : ORFILA (INRS) +33 (0)1 45 42 59 59  
International : CHEMTEL +1-813-248-0585.

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### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### EC regulation criteria 1272/2008 (CLP)

The product is not classified as hazardous according to Regulation EC 1272/2008 (CLP).  
Adverse physicochemical, human health and environmental effects:  
No other hazards

#### 2.2. Label elements

The product is not classified as hazardous according to Regulation EC 1272/2008 (CLP).

Hazard pictograms:

None

Hazard statements:

None

Precautionary statements:

None

Special Provisions:

EUH210 Safety data sheet available on request.

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

#### 2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration  $\geq 0.1\%$

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### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

N.A.

#### 3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

| Qty               | Name                                | Ident. Number  | Classification  |
|-------------------|-------------------------------------|--|---|
| >= 0.25% - < 0.3% | 2,2'-iminodiethanol; diethanolamine | Index number: 603-071-00-1<br>CAS: 111-42-2<br>EC: 203-868-0<br>REACH No.: 01-21194889 30-28 |  3.7/2 Repr. 2 H361fd<br> 3.9/2 STOT RE 2 H373<br> 3.2/2 Skin Irrit. 2 H315<br> 3.3/1 Eye Dam. 1 H318<br> 3.1/4/Oral Acute Tox. 4 H302 |

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

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

In case of Ingestion:

Do not induce vomiting. Obtain a medical examination.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

None

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

Treatment:

No particular treatment.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media:

Foam.

Multipurpose powders class ABC

Water haze

Extinguishing media which must not be used for safety reasons:

Spray water

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

Carbon monoxide and carbon dioxide

#### 5.3. Advice for firefighters

Use Self-Contained Breathing Apparatus (SCBA) with chemical protection suit.

### SECTION 6: Accidental release measures

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

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

#### 6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

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

For cleaning up:

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Absorb spillage as quickly as possible using inert solids such as clay or diatomaceous earth. clay or diatomaceous earth. Store away from other materials. Wash soiled area with water

**6.4. Reference to other sections**

See also section 8 and 13

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**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Avoid contact with skin and eyes, inhalation of vapours and mists.

See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

Wash hands after use

**7.2. Conditions for safe storage, including any incompatibilities**

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

**7.3. Specific end use(s)**

None in particular

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**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**Occupational exposure limit values

2,2'-iminodiethanol; diethanolamine - CAS: 111-42-2

- OEL Type: ACGIH - TWA(8h): 1 mg/m<sup>3</sup> - Notes: (IFV), Skin, A3 - Liver and kidney dam

- OEL Type: National - TWA: 15 mg/m<sup>3</sup>, 3 ppm - Notes: France

- OEL Type: National - TWA(8h): 2 mg/m<sup>3</sup>, 0.46 ppm - Notes: Netherlands

- OEL Type: National - TWA(8h): 2 mg/m<sup>3</sup>, 0.46 ppm - Notes: Belgium

- OEL Type: National - TWA: 0.2 ppm - Notes: DOW IHG, skin

DNEL Exposure Limit Values

2,2'-iminodiethanol; diethanolamine - CAS: 111-42-2

Worker Industry: 1 mg/m<sup>3</sup> - Consumer: 0.25 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Industry: 0.13 mg/kg - Consumer: 0.07 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 0.06 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Consumer: 33 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

PNEC Exposure Limit Values

2,2'-iminodiethanol; diethanolamine - CAS: 111-42-2

Target: Fresh Water - Value: 0.0022 mg/l

Target: Marine water - Value: 0.00022 mg/l

Target: Freshwater sediments - Value: 0.019 mg/kg

Target: Marine water sediments - Value: 0.0019 mg/kg

Target: Soil (agricultural) - Value: 0.00108 mg/kg

Target: Microorganisms in sewage treatments - Value: 100 mg/l

Target: Sporadic discharge - Value: 0.022 mg/l

Biological Exposure Index

N.A.

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#### 8.2. Exposure controls

See below, example of PPE to use.

Eye protection:

Eye glasses with side protection.

Protection for skin:

Chemical protection clothing.

Protection for hands:

NR (natural rubber, natural latex).

Respiratory protection:

Mask with filter "A" , brown colour

Mask with filter "P" , white colour

Thermal Hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls:

None

Other conditions affecting workers exposure:

None

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

| Properties  | Value                  | Method: | Notes |
|---|------------------------|---------|-------|
| Physical state:   | Liquid                 | --      | --    |
| Colour:   | N.A.                   | --      | --    |
| Odour:  | N.A.                   | --      | --    |
| Melting point/freezing point:                             | N.A.                   | --      | --    |
| Boiling point or initial boiling point and boiling range: | >100°C                 | --      | --    |
| Flammability:   | N.A.                   | --      | --    |
| Lower and upper explosion limit:                          | N.A.                   | --      | --    |
| Flash point (°C):   | N.A.                   | --      | --    |
| Auto-ignition temperature:                                | 305°C                  | --      | --    |
| Decomposition temperature:                                | N.A.                   | --      | --    |
| pH:   | N.A.                   | --      | --    |
| Kinematic viscosity:                                      | N.A.                   | --      | --    |
| Solubility in water:                                      | N.A.                   | --      | --    |
| Solubility in oil:  | N.A.                   | --      | --    |
| Partition coefficient n-octanol/water (log value):        | N.A.                   | --      | --    |
| Vapour pressure:  | N.A.                   | --      | --    |
| Density and/or relative density:                          | 1.12 g/cm <sup>3</sup> | --      | --    |
| Relative vapour density:                                  | N.A.                   | --      | --    |
| Particle characteristics:                                 |                        |         |       |
| Particle size:  | N.A.                   | --      | --    |

#### 9.2. Other information

No other relevant information

Volatile Organic compounds - VOCs = 0 %

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N.A. = not available

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**SECTION 10: Stability and reactivity****10.1. Reactivity**

Stable under normal conditions

**10.2. Chemical stability**

Stable under normal conditions

**10.3. Possibility of hazardous reactions**

None

**10.4. Conditions to avoid**

Stable under normal conditions.

**10.5. Incompatible materials**

None in particular.

**10.6. Hazardous decomposition products**

None.

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**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Toxicological information of the product:

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Acute toxicity

Not classified

Based on available data, the classification criteria are not met

Skin corrosion/irritation

Not classified

Based on available data, the classification criteria are not met

Serious eye damage/irritation

Not classified

Based on available data, the classification criteria are not met

Respiratory or skin sensitisation

Not classified

Based on available data, the classification criteria are not met

Germ cell mutagenicity

Not classified

Based on available data, the classification criteria are not met

Carcinogenicity

Not classified

Based on available data, the classification criteria are not met

Reproductive toxicity

Not classified

Based on available data, the classification criteria are not met

STOT-single exposure

Not classified

Based on available data, the classification criteria are not met

STOT-repeated exposure

Not classified

Based on available data, the classification criteria are not met

Aspiration hazard

Not classified

Based on available data, the classification criteria are not met

Toxicological information of the main substances found in the product:

2,2'-iminodiethanol; diethanolamine - CAS: 111-42-2

Acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 1600 mg/kg

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Test: LD50 - Route: Skin - Species: Rabbit = 12.970 mg/kg

Test: LC0 - Route: Inhalation - Species: Rat = 0.2 mg/l - Duration: 8h

Carcinogenicity:

Test: NOAEL - Route: Skin - Species: Rat = 32 mg/kg bw/day - Notes: 103 weeks,

LOAEL = 40 mg/kg bw/jour

Reproductive toxicity:

Test: NOAEC - Species: Rat = 300 mg/kg bw/day - Notes: daily weeks, fertility

Test: NOAEC - Species: Rat = 150 mg/kg bw/day - Notes: 6-15 days, development

Test: NOAEL - Species: Rat = 50 mg/l - Notes: 6-15 days, development

**11.2. Information on other hazards**

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration  $\geq$  0.1%

Other toxicological information:

2,2'-iminodiethanol; diethanolamine

Skin corrosion / irritation (rabbit):

Irritating effect

Severe eye injury/irritation (rabbit):

Irreversible damage

May cause liver damage in case of prolonged or repeated exposures.

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**SECTION 12: Ecological information****12.1. Toxicity**

Adopt good working practices, so that the product is not released into the environment.

T50

Not classified for environmental hazards

Based on available data, the classification criteria are not met

2,2'-iminodiethanol; diethanolamine - CAS: 111-42-2

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 1460 mg/l - Duration h: 96 - Notes: Pimephales promelas

Endpoint: EC50 - Species: Daphnia = 55 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 2.2 mg/l - Duration h: 96 - Notes: Pseudokirchneriella subcapitata

Endpoint: NOEC - Species: Daphnia = 0.78 mg/l - Duration h: 504 - Notes: LOEC : 1,56 mg/l

Endpoint: EC10 - Species: Microorganisms > 1000 mg/l - Duration h: 0.5

**12.2. Persistence and degradability**

2,2'-iminodiethanol; diethanolamine - CAS: 111-42-2

Biodegradability: Biodegradability rate - Test: OECD 301F - Duration: 28 days - %: 93

**12.3. Bioaccumulative potential**

2,2'-iminodiethanol; diethanolamine - CAS: 111-42-2

Log Pow -2.18

**12.4. Mobility in soil**

2,2'-iminodiethanol; diethanolamine - CAS: 111-42-2

Log Koc 0 or -1.1472

Volality (H: Henry's Law Constant) 0.000004 Pa.m<sup>3</sup>/mol - Notes: 25°C

**12.5. Results of PBT and vPvB assessment**

vPvB Substances: None - PBT Substances: None

**12.6. Endocrine disrupting properties**

No endocrine disruptor substances present in concentration  $\geq$  0.1%

**12.7. Other adverse effects**

No harmful effects expected.

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**SECTION 13: Disposal considerations**

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Recover if possible. In so doing, comply with the local and national regulations currently in force. Codes of wastes (Décision 2001/573/EC, Directive 2006/12/EEC, Directive 94/31/EEC on hazardous waste):

07 07 04\* other organic solvents, washing liquids and mother liquors

Additional disposal information:

Disposal should be in accordance with applicable regional, national and local laws and regulations. Please consult Technical Data Sheet for details.

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**SECTION 14: Transport information****14.1. UN number or ID number****14.2. UN proper shipping name**

ADR-Shipping Name: NA

IATA-Shipping Name: NA

IMDG-Shipping Name: NA

**14.3. Transport hazard class(es)****14.4. Packing group****14.5. Environmental hazards****14.6. Special precautions for user****14.7. Maritime transport in bulk according to IMO instruments**

N.A.

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**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Regulation (EU) n. 2017/776 (ATP 10 CLP)

Regulation (EU) n. 2018/669 (ATP 11 CLP)

Regulation (EU) n. 2018/1480 (ATP 13 CLP)

Regulation (EU) n. 2019/521 (ATP 12 CLP)

Regulation (EU) n. 2020/217 (ATP 14 CLP)

Regulation (EU) n. 2020/1182 (ATP 15 CLP)

Regulation (EU) n. 2021/643 (ATP 16 CLP)

Regulation (EU) n. 2021/849 (ATP 17 CLP)

Regulation (EU) n. 2022/692 (ATP 18 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

No restriction.

Restrictions related to the substances contained:

Restriction 75

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Listed or in compliance with the following international inventories:

Labelling of detergents (EC Regulations 648/2004 and 907/2006):  
N.A.

Labelling of biocides (Regulations 1896/2000, 1687/2002, 2032/2003, 1048/2005, 1849/2006, 1451/2007 and Directive 98/8/EC):  
N.A.

N.A.

Where applicable, refer to the following regulatory provisions :

Directive 2003/105/CE ('Activities linked to risks of serious accidents') and subsequent amendments.

1999/13/EC (VOC directive)

Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

None

#### 15.2. Chemical safety assessment

No

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### SECTION 16: Other information

N.A.: Not Applicable or Not Available

Full text of phrases referred to in Section 3:

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H302 Harmful if swallowed.

| Hazard class and hazard category | Code       | Description  |
|----------------------------------|------------|--|
| Acute Tox. 4                     | 3.1/4/Oral | Acute toxicity (oral), Category 4                              |
| Skin Irrit. 2                    | 3.2/2      | Skin irritation, Category 2                                    |
| Eye Dam. 1                       | 3.3/1      | Serious eye damage, Category 1                                 |
| Repr. 2                          | 3.7/2      | Reproductive toxicity, Category 2                              |
| STOT RE 2                        | 3.9/2      | Specific target organ toxicity - repeated exposure, Category 2 |

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,  
Commission of the European Communities



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SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold  
CCNL - Appendix 1  
Insert further consulted bibliography

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SOCOMORE strongly advises every recipient of this safety data sheet to read it carefully and to consult experts in the field if necessary or appropriate, in order to understand the information it contains, notably the possible dangers associated with this product. The users must ensure the conformity and completeness of this information with regards to their specific use of the product. The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the responsibility of the purchaser/user to ensure that their activities conform with current legislation in force.

The information is considered correct, but it is not exhaustive and it shall be used only as a guide which is based on the current knowledge of the substance or mixture and it is applicable to the safety precautions appropriate for the product.

|             |  |
|-------------|--|
| ADR:        | European Agreement concerning the International Carriage of Dangerous Goods by Road. |
| ATE:        | Acute Toxicity Estimate  |
| ATEmix:     | Acute toxicity Estimate (Mixtures)   |
| CAS:        | Chemical Abstracts Service (division of the American Chemical Society).              |
| CLP:        | Classification, Labeling, Packaging.   |
| DNEL:       | Derived No Effect Level.   |
| EINECS:     | European Inventory of Existing Commercial Chemical Substances.                       |
| GefStoffVO: | Ordinance on Hazardous Substances, Germany.  |
| GHS:        | Globally Harmonized System of Classification and Labeling of Chemicals.              |
| IATA:       | International Air Transport Association.   |
| IATA-DGR:   | Dangerous Goods Regulation by the "International Air Transport Association" (IATA).  |
| ICAO:       | International Civil Aviation Organization.   |
| ICAO-TI:    | Technical Instructions by the "International Civil Aviation Organization" (ICAO).    |
| IMDG:       | International Maritime Code for Dangerous Goods.                                     |
| INCI:       | International Nomenclature of Cosmetic Ingredients.                                  |
| KSt:        | Explosion coefficient.   |
| LC50:       | Lethal concentration, for 50 percent of test population.                             |
| LD50:       | Lethal dose, for 50 percent of test population.                                      |
| LTE:        | Long-term exposure.  |
| PNEC:       | Predicted No Effect Concentration.   |
| RID:        | Regulation Concerning the International Transport of Dangerous Goods by Rail.        |
| STE:        | Short-term exposure.   |
| STEL:       | Short Term Exposure limit.   |
| STOT:       | Specific Target Organ Toxicity.  |
| STOT SE:    | May cause drowsiness or dizziness  |
| TLV:        | Threshold Limiting Value.  |
| TWA:        | Time-weighted average  |

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TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day.  
(ACGIH Standard).

WGK: German Water Hazard Class.