

Safety data sheet

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BASF Safety data sheet according to Regulation (EC) No. 1907/2006

Date / Revised: 23.05.2011

Version: 3.0

Product: **Edeta® B Powder**

(ID no. 30035109/SDS_COS_GB/EN)

Date of print 24.05.2011

1. Identification of the substance/mixture and of the company/undertaking

Product identifier

Edeta® B Powder

Chemical name: tetrasodium ethylene diamine tetraacetate

| REACH registration number: 01-2119486762-27-0000

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

Relevant identified uses: cosmetic ingredient

For the detailed identified uses of the product see appendix of the safety data sheet.

Details of the supplier of the safety data sheet

Company:BASF SE
67056 Ludwigshafen
GERMANYContact address:BASF plc
PO Box 4, Earl Road, Cheadle Hulme,
Cheadle, Cheshire
SK8 6QG, UNITED KINGDOM

Telephone: +44 161 485-6222

E-mail address: product-safety-north@basf.com

Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

2. Hazards Identification

Label elements

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According to Regulation (EC) No 1272/2008 [CLP]

Globally Harmonized System, EU (GHS)

Pictogram:



Signal Word:

Danger

Hazard Statement:

H318	Causes serious eye damage.
H332	Harmful if inhaled.
H302	Harmful if swallowed.

Precautionary Statements (Prevention):

P271	Use only outdoors or in a well-ventilated area.
P280d	Wear eye/face protection.
P260a	Do not breathe dust.
P270	Do not eat, drink or smoke when using this product.
P264	Wash with plenty of water and soap thoroughly after handling.

Precautionary Statements (Response):

P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P301 + P330	IF SWALLOWED: rinse mouth.

Precautionary Statements (Disposal):

P501	Dispose of contents/container to hazardous or special waste collection point.
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According to Directive 67/548/EEC or 1999/45/EC

Regulation 1272/2008/EC on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation 1907/2006/EC

Hazard symbol(s)

Xn Harmful.



R-phrases(s)

R20/22	Harmful by inhalation and if swallowed.
R41	Risk of serious damage to eyes.

S-phrases(s)

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S22	Do not breathe dust.
S39	Wear eye/face protection.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Hazard determining component(s) for labelling: ETHYLENEDIAMINETETRAACETIC ACID
NA4-SALT

Classification of the substance or mixture

According to Regulation (EC) No 1272/2008 [CLP]

Acute tox. 4 (Inhalation - dust)

Acute tox. 4 (oral)

Eye dam./irr. 1

According to Directive 67/548/EEC or 1999/45/EC

Possible Hazards:

Harmful by inhalation and if swallowed.

Risk of serious damage to eyes.

For the classifications not written out in full in this section the full text can be found in section 16.

Other hazards

According to Regulation (EC) No 1272/2008 [CLP]

Other Hazards (GHS):

No specific dangers known, if the regulations/notes for storage and handling are considered.

3. Composition/Information on Ingredients

Substances

Chemical nature

INCI Name: Tetrasodium EDTA

tetrasodium ethylenediaminetetraacetate

CAS Number: 64-02-8

EC-Number: 200-573-9

INDEX-Number: 607-428-00-2

Hazardous ingredients (GHS)

according to Regulation (EC) No. 1272/2008

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trisodium nitrilotriacetate

Content (W/W): <= 4 %

CAS Number: 5064-31-3

EC-Number: 225-768-6

INDEX-Number: 607-620-00-6

Acute tox. 4 (oral)

Eye dam./irr. 2

Carc. 2

H319, H302, H351

Hazardous ingredients

according to Directive 1999/45/EC

trisodium nitrilotriacetate

Content (W/W): <= 4 %

CAS Number: 5064-31-3

EC-Number: 225-768-6

INDEX-Number: 607-620-00-6

Hazard symbol(s): Xn

R-phrases: 22, 36, 40

Carc. Cat. 3

For the classifications not written out in full in this section, including the indication of danger, the hazard symbols, the R phrases, and the hazard statements, the full text is listed in section 16.

4. First-Aid Measures

Description of first aid measures

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

On skin contact:

Wash thoroughly with soap and water.

On contact with eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms: difficulty breathing, corneal injury, gastrointestinal complaints, irritation of the mucous membranes

Indication of any immediate medical attention and special treatment needed

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:
dry powder, foam

Unsuitable extinguishing media for safety reasons:
carbon dioxide

Additional information:

Avoid whirling up the material/product because of the danger of dust explosion.

Special hazards arising from the substance or mixture

harmful vapours

Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

Advice for fire-fighters

Special protective equipment:

Wear a self-contained breathing apparatus.

Further information:

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Use personal protective clothing. Information regarding personal protective measures see, chapter 8.

Environmental precautions

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up

For small amounts: Pick up with suitable appliance and dispose of.

For large amounts: Contain with dust binding material and dispose of.

Avoid raising dust.

Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

7. Handling and Storage

Precautions for safe handling

Provide exhaust ventilation. Avoid inhalation of dusts.

Protection against fire and explosion:

Avoid dust formation. Take precautionary measures against static discharges.

Conditions for safe storage, including any incompatibilities

Suitable materials for containers: Low density polyethylene (LDPE), glass, paper, board, High density polyethylene (HDPE)

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.

8. Exposure Controls/Personal Protection

Control parameters

PNEC

freshwater: 2.2 mg/l

The derivation refers to the free acid

marine water: 0.22 mg/l

The derivation refers to the free acid

intermittent release: 1.2 mg/l

The derivation refers to the free acid

soil: 0.72 mg/kg

The derivation refers to the free acid

STP: 43 mg/l

The derivation refers to the free acid

DNEL

worker:

Long-term exposure - systemic and local effects, Inhalation: 2.5 mg/m³

worker:

Short-term exposure - systemic and local effects, Inhalation: 2.5 mg/m³

consumer:

Long-term exposure - systemic and local effects, Inhalation: 1.5 mg/m³

consumer:

Short-term exposure - systemic and local effects, Inhalation: 1.5 mg/m³

consumer:

Long-term exposure- systemic effects, oral: 25 mg/kg bw/day

Exposure controls

Personal protective equipment

Respiratory protection:

Suitable respiratory protection for lower concentrations or short-term effect: Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2)

Hand protection:

Chemical resistant protective gloves (EN 374)

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374):

e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7 mm) and other
 Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.
 Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:

Tightly fitting safety goggles (cage goggles) (e.g. EN 166) and face shield.

General safety and hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is recommended.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Form:	powder	
Colour:	white	
Odour:	product specific	
pH value:	approx. 10.5 - 12.5 (10 g/l, 23 °C)	(DIN 19268)
Melting point:		
	The substance / product decomposes therefore not determined.	
decomposition point:	> 150 °C Literature data. The substance / product decomposes.	
Flash point:		
	Study scientifically not justified.	
Ignition temperature:	> 200 °C	(DIN 51794)
Vapour pressure:	6 hPa (approx. 25 °C) contains water, Literature data.	(measured)
Solubility in water:	Literature data. approx. 500 g/l (20 °C)	
Solubility (qualitative) solvent(s):	polar solvents soluble	
Partitioning coefficient n-octanol/water (log Kow):	-13 (20 °C)	
Thermal decomposition:	> 150 °C	
Viscosity, dynamic:		
	Study scientifically not justified.	

Other information

Self heating ability: It is not a substance capable of spontaneous heating.

Bulk density: 620 - 760 kg/m³
 Grain size distribution: particles < 4 µm approx. 0.2 %

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particles < 10 µm approx. 1.7 %
particles < 100 µm approx. 51 %

10. Stability and Reactivity

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals:	Corrodes metals in the presence of water or moisture.
Formation of flammable gases:	Remarks: Forms no flammable gases in the presence of water.

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

No hazardous reactions when stored and handled according to instructions.

Conditions to avoid

Avoid humidity. Avoid dust formation.

Incompatible materials

Substances to avoid:
amphoteric metals, light metals

Hazardous decomposition products

Hazardous decomposition products:
No hazardous decomposition products if stored and handled as prescribed/indicated.

11. Toxicological Information

Information on toxicological effects

Acute toxicity

Assessment of acute toxicity:
Of moderate toxicity after single ingestion. Of moderate toxicity after short-term inhalation.

Experimental/calculated data:
LD50 rat (oral): 1,780 - 2,000 mg/kg (BASF-Test)

LC50 rat (by inhalation): 1000 - 5000 mg/m³ 6 h (OECD Guideline 403)
Analogous: Assessment derived from products with similar chemical character.

LD50 (dermal):
Study scientifically not justified.

Irritation

Assessment of irritating effects:

Not irritating to the skin. May cause severe damage to the eyes.

Experimental/calculated data:

Skin corrosion/irritation rabbit: non-irritant (BASF-Test)

Serious eye damage/irritation rabbit: irreversible damage (BASF-Test)

Germ cell mutagenicity**Assessment of mutagenicity:**

In the majority of tests performed (bacteria/microorganisms/cell cultures) a mutagenic effect was not found. A mutagenic effect was also not observed in in-vivo assays.

Developmental toxicity**Assessment of teratogenicity:**

Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

Specific target organ toxicity (single exposure)**Assessment of STOT single:**

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)**Assessment of repeated dose toxicity:**

No adverse effects were observed after repeated exposure in animal studies.

Aspiration hazard

Not relevant.

12. Ecological Information

Toxicity

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Toxicity to fish:

LC50 (96 h) > 100 mg/l, *Lepomis macrochirus* (OPP 72-1 (EPA-Guideline), static)

Nominal concentration. The product has not been tested. The statement has been derived from products of a similar structure or composition.

Aquatic invertebrates:

EC50 (48 h) > 100 mg/l, *Daphnia magna* (DIN 38412 Part 11, static)

Nominal concentration. The product has not been tested. The statement has been derived from products of a similar structure or composition.

Aquatic plants:

EC50 (72 h) > 100 mg/l (growth rate), *Scenedesmus obliquus* (Directive 88/302/EEC, part C, p. 89, static)

Nominal concentration.

Microorganisms/Effect on activated sludge:

EC20 (30 min) > 500 mg/l, activated sludge, domestic (OECD Guideline 209, aquatic)

Nominal concentration. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations. The product has not been tested. The statement has been derived from products of a similar structure or composition.

Chronic toxicity to fish:

No observed effect concentration (35 d) \geq 36.9 mg/l, *Brachydanio rerio* (OECD Guideline 210, Flow through.)

The statement of the toxic effect relates to the analytically determined concentration. The product has not been tested. The statement has been derived from products of a similar structure or composition.

Chronic toxicity to aquatic invertebrates:

No observed effect concentration (21 d), 25 mg/l, *Daphnia magna* (OECD Guideline 211, semistatic)

Nominal concentration. The product has not been tested. The statement has been derived from products of a similar structure or composition.

Soil living organisms:

LC50 (14 d) 156 mg/kg, *Eisenia foetida* (OECD Guideline 207, artificial soil)

The product has not been tested. The statement has been derived from products of a similar structure or composition.

Other terrestrial non-mammals:

Study scientifically not justified.

Persistence and degradability

Assessment biodegradation and elimination (H₂O):

Was found to be potentially biodegradable.

Not readily biodegradable (by OECD criteria).

Assessment of stability in water:

According to structural properties, hydrolysis is not expected/probable.

Bioaccumulative potential

Bioaccumulation potential:

Bioconcentration factor: approx. 1.8 (28 d), *Lepomis macrochirus*

Does not significantly accumulate in organisms.

Mobility in soil (and other compartments if available)

Assessment transport between environmental compartments:

The substance will not evaporate into the atmosphere from the water surface.

Adsorption to solid soil phase is not expected.

Results of PBT and vPvB assessment

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According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): Not fulfilling PBT (persistent/bioaccumulative/toxic) criteria. Self classification

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): Not fulfilling vPvB (very persistent/very bioaccumulative) criteria. Self classification

Additional information

Sum parameter

Theoretical Oxygen Demand (ThOD): 654 mg/g

Adsorbable organically-bound halogen (AOX):
This product contains no organically-bound halogen.

Other ecotoxicological advice:
Do not release untreated into natural waters.

13. Disposal Considerations

Waste treatment methods

The UK Environmental Protection (Duty of Care) Regulations (EP) and amendments should be noted (United Kingdom).

This product and any uncleaned containers must be disposed of as hazardous waste in accordance with the 2005 Hazardous Waste Regulations and amendments (United Kingdom)

14. Transport Information

Land transport

ADR

Not classified as a dangerous good under transport regulations

RID

Not classified as a dangerous good under transport regulations

Inland waterway transport

ADN

Not classified as a dangerous good under transport regulations

Sea transport

IMDG

Not classified as a dangerous good under transport regulations

Air transport

IATA/ICAO

Not classified as a dangerous good under transport regulations

15. Regulatory Information**Safety, health and environmental regulations/legislation specific for the substance or mixture**

This product is classified under the Chemicals (Hazard Information and Packaging) Regulations, (CHIP) (United Kingdom).

The data should be considered when making any assessment under the Control of Substances Hazardous to Health Regulations (COSHH), and related guidance, for example, 'COSHH Essentials' (United Kingdom).

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

16. Other Information

Information on intended use: This product is of industrial quality and unless otherwise specified or agreed intended exclusively for industrial use. This includes the mentioned and recommended usage. Any other intended applications should be discussed with the manufacturer. In particular this concerns the application for products that are the object of special standards and regulations.

Full text of the classifications, including the indication of danger, the hazard symbols, the R phrases, and the hazard statements, if mentioned in section 2 or 3:

Xn	Harmful.
22	Harmful if swallowed.
36	Irritating to eyes.
40	Limited evidence of a carcinogenic effect.
Carc. Cat. 3	Carcinogenic substances Category 3: Substances which cause concern for man owing to possible carcinogenic effects.
H319	Causes serious eye irritation.
H302	Harmful if swallowed.
H351	Suspected of causing cancer.

Vertical lines in the left hand margin indicate an amendment from the previous version.

If you have any queries relating to this MSDS, it's contents or any other product safety related questions, please write to the following e-mail address: product-safety-north@basf.com

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

Annex: Exposure Scenarios

1. Short title of exposure scenario

Formulation & (re)packing of substances and mixtures, (use in industrial settings), (solid preparations), (mid powder, medium dustiness)

SU3; ERC2, ERC3; PROC1, PROC2, PROC3, PROC4, PROC5, PROC6, PROC8a, PROC8b, PROC9, PROC14, PROC15, PROC19

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC2: Formulation of preparations As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC3: Formulation in materials As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	PROC1: Use in closed process, no likelihood of exposure. PROC2: Use in closed, continuous process with occasional controlled exposure. PROC3: Use in closed batch process (synthesis or formulation). Use domain: industrial
Operational conditions	
Concentration of the substance	tetrasodium ethylenediaminetetraacetate Content: $\geq 0\%$ - $\leq 100\%$
Physical state	Solid, medium dustiness
Duration and Frequency of activity	480 min 220 days per year
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide basic employee training to prevent/minimize exposures.	
Use suitable eye protection.	
Regular inspection and maintenance of equipment and machines.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
PROC1	
Assessment method	ECETOC TRA v2.0 Worker; modified version Worker - inhalative, long-term - local
Exposure estimate	0.01 mg/m ³
Risk Characterization Ratio (RCR)	0.004
	The exposure estimate represents the 90th percentile of the

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	exposure distribution., The short-term exposure value corresponds to the long-term value multiplied by a factor of 2., The short-term exposure value represents the 95th percentile of the exposure distribution.
PROC2	
Assessment method	ECETOC TRA v2.0 Worker; modified version
	Worker - inhalative, long-term - local
Exposure estimate	0.5 mg/m ³
Risk Characterization Ratio (RCR)	0.2
	The exposure estimate represents the 90th percentile of the exposure distribution., The short-term exposure value corresponds to the long-term value multiplied by a factor of 2., The short-term exposure value represents the 95th percentile of the exposure distribution.
PROC3	
Assessment method	ECETOC TRA v2.0 Worker; modified version
	Worker - inhalative, long-term - local
Exposure estimate	1 mg/m ³
Risk Characterization Ratio (RCR)	0.4
	The exposure estimate represents the 90th percentile of the exposure distribution., The short-term exposure value corresponds to the long-term value multiplied by a factor of 2., The short-term exposure value represents the 95th percentile of the exposure distribution.
Assessment method	Qualitative assessment
	Worker - dermal
	Dermal exposure is considered to be not relevant.
Additional good practice advice	
Keep substance away from direct sunlight. Store substance in dry places. Segregate substance from incompatible materials. Probing/sampling with considerable vapor release should not exceed 1 h/day	
Store substance in cool places. Store substance in well ventilated places. Segregate substance from foods. Put lids on containers immediately after use.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises. PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact). PROC6: Calendering operations PROC8a: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at dedicated facili-ties PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
Operational conditions	
Concentration of the substance	tetrasodium ethylenediaminetetraacetate Content: >= 0 % - <= 100 %

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Physical state	Solid, medium dustiness
Duration and Frequency of activity	480 min 220 days per year
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide basic employee training to prevent/minimize exposures.	
Provide extract ventilation to points where emissions occur (LEV).	Effectiveness: 90 %
Use suitable eye protection.	
In case no suitable local exhaust ventilation is present:, Wear a suitable respiratory protection with adequate effectiveness .	
Regular inspection and maintenance of equipment and machines.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
Assessment method	ECETOC TRA v2.0 Worker; modified version
	Worker - inhalative, long-term - local
Exposure estimate	0.5 mg/m ³
Risk Characterization Ratio (RCR)	0.2
	The exposure estimate represents the 90th percentile of the exposure distribution., The short-term exposure value corresponds to the long-term value multiplied by a factor of 2., The short-term exposure value represents the 95th percentile of the exposure distribution.
Assessment method	Qualitative assessment
	Worker - dermal
	Dermal exposure is considered to be not relevant.
Additional good practice advice	
Keep substance away from direct sunlight. Store substance in dry places. Segregate substance from incompatible materials. Probing/sampling with considerable vapor release should not exceed 1 h/day	
Store substance in cool places. Store substance in well ventilated places. Segregate substance from foods. Put lids on containers immediately after use.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC14: Production of preparations or articles by tableting, compression, extrusion, pelettisation. PROC15: Use a laboratory reagent. PROC19: Hand-mixing with intimate contact and only PPE available. Use domain: industrial
Operational conditions	
Concentration of the substance	tetrasodium ethylenediaminetetraacetate Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Duration and Frequency of activity	480 min 220 days per year
Indoor/Outdoor	Indoor

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Risk Management Measures	
Provide extract ventilation to points where emissions occur (LEV).	Effectiveness: 90 %
In case no suitable local exhaust ventilation is present:, Wear a suitable respiratory protection with adequate effectiveness ., Relevant for PROC 19	
Provide basic employee training to prevent/minimize exposures. Regular inspection and maintenance of equipment and machines.	
Use suitable eye protection. Wear suitable working clothes.	
Exposure estimate and reference to its source	
PROC14	
Assessment method	ECETOC TRA v2.0 Worker; modified version
	Worker - inhalative, long-term - local
Exposure estimate	1 mg/m ³
Risk Characterization Ratio (RCR)	0.4
	The exposure estimate represents the 90th percentile of the exposure distribution., The short-term exposure value corresponds to the long-term value multiplied by a factor of 2., The short-term exposure value represents the 95th percentile of the exposure distribution.
PROC15, PROC19	
Assessment method	ECETOC TRA v2.0 Worker; modified version
	Worker - inhalative, long-term - local
Exposure estimate	0.5 mg/m ³
Risk Characterization Ratio (RCR)	0.2
	The exposure estimate represents the 90th percentile of the exposure distribution., The short-term exposure value corresponds to the long-term value multiplied by a factor of 2., The short-term exposure value represents the 95th percentile of the exposure distribution.
Assessment method	Qualitative assessment
	Worker - dermal
	Dermal exposure is considered to be not relevant.
Additional good practice advice	
Keep substance away from direct sunlight. Store substance in dry places. Segregate substance from incompatible materials. Probing/sampling with considerable vapor release should not exceed 1 h/day	
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