

Safety data sheet

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BASF safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 11.04.2025

Version: 2.0

Date / Previous version: 16.12.2022

Previous version: 1.0

Product: **Hexamethylenediamine 100%**

(ID no. 30221688/SDS_GEN_DE/EN)

Date of print 14.07.2026

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

1.1. Product identifier

Hexamethylenediamine 100%

Chemical name: hexamethylenediamine

CAS Number: 124-09-4

REACH registration number: 01-2119473981-28-0002, 01-2119473981-28-0058, 01-2119473981-28-0005, 01-2119473981-28-0011, 01-2119473981-28-0000

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

Relevant identified uses: Chemical

Recommended use: for the production of homopolymerisates and copolymerisates, initial product for chemical syntheses

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

1.3. Details of the supplier of the safety data sheet

Company:

BASF SE

67056 Ludwigshafen

GERMANY

Division Monomers

Telephone: +49 621 60 42737

E-mail address: pss.monomers@basf.com

1.4. Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

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SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

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

Acute Tox. 4 (oral)	H302 Harmful if swallowed.
Acute Tox. 4 (dermal)	H312 Harmful in contact with skin.
Skin Corr./Irrit. 1B	H314 Causes severe skin burns and eye damage.
Eye Dam./Irrit. 1	H318 Causes serious eye damage.
STOT SE 3	H335 May cause respiratory irritation.

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

2.2. Label elements

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

Pictogram:



Signal Word:

Danger

Hazard Statement:

H312	Harmful in contact with skin.
H302	Harmful if swallowed.
H335	May cause respiratory irritation.
H314	Causes severe skin burns and eye damage.

Precautionary Statements (Prevention):

P280	Wear protective gloves, protective clothing and eye protection or face protection.
P271	Use only outdoors or in a well-ventilated area.
P260	Do not breathe dust/gas/mist/vapours.
P270	Do not eat, drink or smoke when using this product.
P264	Wash contaminated body parts thoroughly after handling.

Precautionary Statements (Response):

P310	Immediately call a POISON CENTER or physician.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P303 + P361 + P352	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P301 + P330 + P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P301 + P330	IF SWALLOWED: rinse mouth.

Precautionary Statements (Storage):

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
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P405 Store locked up.

Precautionary Statements (Disposal):

P501 Dispose of contents and container to hazardous or special waste collection point.

Hazard determining component(s) for labelling: hexamethylenediamine

2.3. Other hazards

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

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

The product does not contain a substance above legal limits fulfilling the PBT

(persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

Product does not contain a substance above legal limits included in the list established in

accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting

properties or is identified to have endocrine disrupting properties in accordance with the criteria set

out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3: Composition/Information on Ingredients

3.1. Substances

Chemical nature

hexamethylenediamine

CAS Number: 124-09-4

EC-Number: 204-679-6

INDEX-Number: 612-104-00-9

Acute Tox. 4 (oral)

Acute Tox. 4 (dermal)

Skin Corr. 1B

Eye Dam. 1

STOT SE 3 (irr. to respiratory syst.)

H335, H314, H302 + H312

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.

3.2. Mixtures

Not applicable

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SECTION 4: First-Aid Measures

4.1. Description of first aid measures

Immediately remove contaminated clothing. Seek medical attention. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). If not breathing, give artificial respiration. First aid personnel should pay attention to their own safety.

If inhaled:

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

On skin contact:

Remove contaminated clothing and dispose of safely to prevent any exposure. Immediately wash thoroughly with plenty of water, apply sterile dressings, consult a skin specialist. Burns caused by molten material require hospital treatment. Areas affected by molten material should be quickly placed under cold running 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. Do not induce vomiting.

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

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further) symptoms and / or effects are not known so far

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

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

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing media

Suitable extinguishing media:
water spray, foam, dry powder

Unsuitable extinguishing media for safety reasons:
carbon dioxide

5.2. Special hazards arising from the substance or mixture

Endangering substances: hydrogen cyanide, nitrogen oxides

Advice: The substances/groups of substances mentioned can be released in case of fire.

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5.3. Advice for fire-fighters

Special protective equipment:

Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:

In case of combustion evolution of dangerous gases possible. Under certain fire conditions traces of other poison substances like hydrogen cyanide can not be excluded. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Containers/tanks should be cooled with water spray.

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Use breathing apparatus if exposed to vapours/dust/aerosol. Avoid contact with the skin, eyes and clothing. Avoid all sources of ignition: heat, sparks, open flame. Information regarding personal protective measures, see section 8.

6.2. Environmental precautions

Discharge into the environment must be avoided. Do not discharge into drains/surface waters/groundwater. Retain and dispose of contaminated wash water.

6.3. Methods and material for containment and cleaning up

For small amounts: Allow to solidify and sweep/shovel up. Subject contaminated water to waste water treatment.

For large amounts: Allow to solidify and sweep/shovel up. Subject contaminated water to waste water treatment.

6.4. Reference to other sections

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

SECTION 7: Handling and Storage

7.1. Precautions for safe handling

Ensure thorough ventilation of stores and work areas. Handle and open container with care. Avoid contact with skin and eyes. Wear suitable protective clothing and eye/face protection. Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Segregate from acids and acid forming substances. Segregate from oxidants.

Suitable materials for containers: Stainless steel 1.4301 (V2), Stainless steel 1.4401, glass

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Further information on storage conditions: Containers should be stored tightly sealed in a dry place. Protect from air. Avoid all sources of ignition: heat, sparks, open flame.

Storage class according to TRGS 510 (originally VCI, Germany): (8A) Combustible corrosive substances

7.3. Specific end use(s)

See exposure scenario(s) in the attachment to this safety data sheet.

SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

Components with occupational exposure limits

No occupational exposure limits known.

PNEC

freshwater: 0,42 mg/l

marine water: 0,04 mg/l

intermittent release: 0,32 mg/l

sediment (freshwater): 65,35 mg/kg

sediment (marine water): 6,54 mg/kg

soil: 3,52 mg/kg

STP: 29,1 mg/l

oral (secondary poisoning):

No PNEC oral derived, as accumulation in organisms is not to be expected.

DNEL

worker:

Long-term exposure - local effects, Inhalation: 0,54 mg/m³

8.2. Exposure controls

Personal protective equipment

Respiratory protection:

Breathing protection if gases/vapours are formed. Gas filter for gases/vapours of alkaline compounds such as ammonia, amines (e.g. EN 14387 Type K).

Hand protection:

Chemical resistant protective gloves (EN ISO 374-1)

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chloroprene rubber (CR) - 0.5 mm coating thickness
 nitrile rubber (NBR) - 0.4 mm coating thickness
 polyvinylchloride (PVC) - 0.7 mm coating thickness
 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.

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures

Avoid inhalation of vapour. Contact with eyes and skin must be avoided. Take off immediately all contaminated clothing. At the end of the shift the skin should be cleaned and skin-care agents applied.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

State of matter:	liquid	
Form:	melt	
Colour:	colourless	
Odour:	amine-like	
Odour threshold:	No data available.	
Melting point:	41 °C	
	Literature data.	
Boiling point:	201 °C	(other)
	(1.000 hPa)	
Flammability:	not highly flammable	(Directive 84/449/EEC, A.10)
Lower explosion limit:	0,9 %(V)	
Upper explosion limit:	7,6 %(V)	
Flash point:	85 °C	(Directive 92/69/EEC, A.9, closed cup)
Auto-ignition temperature:	305 °C	(DIN 51794)
Self-ignition temperature:	Temperature: 315 °C	Test type: Self-ignition at high temperatures.
		(Method: Directive 92/69/EEC, A.15)
Thermal decomposition:	not determined	
pH value:	12,4	(pH Meter)
	(100 g/l, 25 °C)	
Viscosity, dynamic:	1 mPa.s	(internal method)
	(72 °C)	

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Solubility in water:	637 g/l (20 °C)	(OECD Guideline 105)
Partitioning coefficient n-octanol/water (log Kow):	0,44 (25 °C; pH value: approx. 13) The data refers to the undissociated form of the substance.	(calculated)
	-3,75 (25 °C; pH value: 7,5)	(calculated)
Vapour pressure:	0,26 hPa (20 °C) Extrapolated value	(Directive 92/69/EEC, A.4)
Relative density:	0,978 (19,5 °C)	(OECD Guideline 109)
Density:	0,84 g/cm ³ (50 °C) Literature data.	
Relative vapour density (air):	No data available.	

Particle characteristics

Particle size distribution: The substance / product is marketed or used in a non solid or granular form. -

9.2. Other information

Information with regard to physical hazard classes

Explosives

Explosion hazard: not explosive (Directive 84/449/EEC, A.14)

Impact sensitivity:

Based on the chemical structure there is no shock-sensitivity.

Oxidizing properties

Fire promoting properties: Based on its structural properties the product is not classified as oxidizing.

Pyrophoric properties

Self-ignition temperature: Test type: Spontaneous self-ignition at room-temperature.

Based on its structural properties the product is not classified as self-igniting.

Self-heating substances and mixtures

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

Substances and mixtures, which emit flammable gases in contact with water

Formation of flammable gases:

Forms no flammable gases in the presence of water.

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Corrosion to metals

No data available.

Other safety characteristics

Miscibility with water:

miscible

pKA:

10,7

Adsorption/water - soil: log KOC: 4,23

(OECD Guideline 106)

Surface tension: 71,5 mN/m
(20 °C; 1 g/l)

(OECD Guideline 115, Ring method)

Molar mass: 116,21 g/mol

Evaporation rate:

No data available.

SECTION 10: Stability and Reactivity

10.1. Reactivity

Strong exothermic reaction with acids.

Corrosion to metals: No data available.

Formation of flammable gases: Remarks:

Forms no flammable gases in the presence of water.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

Addition of water leads to increase in temperature. With acids neutralization takes place under development of heat. Reacts with oxidizing agents. If product is heated above decomposition temperature toxic vapours may be released.

10.4. Conditions to avoid

See SDS section 7 - Handling and storage.

10.5. Incompatible materials

Substances to avoid:
acids, oxidizing agents

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10.6. Hazardous decomposition products

Possible thermal decomposition products:

hydrogen cyanide, ammonia, anhydrous

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

SECTION 11: Toxicological Information

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

Acute toxicity

Assessment of acute toxicity:

Of moderate toxicity after single ingestion. Of moderate toxicity after short-term skin contact.

Experimental/calculated data:

LD50 rat (oral): 1.160 mg/kg (other)

(by inhalation): No data available.

LD50 rat (dermal): 1.900 mg/kg (Directive 92/69/EEC, B.3)

Irritation

Assessment of irritating effects:

Corrosive! Damages skin and eyes. Causes temporary irritation of the respiratory tract.

Experimental/calculated data:

Skin corrosion/irritation

In vitro assay: Corrosive. (OECD Guideline 435)

Serious eye damage/irritation

rabbit: irreversible damage (Guideline 92/69/EEC, B.5)

Respiratory/Skin sensitization

Assessment of sensitization:

No reliable data were available concerning sensitization. Animal studies do not exclude a sensitizing potential.

No reliable data were available concerning sensitization. Animal studies do not exclude a sensitizing potential.

Experimental/calculated data:

Study scientifically not justified.

Germ cell mutagenicity

Assessment of mutagenicity:

In the majority of studies performed with microorganisms and in mammalian cell culture, a mutagenic effect was not found. A mutagenic effect was also not observed in in vivo tests.

Carcinogenicity

Assessment of carcinogenicity:

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Study not necessary due to exposure considerations. Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

Experimental/calculated data:

Study not necessary due to exposure considerations.

Reproductive toxicity

Assessment of reproduction toxicity:

The results of animal studies gave no indication of a fertility impairing effect.

Developmental toxicity

Assessment of teratogenicity:

In animal studies the substance did not cause malformations.

Specific target organ toxicity (single exposure)

Remarks: No data available.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

After repeated exposure the prominent effect is local irritation.

Experimental/calculated data:

Subchronic Toxicity

rat by inhalation

NOAEL: 0,016 mg/l

Aspiration hazard

No data available.

Interactive effects

No data available.

11.2. Information on other hazards

Endocrine disrupting properties

The substance is not identified to have endocrine disrupting properties according to Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 nor is included in the Candidate List of substances of very high concern according to EU REACH Article 59 for having endocrine disrupting properties.

Other information

Other relevant toxicity information

Skin resorption hazard.

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SECTION 12: Ecological Information

12.1. Toxicity

Assessment of aquatic toxicity:

Acutely harmful for 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) 1.825 mg/l, *Pimephales promelas* (OECD 203; ISO 7346; 92/69/EWG, C.1, static)
Nominal concentration.

Aquatic invertebrates:

EC50 (48 h) 19,89 mg/l, *Daphnia magna* (Directive 84/449/EEC, C.2, static)
Nominal concentration.

EC50 (48 h) 50 mg/l, *Daphnia magna* (Daphnia test acute, static)
Nominal concentration.

Aquatic plants:

EC50 (72 h) > 100 mg/l (growth rate), *Pseudokirchneriella subcapitata* (OECD Guideline 201, static)
Nominal concentration.

No observed effect concentration (72 h) 10 mg/l (growth rate), *Pseudokirchneriella subcapitata* (OECD Guideline 201, static)
Nominal concentration.

Microorganisms/Effect on activated sludge:

EC50 (3 h) 291 mg/l, activated sludge, domestic (OECD Guideline 209, aquatic)

Chronic toxicity to fish:

No data available.

Chronic toxicity to aquatic invertebrates:

No observed effect concentration (21 d) 4,2 mg/l, *Daphnia magna* (OECD Guideline 202, part 2, Flow through.)

Assessment of terrestrial toxicity:

Toxic effects have been observed in studies with soil living organisms.

Soil living organisms:

EC10 (56 d) 176,1 mg/kg, *Eisenia foetida* (OECD Guideline 222, artificial soil)

EC10 (28 d) > 1.000 mg/kg, soil dwelling microorganisms (OECD Guideline 216, artificial soil)

Terrestrial plants:

No data available.

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Other terrestrial non-mammals:
No data available.

12.2. Persistence and degradability

Assessment biodegradation and elimination (H₂O):
Readily biodegradable (according to OECD criteria).

Elimination information:

82 % BOD of the ThOD (28 d) (OECD 301D; 92/69/EEG, C.4-E) (aerobic, activated sludge, domestic, adapted)

Assessment of stability in water:

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

Information on Stability in Water (Hydrolysis):

Study scientifically not justified.

12.3. Bioaccumulative potential

Assessment bioaccumulation potential:

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

Bioaccumulation potential:

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

12.4. Mobility in soil

Assessment transport between environmental compartments:

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

Adsorption in soil: No data available. Study scientifically not justified.

12.5. Results of PBT and vPvB assessment

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not fulfill the criteria for PBT (Persistent/bioaccumulative/toxic) and vPvB (very persistent/very bioaccumulative). Self classification

12.6. Endocrine disrupting properties

The substance is not identified to have endocrine disrupting properties according to Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 nor is included in the Candidate List of

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substances of very high concern according to EU REACH Article 59 for having endocrine disrupting properties.

12.7. Other adverse effects

The substance is not listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

Additional information

Sum parameter

Biochemical oxygen demand (BOD) Incubation period 5 d: 1.230 mg/g

Other ecotoxicological advice:

Do not release untreated into natural waters.

SECTION 13: Disposal Considerations

13.1. Waste treatment methods

Incinerate in suitable incineration plant, observing local authority regulations.
Do not discharge into drains/surface waters/groundwater.

Contaminated packaging:

Uncleaned empties should be disposed of in the same manner as the contents.

SECTION 14: Transport Information

Land transport

ADR

UN number or ID number: UN2280

UN proper shipping name: HEXAMETHYLENEDIAMINE, SOLID MOLTEN

Transport hazard class(es): 8

Packing group: III

Environmental hazards: no

Special precautions for user: Tunnel code: E

RID

UN number or ID number: UN2280

UN proper shipping name: HEXAMETHYLENEDIAMINE, SOLID MOLTEN

Transport hazard class(es): 8

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Packing group: III
Environmental hazards: no
Special precautions for user: None known

Inland waterway transport

ADN

UN number or ID number: UN2280
UN proper shipping name: HEXAMETHYLENEDIAMINE, SOLID MOLTEN

Transport hazard class(es): 8
Packing group: III
Environmental hazards: no
Special precautions for user: None known

Transport in inland waterway vessel

UN number or ID number: UN2280
UN proper shipping name: HEXAMETHYLENEDIAMINE, SOLID, MOLTEN MOLTEN

Transport hazard class(es): 8, N3
Packing group: III
Environmental hazards: yes
Type of inland waterway vessel: N
Cargo tank design: 3
Cargo tank type: 3

Sea transport

IMDG

UN number or ID number: UN 2280
UN proper shipping name: HEXAMETHYLENEDIAMINE, SOLID MOLTEN

Transport hazard class(es): 8
Packing group: III
Environmental hazards: no
Marine pollutant: NO
Special precautions for user: EmS: F-A; S-B

Air transport

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(ID no. 30221688/SDS_GEN_DE/EN)

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IATA/ICAO

UN number or ID number: UN 2280

UN proper shipping name: HEXAMETHYLENEDIAMINE, SOLID MOLTEN

Transport hazard class(es): 8

Packing group: III

Environmental hazards: No Mark as dangerous for the environment is needed

Special precautions for user: None known

14.1. UN number or ID number

See corresponding entries for "UN number or ID number" for the respective regulations in the tables above.

14.2. UN proper shipping name

See corresponding entries for "UN proper shipping name" for the respective regulations in the tables above.

14.3. Transport hazard class(es)

See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.

14.4. Packing group

See corresponding entries for "Packing group" for the respective regulations in the tables above.

14.5. Environmental hazards

See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

14.6. Special precautions for user

See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

14.7. Maritime transport in bulk according to IMO instruments

Regulation: IBC-Code

Product name: Hexamethylenediamine (molten)

Pollution category: Y

Ship Type: 3

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SECTION 15: Regulatory Information

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

Prohibitions, Restrictions and Authorizations

Annex XVII of Regulation (EC) No 1907/2006: Number on List: 75

Hazardous Incident Ordinance (Germany):

Listed in above regulation: no

Directive 2012/18/EU - Control of Major Accident Hazards involving dangerous substances (EU):

Listed in above regulation: no

Classification according to 'TA-Luft' (Germany):

5.2.5 class I: Organic gases class I

Water hazard class (§6 AwSV para.4 (Legal binding announcement of the substance in the Federal Gazette)): (1) Weakly water polluting. ID-No.: 1355

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

15.2. Chemical Safety Assessment

Chemical Safety Assessment performed

SECTION 16: Other Information

Assessment of the hazard classes according to UN GHS criteria (most recent version)

Aquatic Acute 3

Skin Corr./Irrit. 1B

STOT SE 3 (irritating to respiratory system)

Acute Tox. 4 (dermal)

Acute Tox. 4 (oral)

Flam. Liq. 4

Eye Dam./Irrit. 1

Full text of the classifications, including the hazard classes and the hazard statements, if mentioned in section 2 or 3:

Acute Tox.

Acute toxicity

Skin Corr./Irrit.

Skin corrosion/irritation

Eye Dam./Irrit.

Serious eye damage/eye irritation

STOT SE

Specific target organ toxicity — single exposure

H312

Harmful in contact with skin.

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H302	Harmful if swallowed.
H335	May cause respiratory irritation.
H314	Causes severe skin burns and eye damage.

Abbreviations

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road.
 ADN = The European Agreement concerning the International Carriage of Dangerous Goods by Inland waterways. ATE = Acute Toxicity Estimates. CAO = Cargo Aircraft Only. CAS = Chemical Abstract Service. CLP = Classification, Labelling and Packaging of substances and mixtures. DIN = German national organization for standardization. DNEL = Derived No Effect Level. EC50 = Effective concentration median for 50% of the population. EC = European Community. EN = European Standards. IARC = International Agency for Research on Cancer. IATA = International Air Transport Association. IBC-Code = Intermediate Bulk Container code. IMDG = International Maritime Dangerous Goods Code. ISO = International Organization for Standardization. STEL = Short-Term Exposure Limit. LC50 = Lethal concentration median for 50% of the population. LD50 = Lethal dose median for 50% of the population. TLV = Threshold Limit Value. MARPOL = The International Convention for the Prevention of Pollution from Ships. NEN = Dutch Norm. NOEC = No Observed Effect Concentration. OEL = Occupational Exposure Limit. OECD = Organization for Economic Cooperation and Development. PBT = Persistent, Bioaccumulative and Toxic. PNEC = Predicted No Effect Level. PPM = Parts per million. RID = The European Agreement concerning the International Carriage of Dangerous Goods by Rail. TWA = Time Weight Average. UN-number = UN number at transport. vPvB = very Persistent and very Bioaccumulative.

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. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

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

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Annex: Exposure Scenarios

Index

1. Formulation, (solid)

SU8, SU9; ERC3; PROC5, PROC8a, PROC8b, PROC9, PROC15

2. Use as an intermediate

SU8, SU9, SU12; ERC6a; PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15

3. Use in/as Formulation, (solid)

SU11; ERC6d; PROC5, PROC6, PROC8a, PROC8b, PROC14

4. Use as Monomer

ERC6c; PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15

1. Short title of exposure scenario

Formulation, (solid)

SU8, SU9; ERC3; PROC5, PROC8a, PROC8b, PROC9, PROC15

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC3: Formulation into solid matrix
Operational conditions	
Annual amount used in the EU	500.000 kg
Minimum emission days per year	100
Emission factor air	30 %
Emission factor water	0,2 %
Emission factor soil	0,1 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
Exposure estimate and reference to its source	

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Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,107328
	Risk from environmental exposure is driven by marine water.
Maximum amount of safe use	46.586,1 kg/d
Risk from environmental exposure is driven by marine water.	

Contributing exposure scenario	
Use descriptors covered	PROC5: Mixing or blending in batch processes Use domain: industrial
Operational conditions	
Concentration of the substance	hexamethylenediamine Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	4800 Pa
Process temperature	110 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 90 %
Avoid frequent and direct contact with substance. Ensure minimization of manual phases Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
In case of potential exposure:, Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, Workplace measurements
	Worker - inhalation, long-term - local
Exposure estimate	0,38 mg/m ³
Risk Characterization Ratio (RCR)	0,703704
Assessment method	Qualitative assessment
	Worker - dermal

Contributing exposure scenario	
Use descriptors covered	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial

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Operational conditions	
Concentration of the substance	hexamethylenediamine Content: $\geq 0\%$ - $\leq 5\%$
Physical state	Solid, medium dustiness
Vapour pressure of the substance during use	1000 Pa
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
Risk Management Measures	
Wear suitable respiratory protection.	Effectiveness: 90 %
Avoid frequent and direct contact with substance. Ensure minimization of manual phases Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
In case of potential exposure:, Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	0,1 mg/m ³
Risk Characterization Ratio (RCR)	0,185185
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
Operational conditions	
Concentration of the substance	hexamethylenediamine Content: $\geq 0\%$ - $\leq 100\%$
Physical state	Solid, medium dustiness
Vapour pressure of the substance during use	1000 Pa
Duration and Frequency of activity	60 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
Risk Management Measures	

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Local exhaust ventilation	Effectiveness: 95 %
Avoid frequent and direct contact with substance. Ensure minimization of manual phases Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Ensure samples are obtained under containment or extract ventilation.	
In case of potential exposure:, Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	0,05 mg/m ³
Risk Characterization Ratio (RCR)	0,092593
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
Operational conditions	
Concentration of the substance	hexamethylenediamine Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	1200 Pa
Process temperature	80 °C
Duration and Frequency of activity	60 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 95 %
Avoid splashing. Avoid frequent and direct contact with substance. Ensure minimization of manual phases Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
In case of potential exposure:, Use	

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suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, Workplace measurements
	Worker - inhalation, long-term - local
Exposure estimate	0,11 mg/m ³
Risk Characterization Ratio (RCR)	0,203704
Assessment method	Qualitative assessment
	Worker - dermal

Contributing exposure scenario	
Use descriptors covered	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
Operational conditions	
Concentration of the substance	hexamethylenediamine Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Vapour pressure of the substance during use	1000 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 90 %
Wear suitable respiratory protection.	Effectiveness: 90 %
Avoid frequent and direct contact with substance. Ensure minimization of manual phases Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Operation with a properly sited receiving hood	
In case of potential exposure:, Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	0,05 mg/m ³
Risk Characterization Ratio (RCR)	0,092593
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario

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Use descriptors covered	PROC15: Use a laboratory reagent. Use domain: industrial
Operational conditions	
Concentration of the substance	hexamethylenediamine Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Vapour pressure of the substance during use	1000 Pa
Duration and Frequency of activity	60 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 90 %
Avoid frequent and direct contact with substance. Ensure minimization of manual phases Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
In case of potential exposure:, Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	0,05 mg/m ³
Risk Characterization Ratio (RCR)	0,092593
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

2. Short title of exposure scenario

Use as an intermediate

SU8, SU9, SU12; ERC6a; PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC6a: Use of intermediate
Operational conditions	
Annual amount used in the EU	75.000.000 kg

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Minimum emission days per year	300
Emission factor air	0,1 %
Emission factor water	0 %
Emission factor soil	0,1 %
Receive Surf. Water (Flow Rate).	400.000 m3/d
Dilution factor river	41
Dilution factor coast	100
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	10.000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,007461
	Risk from environmental exposure is driven by marine water.
Maximum amount of safe use	33.508,3 t/d
Risk from environmental exposure is driven by marine water.	

Contributing exposure scenario	
Use descriptors covered	ERC6a: Use of intermediate
Operational conditions	
Annual amount per site	3.000.000 kg
Minimum emission days per year	300
Emission factor air	0,1 %
Emission factor water	2 %
Emission factor soil	0,1 %
Receive Surf. Water (Flow Rate).	400.000 m3/d
Dilution factor river	41
Dilution factor coast	100
Risk Management Measures	
Type of STP	Municipal STP

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Assumed sewage treatment plant flow (m3/d)	10.000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,406932
	Risk from environmental exposure is driven by marine water.
Maximum amount of safe use	24.574,2 kg/d
Risk from environmental exposure is driven by marine water.	

Contributing exposure scenario	
Use descriptors covered	ERC6a: Use of intermediate
Operational conditions	
Annual amount per site	50.000.000 kg
Minimum emission days per year	300
Emission factor air	0,1 %
Emission factor water	0,7 %
Emission factor soil	0,1 %
Receive Surf. Water (Flow Rate).	400.000 m3/d
Dilution factor river	41
Dilution factor coast	100
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	10.000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,548624
	Risk from environmental exposure is driven by freshwater.
Maximum amount of safe use	303.790,1 kg/d
Risk from environmental exposure is driven by freshwater.	

Contributing exposure scenario	
Use descriptors covered	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial

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Operational conditions	
Concentration of the substance	hexamethylenediamine Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	4800 Pa
Process temperature	110 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
Risk Management Measures	
In case of potential exposure: Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	0,0484 mg/m ³
Risk Characterization Ratio (RCR)	0,089664
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: industrial
Operational conditions	
Concentration of the substance	hexamethylenediamine Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	4800 Pa
Process temperature	110 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 90 %

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Avoid frequent and direct contact with substance. Ensure minimization of manual phases Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
In case of potential exposure:, Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, Workplace measurements
	Worker - inhalation, long-term - local
Exposure estimate	0,2 mg/m ³
Risk Characterization Ratio (RCR)	0,37037
Assessment method	Qualitative assessment
	Worker - dermal

Contributing exposure scenario	
Use descriptors covered	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: industrial
Operational conditions	
Concentration of the substance	hexamethylenediamine Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	4800 Pa
Process temperature	110 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 90 %
Avoid frequent and direct contact with substance. Ensure minimization of manual phases Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
In case of potential exposure:, Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, Workplace measurements

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	Worker - inhalation, long-term - local
Exposure estimate	0,058 mg/m ³
Risk Characterization Ratio (RCR)	0,107407
Assessment method	Qualitative assessment
	Worker - dermal

Contributing exposure scenario	
Use descriptors covered	PROC4: Chemical production where opportunity for exposure arises Use domain: industrial
Operational conditions	
Concentration of the substance	hexamethylenediamine Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	4800 Pa
Process temperature	110 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 90 %
Avoid frequent and direct contact with substance. Ensure minimization of manual phases Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
In case of potential exposure:, Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, Workplace measurements
	Worker - inhalation, long-term - local
Exposure estimate	0,36 mg/m ³
Risk Characterization Ratio (RCR)	0,666667
Assessment method	Qualitative assessment
	Worker - dermal

Contributing exposure scenario	
Use descriptors covered	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
Operational conditions	

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Concentration of the substance	hexamethylenediamine Content: $\geq 0\%$ - $< 1\%$
Physical state	liquid
Vapour pressure of the substance during use	120 Pa
Process temperature	40 °C
Duration and Frequency of activity	60 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
Risk Management Measures	
Avoid frequent and direct contact with substance. Ensure minimization of manual phases Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
In case of potential exposure:, Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, Workplace measurements
	Worker - inhalation, long-term - local
Exposure estimate	0,001 mg/m ³
Risk Characterization Ratio (RCR)	0,001852
Assessment method	Qualitative assessment
	Worker - dermal

Contributing exposure scenario	
Use descriptors covered	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
Operational conditions	
Concentration of the substance	hexamethylenediamine Content: $\geq 0\%$ - $< 1\%$
Physical state	liquid
Vapour pressure of the substance during use	120 Pa
Process temperature	40 °C
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures

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Risk Management Measures	
Avoid frequent and direct contact with substance. Ensure minimization of manual phases Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
In case of potential exposure:, Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, Workplace measurements
	Worker - inhalation, long-term - local
Exposure estimate	0,12 mg/m ³
Risk Characterization Ratio (RCR)	0,222222
Assessment method	Qualitative assessment
	Worker - dermal
Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
Operational conditions	
Concentration of the substance	hexamethylenediamine Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	120 Pa
Process temperature	80 °C
Duration and Frequency of activity	60 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
Risk Management Measures	
Avoid frequent and direct contact with substance. Ensure minimization of manual phases Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Sample via a closed loop or other system to avoid exposure. Ensure samples are obtained under containment or extract ventilation.	
In case of potential exposure:, Use suitable chemically resistant gloves.	

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Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, Workplace measurements
	Worker - inhalation, long-term - local
Exposure estimate	0,15 mg/m ³
Risk Characterization Ratio (RCR)	0,277778
Assessment method	Qualitative assessment
	Worker - dermal

Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
Operational conditions	
Concentration of the substance	hexamethylenediamine Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	120 Pa
Process temperature	80 °C
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures

Risk Management Measures	
Local exhaust ventilation	Effectiveness: 95 %
Avoid splashing. Avoid frequent and direct contact with substance. Ensure minimization of manual phases Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
In case of potential exposure:, Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, Workplace measurements
	Worker - inhalation, long-term - local
Exposure estimate	0,049 mg/m ³
Risk Characterization Ratio (RCR)	0,090741
Assessment method	Qualitative assessment
	Worker - dermal

Contributing exposure scenario	
Use descriptors covered	PROC15: Use a laboratory reagent. Use domain: industrial

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Operational conditions	
Concentration of the substance	hexamethylenediamine Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	230 Pa
Process temperature	50 °C
Duration and Frequency of activity	60 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 90 %
Avoid frequent and direct contact with substance. Ensure minimization of manual phases Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
In case of potential exposure:, Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, Workplace measurements
	Worker - inhalation, long-term - local
Exposure estimate	0,093 mg/m ³
Risk Characterization Ratio (RCR)	0,172222
Assessment method	Qualitative assessment
	Worker - dermal

3. Short title of exposure scenario

Use in/as Formulation, (solid)

SU11; ERC6d; PROC5, PROC6, PROC8a, PROC8b, PROC14

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC6d: Use of reactive process regulators in polymerisation processes at industrial site (inclusion or not into/onto article)
Operational conditions	
Annual amount used in the EU	500.000 kg

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Minimum emission days per year	20
Emission factor air	35 %
Emission factor water	0,005 %
Emission factor soil	0,025 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,019944
	Risk from environmental exposure is driven by marine water.
Maximum amount of safe use	1.253,5 t/d
Risk from environmental exposure is driven by marine water.	

Contributing exposure scenario	
Use descriptors covered	PROC5: Mixing or blending in batch processes Use domain: industrial
Operational conditions	
Concentration of the substance	hexamethylenediamine Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	4800 Pa
Process temperature	110 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 90 %
Avoid frequent and direct contact with substance. Ensure minimization of	

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manual phases Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
In case of potential exposure:, Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, Workplace measurements
	Worker - inhalation, long-term - local
Exposure estimate	0,38 mg/m ³
Risk Characterization Ratio (RCR)	0,703704
Assessment method	Qualitative assessment
	Worker - dermal

Contributing exposure scenario	
Use descriptors covered	PROC6: Calendering operations Use domain: industrial
Operational conditions	
Concentration of the substance	hexamethylenediamine Content: >= 0 % - <= 5 %
Physical state	liquid
Vapour pressure of the substance during use	3000 Pa
Process temperature	100 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 90 %
Avoid frequent and direct contact with substance. Ensure minimization of manual phases Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
In case of potential exposure:, Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, Workplace measurements
	Worker - inhalation, long-term - local
Exposure estimate	0,22 mg/m ³
Risk Characterization Ratio (RCR)	0,407407
Assessment method	Qualitative assessment
	Worker - dermal

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Contributing exposure scenario	
Use descriptors covered	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
Operational conditions	
Concentration of the substance	hexamethylenediamine Content: $\geq 0\%$ - $\leq 5\%$
Physical state	Solid, medium dustiness
Vapour pressure of the substance during use	1000 Pa
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
Risk Management Measures	
Wear suitable respiratory protection.	Effectiveness: 90 %
Avoid frequent and direct contact with substance. Ensure minimization of manual phases Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
In case of potential exposure:, Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	0,1 mg/m ³
Risk Characterization Ratio (RCR)	0,185185
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
Operational conditions	
Concentration of the substance	hexamethylenediamine Content: $\geq 0\%$ - $\leq 100\%$
Physical state	Solid, medium dustiness
Vapour pressure of the substance during use	1000 Pa

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Duration and Frequency of activity	60 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 95 %
Avoid frequent and direct contact with substance. Ensure minimization of manual phases Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
In case of potential exposure:, Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	0,05 mg/m ³
Risk Characterization Ratio (RCR)	0,092593
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC14: Tableting, compression, extrusion, pelletisation, granulation Use domain: industrial
Operational conditions	
Concentration of the substance	hexamethylenediamine Content: >= 0 % - <= 5 %
Physical state	Solid, medium dustiness
Vapour pressure of the substance during use	1000 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
Risk Management Measures	
Avoid frequent and direct contact with substance. Ensure minimization of manual phases Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
In case of potential exposure:, Use suitable chemically resistant gloves.	

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Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	0,2 mg/m ³
Risk Characterization Ratio (RCR)	0,37037
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

4. Short title of exposure scenario

Use as Monomer

ERC6c; PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC6c: Use of monomer in polymerisation processes at industrial site (inclusion or not into/onto article)
Operational conditions	
Annual amount used in the EU	100.000.000 kg
Minimum emission days per year	300
Emission factor air	0,001 %
Emission factor water	0,01 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	104.166 m ³ /h
Dilution factor river	1.000
Dilution factor coast	100
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m ³ /d)	2.000 m ³ /d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,340352
	Risk from environmental exposure is driven by marine water.
Maximum amount of safe use	979.379,1

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	kg/d
Risk from environmental exposure is driven by marine water.	

Contributing exposure scenario	
Use descriptors covered	ERC6c: Use of monomer in polymerisation processes at industrial site (inclusion or not into/onto article)
Operational conditions	
Annual amount used in the EU	10.000.000 kg
Minimum emission days per year	300
Emission factor air	0,001 %
Emission factor water	0,01 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	400.000 m3/d
Dilution factor river	201
Dilution factor coast	100
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,04075
	Risk from environmental exposure is driven by marine water.
Maximum amount of safe use	817.997,6 kg/d
Risk from environmental exposure is driven by marine water.	

Contributing exposure scenario	
Use descriptors covered	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial
Operational conditions	
Concentration of the substance	hexamethylenediamine Content: >= 0 % - <= 100 %
Physical state	liquid

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Vapour pressure of the substance during use	4800 Pa
Process temperature	110 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
Risk Management Measures	
In case of potential exposure:, Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	0,0484 mg/m ³
Risk Characterization Ratio (RCR)	0,089664
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: industrial
Operational conditions	
Concentration of the substance	hexamethylenediamine Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	4800 Pa
Process temperature	110 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 90 %
Avoid frequent and direct contact with substance. Ensure minimization of manual phases Supervision in place to check that the RMMs in place are being used correctly and OCs	

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followed.	
Avoid contact with eyes.	
Use suitable eye protection.	
Use suitable chemically resistant gloves., In case of potential exposure:	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, Workplace measurements
	Worker - inhalation, long-term - local
Exposure estimate	0,2 mg/m ³
Risk Characterization Ratio (RCR)	0,37037
Assessment method	Qualitative assessment
	Worker - dermal

Contributing exposure scenario	
Use descriptors covered	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: industrial
Operational conditions	
Concentration of the substance	hexamethylenediamine Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	4800 Pa
Process temperature	110 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 90 %
Avoid frequent and direct contact with substance. Ensure minimization of manual phases Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
In case of potential exposure:, Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, Workplace measurements
	Worker - inhalation, long-term - local
Exposure estimate	0,058 mg/m ³
Risk Characterization Ratio (RCR)	0,107407

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Assessment method	Qualitative assessment
	Worker - dermal

Contributing exposure scenario	
Use descriptors covered	PROC4: Chemical production where opportunity for exposure arises Use domain: industrial
Operational conditions	
Concentration of the substance	hexamethylenediamine Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	4800 Pa
Process temperature	110 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 90 %
Avoid frequent and direct contact with substance. Ensure minimization of manual phases Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
In case of potential exposure:, Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, Workplace measurements
	Worker - inhalation, long-term - local
Exposure estimate	0,36 mg/m ³
Risk Characterization Ratio (RCR)	0,666667
Assessment method	Qualitative assessment
	Worker - dermal

Contributing exposure scenario	
Use descriptors covered	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
Operational conditions	
Concentration of the substance	hexamethylenediamine Content: >= 0 % - < 1 %

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Physical state	liquid
Vapour pressure of the substance during use	120 Pa
Process temperature	40 °C
Duration and Frequency of activity	60 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
Risk Management Measures	
Avoid frequent and direct contact with substance. Ensure minimization of manual phases Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
In case of potential exposure:, Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, Workplace measurements
	Worker - inhalation, long-term - local
Exposure estimate	0,001 mg/m ³
Risk Characterization Ratio (RCR)	0,001852
Assessment method	Qualitative assessment
	Worker - dermal

Contributing exposure scenario	
Use descriptors covered	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
Operational conditions	
Concentration of the substance	hexamethylenediamine Content: >= 0 % - < 1 %
Physical state	liquid
Vapour pressure of the substance during use	120 Pa
Process temperature	40 °C
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
Risk Management Measures	
Avoid frequent and direct contact with substance. Ensure minimization of	

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manual phases Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
In case of potential exposure:, Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, Workplace measurements
	Worker - inhalation, long-term - local
Exposure estimate	0,12 mg/m ³
Risk Characterization Ratio (RCR)	0,222222
Assessment method	Qualitative assessment
	Worker - dermal

Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
Operational conditions	
Concentration of the substance	hexamethylenediamine Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	1200 Pa
Process temperature	80 °C
Duration and Frequency of activity	60 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 95 %
Avoid frequent and direct contact with substance. Ensure minimization of manual phases Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
In case of potential exposure:, Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, Workplace measurements
	Worker - inhalation, long-term - local
Exposure estimate	0,15 mg/m ³
Risk Characterization Ratio (RCR)	0,277778
Assessment method	Qualitative assessment

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	Worker - dermal
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Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
Operational conditions	
Concentration of the substance	hexamethylenediamine Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	1200 Pa
Process temperature	80 °C
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 95 %
Avoid frequent and direct contact with substance. Ensure minimization of manual phases Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
In case of potential exposure:, Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, Workplace measurements
	Worker - inhalation, long-term - local
Exposure estimate	0,049 mg/m ³
Risk Characterization Ratio (RCR)	0,090741
Assessment method	Qualitative assessment
	Worker - dermal

Contributing exposure scenario	
Use descriptors covered	PROC15: Use a laboratory reagent. Use domain: industrial
Operational conditions	
Concentration of the substance	hexamethylenediamine Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance	230 Pa

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during use	
Process temperature	50 °C
Duration and Frequency of activity	60 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 90 %
Avoid frequent and direct contact with substance. Ensure minimization of manual phases Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
In case of potential exposure:, Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, Workplace measurements
	Worker - inhalation, long-term - local
Exposure estimate	0,093 mg/m ³
Risk Characterization Ratio (RCR)	0,172222
Assessment method	Qualitative assessment
	Worker - dermal
