

NON HAZARDOUS – CHEMICAL IDENTIFICATION CODE NOT APPLICABLE

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

Product Name : HYDROTHANE HP, part A

HS Code : 32149090

Application : Two Component, Solvent Free Spray Applied Pure

Polyurea Coating

Manufacturer : MATEX CONSTRUCTION CHEMICALS

MANUFACTURING CO. L.L.C.

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2. HAZARDS IDENTIFICATION:

Classification of the substance or mixture According to (EC) No 1272/2008 (CLP)

Carc. 2: H351 Suspected of causing cancer

STOT RE2: H373 may cause damage to organs through prolonged or repeated

Exposure if swallowed.

Resp. Sens. 1: H334 may cuase allergy or asthma symptoms or breathing difficulties if

Inhaled

Acute Tox. 4: H332 Harmful if inhaled

Eye Irrit. 2: H319 Causes serious eye irritation
Skin Sens. 1: H317 May cause an allergic skin reaction

Skin Irrit. 2: H315 Causes skin irritation

STOT SE 3: H335 May cause respiratory irritation

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

Xn, Harmful – R20: Harmful by inhalation

Xi, Irritant – R36/37/38: irritating to eyes, respiratory system and skin Xn, carcinogen category 3 – R40: Limited evidence of a carcinogenic effect Sensitizing – R42/43: May cause sensitisation by inhalation and skin contact

Xn, Harmful – R48/20: Harmful – danger of serious damage to health by prolonged

exposure through inhalation

Label Elements: The product is classified and required to be labelled in accordance with EC-directives



Labelling according to Regulation (EC) 1272/2008
Hazard Pictograms





Signal Word

Danger

Contains

Polyoxy (methyl-1,2-ethanediyl), alpha-hydro-omega-hydroxy-polymer With 1, 1-methylenebisisocyamatobenzene

4,4 – Methylenediphenyl diisocyanate

Reaction mass of 4,4-methylenediphenyl diisocyanate and o-(p-lsocyanatobenzyl) phenyl isocyanate

4,4 - Methylenediphenyldiisocyanate, oligomers

Hazard Statements

H351 Suspected of causing cancer

H373 May cause damage to organs through prolonged or repeated exposure

if swallowed

H334 may cause allergy or asthma symptoms or breathing difficulties if

inhaled

H332 Harmful if inhaled

H319 Causes serious eye irritation

H317 May cause an allergic skin reaction

H315 Causes skin irritation

H335 may cause respiratory irritation

Precautionary Statements

P260 Do not breathe vapours/spray

P280 Wear protective gloves/protective clothing/eye protection/face

protection

P284 In case of inadequate ventilation wear respiratory protection

P302+P352 IF ON SKIN: Wash with plenty of water/soap

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable

for breathing

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes

Remove contact lenses, present and easy to do. Continue rinsing

P311 Call a POISON CENTER/doctor

Special labelling

EUH204 Contains isocyanates. May produce an allergic reaction



Other Hazards Further hazards were not determined with the current level of knowledge

3. COMPOSITION / INFORMATION ON INGREDIENTS:

The product is a mixture.

Range (1%) Substance

60 - <100 Polyoxy (methyl-1,2-ethanediyl), alpha-hydro-omega-hydroxy-polymer with

1, 1-methylenebisisocyanatobenzene

CAS: 39420-98-9, EINECS/ELINCS: polymer

GHS/CLP: Acute Tox. 4: H332 – Skin Irrit. 2: H315 – Eye Irrit. 2: H319 – Resp. Sens. 1: H334 – Skin Sens. 1: H317 – Care. 2: H351 – STOT SE 3: H335 – STOT

RE 2: H374

EEC: Xn, R20-36/37/38-40-42/43-48/20

13 - <30 4,4'-Methylenediphenyl diisocyanate

CAS: 101-68-8, EINECS/ELINCS: 202-966-0, EU-INDEX: 615-005-00-9, ECB-NR

01-2119457014-47-XXXX

GHS/CLP: Care. 2: H351 – Acute Tox. 4: H332 – STOT RE 2: H373 – Eye irrit. 2

H319 – STOT SE 3: H335 – Skin Irrit. 2: H315 – Resp. Sens. 1: H334 – Skin

Sens. 1: H317

EEC: Xn, R 20-36/37/38-40-42/43-48/20

3 - <7 4,4'-Methylenediphenyldiisocyanate, oligomers

CAS 25686-28-6, EI NE CS/ELI NCS: 500-040-3, ECB-Nr.: 01-211945 7013-49-

XXX

GHS/CLP: Scute Tox. 4: H332 – Skin Irrit. 2: H315 – Eye Irrit. 2: H319 – Resp.

Sens. 1: H334 – Skin Sens. 1: H317 – Care 2: H351 – STOT RE 2: H373

EEC; Xn, R 40-20-42/43-48/20-36/37/38

3 - <7 Reaction mass of 4,4 methylenediphenyl diisocyanate and o(p-

Isocyanatobenzyl)phenyl isocyanate

EINECS/ELINCS: 905-806-4, ECB-Nr.: 01-211945 7013-49-XXXX

GHS/CLP: Care. 2: H351 – Acute Tox. 4: H332 – STOT RE 2: H373 – Eye Irrit. 2

H319 – STOT SE 3: H335 – Skin Irrit. 2: H315 – Resp. Send. 1: H334 – Skin

Sens. 1: H317

EEC: Xn, R20-36/37/38-40-42/43-48/20

Comment on component parts Substances of very high concern – SVHC: substances are not contained or are below 0.1%. For full test of H-statement and R-phrases: see SECTION 16

4. FIRST AID MEASURES:

General Info : Take off contaminated clothing and wash before

reuse



Eyes Irrigate immediately with copious quantities of water for

several minutes. Obtain medical attention urgently if

symptoms persist.

Skin Wash immediately with copious quantities of water

with soap. Remove contaminated clothing immediately.

Obtain medical advice if skin disorders develop.

Inhalation Remove from exposure, rest and keep warm and obtain

medical attention urgently.

Wash out mouth with water. DO NOT induce vomiting. Ingestion

Obtain medical attention

Most important symptoms and effects (both acute and delayed)

Irritant effects, allergic reactions, redness, gastro-

Intestinal complaints, cough

Indication of any immediate medical attention and special treatment needed

Treat symptomatically

Keep under medical supervision for at least 48 hours

Foam, dry powder, water spray jet, carbon dioxide

5. FIRE FIGHTING MEASURES:

Suitable Extinguishing Media

Extinguishing media that must not

Be used

Full water jet

Specific Hazards Oxides of carbon and nitrogen may be emitted.

Isocyanate, Hydrogen Cyanide

Special Protective Precaution and

Fire fighters to wear self-contained breathing apparatus Equipment

and suitable protective clothing

Do not inhale explosion and /or combustion gases

Cool containers at risk with water spray jet

Fire residues and contaminated firefighting water must

be disposed of in accordance with local regulations

6. ACCIDENTAL RELEASE MEASURES:

Personal Precautions Ensure adequate ventilation

Use breathing apparatus if exposed to vapour/aerosol

Use personal protective equipment

Remove persons to safety

High risk of slipping due to leakage/spillage of product

Environmental Precautions Prevent entry into drains, sewers and water courses.



After spillage/leakage : Prevent spread over a wide area (e.g by containment or

oil barriers

: In case of product spills into drains/surface waters/

groundwater, immediately inform the authorities
Pickup with absorbent material (e.g sand, universal

absorbent, diatomaceous earth)

: Dispose of absorbed material in accordance with the

regulations

In addition, please refer to the local regulations regarding disposal.

7. HANDLING AND STORAGE:

Precautions for safe handling : Use only in well-ventilated areas

Provide suitable vacuuming at the processing area

Avoid spilling or spraying in eclosed areas

The product is combustible

Do not eat, drink, smoke or take drugs at work

Take off contaminated clothing and wash before reuse It is recommended to preview eye-wash bottle and

showers

Wash hands before breaks and after work

Use barrier skin cream

Conditions for safe storage, including any incompatibilities

: Prevent penetration into the ground

Keep only in original container

Do not store with amines

Keep away from water

Do not store together with oxidizing agents

Keep container tightly closed

Keep container in a well-ventilated place Keep in a cool place. Store in a dry place Protect from heat/overheating and from sun

Storage class 10 (VCI)



8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

Control Parameters

3 - 7

Ingredients with occupational exposure limits to be monitored (GB)

Range (%) Substance

60 – 100 Polyoxy(methyl-1,2-ethanediyl), alpha-hydro-omega-hydroxy-polymer

With 1, 1-methylenebisisocyanatobenzene CAS: 39420-98-9, EINECS/ELINCS: polymer Long-term exposure: 0.02 mg/m³, as NCO, Sen Short-term exposure (15-minute): 0.07 mg/m³

3 – 7 Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-

Isocyanatobenzyl)phenyl isocyanate

EINECS/ELINCS: 905-806-4, ECB-Nr: 01-2119457015-45-XXXX

Long-term exposure: 0.02 mg/m³, as NCO, Sen Short-term exposure (15-minute): 0.07 mg/m³ 4,4'-methylenediphenyldiisocyanate, oligomers

CAS: 25686-28-6, EINECS/ELINCS: 500-040-3, ECB-Nr: 01-211945 7013-49

XXX

Long-term exposure: 0.02 mg/m³, as NCO, Sen Short-term exposure (15-minute): 0.07 mg/m³

13 – 30 4,4' Methylenediphenyl diisocyanate

CAS: 101-68-8, EINECS/ELINCS: 202-966-0, EU-INDEX: 615-005-00-9

ECB Nr: 01-2119457014-47-XXXX

Long-term exposure: 0.02 mg/m³, as NCO, Sen Short-term exposure (15-minute): 0.07 mg/m³

DNEL

Range (%) Substance

13 – 30 4,4'-methylenediphenyl diisocyanate, CAS: 101-68-8

Industrial, inhalative, long-term – local effects: 0.05 mg/m³ Industrial, inhalative: long-term – systematic effects: 0.05 mg/m³

Industrial, inhalative, Acute – local effects: 0.1 mg/m³ Industrial, inhalative, Acute – local effects: 0.1 mg/m³ Industrial, dermal, acute – local effects: 28.7 mg/cm³ Industrial, dermal, acute – systematic effects: 50 mg/kg

PNEC

Range (%) Substance

13 – 30 4,4'-methylenediphenyl diisocyanate, CAS: 101-68-8

Sewage treatment plants (STP), >1 mg/l

Soil, >1 mg/kg Seawater, >0.1 mg/l Freshwater, >1 mg/l

Exposure controls

Additional advice on system design

Ensure adequate ventilation on work station Using suitable discharge or exhausts ventilation



Eye protection Safety glasses

Hand protection The details concerned are recommendations. Please contact the

glove supplier for further information

In full contact:

Butyl rubber, >480 min (EN 374) Nitrile rubber, >480 min (EN 374)

Viton, >480 min (EN 374)

Polychlorophene, >480 min (EN 374)

Skin Protection Impermeable protective and long-sleeved work clothing

Other Avoid contact with eyes and skin

Do not breathe vapour/spray

Personal protective equipment should be selected specifically for the Working place, depending on concentration and quantity of the Hazardous substances handled. The resistance of this equipment/s To chemicals should be ascertained with the respective supplier

Respiratory protection Breathing apparatus I nthe event of high concentrations

Short term: filter apparatus, filter A

Thermal hazards No information available

Delimination and monitoring

Of the environmental exposition Protect the environment by applying appropriate control to prevent

Or limit emissions

9. PHYSICAL AND CHEMICAL PROPERTIES:

Form Viscous liquid Colour Yellowish Odour characteristics **Odour threshold** not determined pH value not applicable pH value (1%) not applicable Boiling point (°C) not determined Flash point (°C) not determined Flammability (°C) not applicable not determined Lower explosion limit Upper explosion limit not determined

Oxidizing properties : no

Vapour pressure/gas pressure (kPa):not determinedDensity (g/ml):1.09 - 1.13 (20° C)Bulk Density (kg/m³):not applicable



Solubility in water : immiscible
Partition coefficient (n-octanol/water) : not determined

Viscosity : 600 – 1000 mPas (25°C)

Relative vapour density : not determined

determined in air

Evaporation speed : not determined

Melting point (°C) : not determined

Autoignition temperature (°C) : not determined

Decomposition temperature (°C) : not determined

10. STABILITY AND REACTIVITY:

Reactivity : no dangerous reactions known if used as directed

In closed containers rise of pressure

Chemical stability : Stable under normal ambient conditions (ambient

Temperature). Polymerization may occur at

elevated temperature.

Possibility of hazardous reactions: Reactions with water, with formation of carbon dioxide

Reactions with strong oxidizing agents

Exothermic reaction at: Reactions with alcohols Reactions with amines

Conditions to avoid : Strong heating

Water

Hazardous Decomposition :

vvater

nazardous Decomposition

In the event of fire: see SECTION 5

Products

Hazardous reaction : Hazardous polymerization will not occur

11. TOXICOLOGICAL INFORMATION:

Information of toxicological effects

Acute toxicity

Range (%) Substance

3 – 7 4,4'-Methylenediphenyldiisocyanate, oligomers, CAS: 25686-28-6

NOEC: < 4 mg/m³/90d (OECD 413) NOEC: 0.2 mg/m³ (OECD 453) LD50, dermal, rabbit: >9400 mg/kg LD50, oral, rat (female): > 5000 mg/kg LC50, inhalative, Rat: 0.49 mg/l/4h NOAEL, Rat: 12 mg/m³ (OECD 414)

13 – 30 4,4'-Methylenediphenyl diisocyanate, CAS: 101-68-8



Inhalative, conversion value: 1.5 mg/l/4h (dust/mist) LD50, dermal, Rabbit: >9400 mg/kg (OECD 402)

LD50, oral, Rat: > 2000 mg/kg

LC50, inhalative, Rat: >2.24 mg/l/1h (OECD 403) LC50, inhalative, Rat: 0.368 mg/l/4h (OECD 403)

Serious eye damage/irritation : irritant
Skin corrosion/irritation : irritant
Respiratory or skin sensitisation : Sensitizing

Specific target organ toxicity

Single exposure : STOT SE-3

Specific target organ toxicity

Repeated exposure : May cause damage to organs through prolonged or

repeated exposure if swallowed

Mutagenicity : no classification Reproduction toxicity : no classification

Carcinogenity : limited evidence of a carcinogenic effect

General remarks : The following applies to cyanogen compounds/nitriles

in general: utmost caution!

Release of hydrocyanic acid is possible – blockade of cellular respiration. Cardiovascular disorders, dyspnea,

unconsciousness

Toxicological data of complete product are not available. The toxicity data listed pertaining to the ingredients are intended for those working in the medical professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw

materials.

12. ECOLOGICAL INFORMATION:

Toxicity

Range (%) Substance

3 – 7 4,4'. Methylenediphenyldiisocyanate, oligomers, CAS: 25686-28-6

LC50, (96h), fish: > 1000 mg/l (OECD 203)

EC50, (24h), Daphnia magna: > 1000 mg/l (OECD 202)

EC50, Bacteria: > 100 mg/l/3h (OECD 209) EC50, (72h), Algae: >1640 mg/l (OECD 201)

NOEC, (21d), Daphnia magna: > 10 mg/l (OECD 211)

13 – 30 4,4'-methylenediphenyl diisocyanate, CAS: 101-68-8

LC50, (96h), Danio rerio: > 1000 mg/l (OECD 203) EC50, (3h), Bacteria: > 100 mg/l (OECD 209)



EC50, (24h), Daphnia magna: > 1000 mg/l (OECD 202) NOEC, (21d), Daphnia magna: > 10 mg/l (OECD 202)

ErCSO, (72h), Scenedesmus subspicatus: >1640 mg/l (OECD 201)

Persistence and degradability

Behaviour in environment compartments : not determined Behaviour in sewage plant : mot determined

Biological degradability : the product is not readily biodegradable

Bioaccumulative potential : log Pow: 4,51 (CAS 101-68-8)

BCF: 200 (CAS 101-68-8)

Mobility in soil : No information available

Results of PBT and vPvB assessment : Based on all available information not to be

Classified as PBT or vPvB

Other Adverse effects : The product is insoluble in water

Ecological data of complete product are not

available

The toxicity data pertaining to the ingredients

were supplied by the manufacturer of raw

materials

13. DISPOSAL CONSIDERATIONS:

Disposal must be in accordance with local and national legislation.

Disposal : Waste material must be disposed of in accordance with

the national and local regulations. Uncontaminated

packaging maybe taken for recycling

Packaging that cannot be cleaned should be disposed of

as for product

14. TRANSPORT INFORMATION:

UN proper shipping name

Transport by land according to ADR/RID: NO DANGEROUS GOODS

Inland navigation (AND) : NO DNAGEROUS GOODS

Marine transport in accordance with

IMDG : NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA : NOT CLASSIFIED AS "DANGEROUS GOODS"



15. REGULATORY INFORMATION:

EEC – REGULATIONS : 1967/548 (1999/45); 1991/689 (2001/118); 1999/13;

2004/42; 648/2004; 1907/2006 (Reach); 1272/2008;

75/324/EEC (2008/47/EC); 453/2010/EC

TRANSPORT REGULATIONS: DOT – classification, ADR (2013); IMDG-Code (2013, 36.

Arndt); IATA-DGR (2013)

NATIONAL REGULATIONS (GB) : EH40/2005 Workplace exposure limits (second edition,

Published December 2011 CHIP 3 / CHIP 4

16. OTHER INFORMATION:

The data and advice given apply when the product is used for the stated application or applications. The product is not sold as suitable for any other applications. Use of the product for applications other than as stated in the sheet may give rise to risks not mentioned in this sheet. The product should not be used other than for the stated application or applications without seeking advice from MATEX.

If the product has been purchased for supply to a third party for use at work, it is the purchaser's duty to take all necessary steps to ensure that any person handling of using the product is provided with the information in this sheet.

It is the responsibility and duty of the employer to inform employees and others who may be affected of hazards described in this sheet and of any precautions which should be taken.

This sheet does not constitute or substitute for the users own assessment of workplace risk, as required by other health and safety legislation.

Further copies of this Safety Data Sheet may be obtained from MATEX.

MATEX Rev-00-0724



NON HAZARDOUS – CHEMICAL IDENTIFICATION CODE NOT APPLICABLE

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

Product Name : HYDROTHANE HP, part B

HS Code : 32149090

Application : Two Component, Solvent Free Spray Applied Pure

Polyurea Coating

Manufacturer : MATEX CONSTRUCTION CHEMICALS

MANUFACTURING CO. L.L.C.

 Address
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 P.O. Box 29585

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Website : www.matex-global.com

2. HAZARDS IDENTIFICATION:

Classification of the substance or mixture According to (EC) No 1272/2008 (CLP)

Skin Corr. 1B: H314 Causes severe skin burns and eye damage

STOT RE 2: H373 may cause damage to organs through prolonged or repeated

exposure if swallowed

Acute Tox. 4: H302 Harmful if swallowed

Aquatic Chromic 1: H410 Very toxic to aquatic life with long lasting effects

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

Xn, Harmful – R21/22: Harmful in contact with skin and if swallowed

C, Corrosive – R34: Causes burns

Xn, Harmul – R48/22: Harmful – danger of serious damage to health by prolonged

exposure if swallowed

N, Dangerous for the environment – R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Labelling according to Regulation (EC) 1272/2008

Hazard Pictograms









Signal Word Danger

Contains Polyoxypropylenediamine

Diethylmethylbenzendiamine

Hazard Statements H314 Causes severe skin burns and eye damage

H373 May cause damage to organs through prolonged or repeated

Exposure if swallowed

H302 Harmful if swallowed

H410 Very toxic to aquatic life with long lasting effects

Precautionary Statements

P260 Do not breathe vapours/spray

P280 Wear protective gloves/protective clothing/eye protection/face

Protection

P301+P330+P331 IF SWALLOWED: rinse mouth. DO NOT induce vomiting

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all Contaminated clothing. Rinse skin with water/shower

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/doctor

P501 Dispose of contents/container to in accordance with local/regional/

National/international regulations

Other Hazards Further hazards were not determined with the current level of knowledge

3. COMPOSITION / INFORMATION ON INGREDIENTS:

The product is a mixture.

Range (%) Substance

60 – 80 Polyoxypropylenediamine

CAS: 9046-10-0

GHS/CLP: Acute Tox. 4: H302 – Skin Corr. 1 B: H314 – Eye Dam. 1: H318

Aquatic Chronic 3: H412 ECC: C, R22 – 34 – 52/53

15 – 25 Diethylmethylbenzenediamine

CAS: 68479-98-1, EINECS/ELINCS: 270-877-4, EU-INDEX: 612-130-00-0

ECB-Nr.: 01-2119486805-25-XXXX

GHS/CLP: Acute Tox. 4: H302 H312 - STOT RE 2: H373 - Eye Irrit. 2: H319 -

Augatic Acute 1: H400 – Aquatic Chronic 1: H410, M = 1

EEC: Xn-N, R 21/22-36-48/22-50/53



Comment on component parts Substances of very high concern – SVHC: substances are not contained or are below 0.1%. For full test of H-statement and R-phrases: see SECTION 16

4. FIRST AID MEASURES:

General Info : Take off contaminated clothing and wash before

reuse

Eyes : Irrigate immediately with copious quantities of water for

several minutes. Obtain medical attention urgently if

symptoms persist.

Skin : Wash off immediately with soap and water. Immediate

medical treatment necessary as untreated burns can

result in slow-healing wounds.

Inhalation : Remove from exposure, rest and keep him calm. If

Symptoms persist seek medical treatment

Ingestion : Wash out mouth with water. DO NOT induce vomiting.

Obtain medical attention

Most important symptoms and effects (both acute and delayed)

: Product is caustic, redness

Indication of any immediate medical attention and special treatment needed

: Treat symptomatically

: Keep under medical supervision for at least 48 hours

5. FIRE FIGHTING MEASURES:

Suitable Extinguishing Media

•

Foam, dry powder, water spray jet, carbon dioxide

Extinguishing media that must not

Be used : Full water jet

Specific Hazards : Oxides of carbon and nitrogen may be emitted.

Unknown risk of formation of toxic pyrolysis products

Special Protective Precaution and

Equipment : Fire fighters to wear self-contained breathing apparatus

and suitable protective clothing

: Do not inhale explosion and /or combustion gases

Fire residues and contaminated firefighting water must

be disposed of in accordance with local regulations



6. ACCIDENTAL RELEASE MEASURES:

Personal Precautions : Ensure adequate ventilation

: Use personal protective equipment

Remove persons to safety

Environmental Precautions : Prevent entry into drains, sewers and water courses.

After spillage/leakage : Prevent spread over a wide area (e.g by containment or

oil barriers

: In case of product spills into drains/surface waters/

groundwater, immediately inform the authorities
Pickup with absorbent material (e.g sand, universal

absorbent, diatomaceous earth)

Dispose of absorbed material in accordance with the

regulations

7. HANDLING AND STORAGE:

Precautions for safe handling : Ensure adequate ventilation

Use personal protective equipment

Remove persons to safety

Do not eat, drink, smoke or take drugs at work

Take off contaminated clothing and wash before reuse

Wash hands before breaks and after work

Use barrier skin cream

Conditions for safe storage, including any incompatibilities

: Prevent penetration into the ground

Keep only in original container

Do not store together with oxidizing agents

Keep container tightly closed

Keep container in a well-ventilated place Keep in a cool place. Store in a dry place Protect from heat/overheating and from sun

Protect from light

8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

Control Parameters

Ingredients with occupational exposure limits to be monitored (GB): not applicable



DNEL

Range (%) Substance

15 – 25 Diethlmethylbenzenediamine, CAS: 68479-98-1

Industrial, dermal, long-term – systemic effects: 1 mg/kg bw/day Industrial, inhalative, long-term systemic effects: 0.13 mg/m³

General population, oral, long-term – systemic effects: $0.1 \, \text{mg/kg}$ bw/day General population, dermal, long-term – systemic effects: $1 \, \text{mg/kgbw/day}$ General population, inhalative, long-term-systemic effects: $0.1 \, \text{mg/m}^3$

PNEC

Range (%) Substance

15 – 25 Diethlmethylbenzenediamine, CAS: 68479-98-1

Oral (food), 2 mg/kg Soil, 5,6 ug/kg

Sediment (seawater), 0.0029 mg/kg Sediment (freshwater), 0.029 mg/kg

Seawater, 0.00005 mg/l Freshwater, 0.0005 mg/l

Sewage treatment plants (STP), 17 mg/l

Exposure controls

Additional advice on system design

Ensure adequate ventilation on work station Using suitable discharge or exhausts ventilation

Eye protection Tightly fitting goggles

Hand protection The details concerned are recommendations. Please contact the

glove supplier for further information

In full contact:

Butyl rubber, >480 min (EN 374) Nitrile rubber, >480 min (EN 374)

Skin Protection Impermeable protective clothing

Other Avoid contact with eyes and skin

Do not breathe vapour/spray

Personal protective equipment should be selected specifically for the Working place, depending on concentration and quantity of the Hazardous substances handled. The resistance of this equipment/s To chemicals should be ascertained with the respective supplier

Respiratory protection If ventilation insufficient, ear respiratory protection

Short term: filter apparatus, filter A

Thermal hazards Not applicable



Delimination and monitoring

Of the environmental exposition Protect the environment by applying appropriate control to prevent Or limit emissions

9. PHYSICAL AND CHEMICAL PROPERTIES:

Viscous liquid **Form** Colour **Various** Odour amine-like Odour threshold not determined pH value not applicable pH value (1%) not applicable **Boiling point (°C)** not determined Flash point (°C) not determined Flammability (°C) not applicable Lower explosion limit not determined **Upper explosion limit** not determined

Oxidizing properties : no

Vapour pressure/gas pressure (kPa) : not determined

Density (g/ml) : 0.98 – 1.02 (20°C)

Bulk Density (kg/m³) : not applicable

Solubility in water : immiscible

Partition coefficient (n-octanol/water) : not determined

Viscosity : 400 – 800 mPas (25°C)

Relative vapour density : not determined

determined in air

Evaporation speed : not determined Melting point (°C) : not determined Autoignition temperature (°C) : not determined Decomposition temperature (°C) : not determined

10. STABILITY AND REACTIVITY:

Reactivity : no dangerous reactions known if used as directed

Chemical stability : Stable under normal ambient conditions (ambient

Temperature).

Possibility of hazardous reactions : Reactions with strong oxidizing agents



Conditions to avoid : Strong heating

Hazardous Decomposition

Products

In the event of fire: see SECTION 5

11. TOXICOLOGICAL INFORMATION:

Information of toxicological effects Acute toxicity

Product

ATE-mix, dermal, >2000 mg/kg ATE-mix, oral, > 300 - <2000 mg/kg

Range (%) Substance

60 - 80 Polyoxypropylenediamine, CAS: 9046-10-0

LD50, oral, Rat: 475 mg/kg

LD50, dermal, Rabbit: 2090 mg/kg

NOAEL, dermal, 40 mg/kg/d (subchronic) NOAEL, dermal, 1000 mg/kg/d (subacute) NOAEL, inhalative, 790 ppm (subacute)

15 – 25 Diethylmethylbenzenedimine, CAS: 68479-98-1

LD50, dermal, Rat: > 2000 mg/kg (OECD 402)

LD50, oral, Rat: 738 mg/kg (OECD 401) NOAEL, oral, Rat: > = 8 mg/kg/90d

NOAEL, dermal, Rabbit: > = 10 mg/kg/21d NOAEL, oral, Rat: > = 21 mg/kg/90d

NOEL, oral, Rat: 50 ppm/28d

NOEL, dermal, Rabbit: 1.0 mg/kg/21d

Serious eye damage/irritation : Product is caustic Skin corrosion/irritation : Product is caustic Respiratory or skin sensitisation : not determined

Specific target organ toxicity

single exposure : not determined

Specific target organ toxicity

repeated exposure : STOT RE 2

Mutagenicity : OECD 471 (in vitro), Ames-test: positive

OECD 473, Negative chromosomal aberration test

(in vitro)

OECD 474, Micronucleus test, negative (in vitro)

(CAS 68479-98-1)



Reproduction toxicity : not determined Carcinogenity : not determined

General remarks : May cause irritation of respiratory organs

in general: utmost caution!

Release of hydrocyanic acid is possible – blockade of cellular respiration. Cardiovascular disorders, dyspnea,

unconsciousness

Toxicological data of complete product are not available. The toxicity data listed pertaining to the ingredients are intended for those working in the medical professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials. The product was classified on the basis of the calculation procedure of the preparation directive.

12. ECOLOGICAL INFORMATION:

Toxicity

Range (%) Substance

60 – 80 Polyoxypropylenediamine, CAS: 9046-10-0

LD50, (96h), fish: > 100 mg/l

ED50, (48h), Daphnia magna: 15 mg/l

IC50, (72h), Algae: 135 mg/l

NOEC, (21d), Daphnia magna: > 10 mg/I (OECD 211)

15 – 25 Diethylmethylbenzenediamine, CAS: 68479-98-1

LC50, (96h), Pimephales promelas: > 106 mg/l (OECD 203) EC50, (24h), Pseudomonas putida: > 170 mg/l (DIN 38412-8)

EC50, (48h), Daphnia magna: 5.8 mg/l (OECD 202)

ErC50, (72h), Desmodesmus subspicatus: ca. 104 mg/l (OECD 201)

Persistence and degradability

Behaviour in environment compartments : not determined Behaviour in sewage plant : mot determined

Biological degradability : the product is not readily biodegradable

Bioaccumulative potential : BCF: 2.75 (CAS 68479-98-1)

logPow: 1.38 (20°C) (CAS 68479-98-1)

Mobility in soil : No information available

Results of PBT and vPvB assessment : Not applicable

Other Adverse effects : The product is insoluble in water

Ecological data of complete product are not

available



The product was classified on the basis of the calculation procedure of the preparation directive

The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials

13. DISPOSAL CONSIDERATIONS:

Disposal must be in accordance with local and national legislation.

Disposal : Waste material must be disposed of in accordance with

the national and local regulations. Uncontaminated

packaging maybe taken for recycling

Packaging that cannot be cleaned should be disposed of

as for product

14. TRANSPORT INFORMATION:

UN proper shipping name

Transport by land according to ADR/RID: UN 2735 Amines, liquid corrosive, n.o.s

(Polyoxypropylenediamine,

Diethylmethylbenzenediamine) (ENVIRONMENTALLY

HAZARDOUS) 8 III

Classification code

- Label



C7



- ADR LQ 5 I

- ADR 1.1.3.6 (8.6) Transport category (funnel restriction code) 3 €

Inland navigation (AND) : UN 2735 Amines, liquid, corrosive, n.o.s

(Polyoxypropylenediamine,

Diethylmethylbenzenediamine) (ENVIRONMENTALLY

HAZARDOUS) 8 III

Classification code C7

- Label







Marine transport in accordance with

IMDG : UN 2735 Amines, liquid, corrosive, n.o.s

(Polyoxypropylenediamine,

Diethylmethylbenzenediamine) 8 III MARINE

POLLUTANT

EMS F-A, S-B

- Label





IMDG LQ 5 I

Air transport in accordance with IATA : UN 2735 Amines, liquid corrosive, n.o.s

(Polyoxypropylenediamine,

Diethylmethylbenzenediamine) 8 III

- Label



15. REGULATORY INFORMATION:

EEC – REGULATIONS : 1967/548 (1999/45); 1991/689 (2001/118); 1999/13;

2004/42; 648/2004; 1907/2006 (Reach); 1272/2008;

75/324/EEC (2008/47/EC); 453/2010/EC

TRANSPORT REGULATIONS: DOT – classification, ADR (2013); IMDG-Code (2013, 36.

Arndt); IATA-DGR (2013)

NATIONAL REGULATIONS (GB) : EH40/2005 Workplace exposure limits (second edition,

Published December 2011 CHIP 3 / CHIP 4



16. OTHER INFORMATION:

The data and advice given apply when the product is used for the stated application or applications. The product is not sold as suitable for any other applications. Use of the product for applications other than as stated in the sheet may give rise to risks not mentioned in this sheet. The product should not be used other than for the stated application or applications without seeking advice from MATEX.

If the product has been purchased for supply to a third party for use at work, it is the purchaser's duty to take all necessary steps to ensure that any person handling of using the product is provided with the information in this sheet.

It is the responsibility and duty of the employer to inform employees and others who may be affected of hazards described in this sheet and of any precautions which should be taken.

This sheet does not constitute or substitute for the users own assessment of workplace risk, as required by other health and safety legislation.

Further copies of this Safety Data Sheet may be obtained from MATEX.

MATEX Rev-00-0724