

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date: 18.08.2023

Version number: 2.0 (replaces version 1.0)

Revision: 18.08.2023

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

1.1 Product identifier:

Trade name: IZ-C17+B**EC number:**

945-047-6

Registration number: 01-2120772317-50-0003

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

No further relevant information available.

Application of the substance / the preparation: Electroplating auxiliary

1.3 Details of the supplier of the safety data sheet:

Manufacturer/Supplier:Dipsol Europe GmbH
Merowingerplatz 1a
40225 Düsseldorf

Telefon: +49 (0) 211 157 6092 0

Telefax: +49 (0) 211 157 6092 10

E-mail: info@dipsol.eu<http://www.dipsol.eu>**Further information obtainable from:** Dipsol Europe GmbH**1.4 Emergency telephone number:** +49 (0) 211 157 6092 0 (during business hours)

SECTION 2: Hazards identification:

2.1 Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008:

GHS06 skull and crossbones

Acute Tox. 2 H330 Fatal if inhaled.



GHS05 corrosion

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

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Acute Tox. 4 H312 Harmful in contact with skin.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

2.2 Label elements:

Labelling according to Regulation (EC) No 1272/2008:

The substance is classified and labelled according to the CLP regulation.

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Hazard pictograms:



GHS05 GHS06

Signal word: Danger

Hazard-determining components of labelling:

Reaction mass of hydroxyethyl-DETA, DETA and dihydroxyethyl-DETA

Hazard statements:

H302+H312 Harmful if swallowed or in contact with skin.

H330 Fatal if inhaled.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

Precautionary statements:

P260 Do not breathe dusts or mists.

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

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards:

Results of PBT and vPvB assessment:

PBT: Not applicable.**vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients:

3.1 Substances:

CAS No. Description:

Reaction mass of hydroxyethyl-DETA, DETA and dihydroxyethyl-DETA

Identification number(s):

EC number: 945-047-6**Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures:

4.1 Description of first aid measures:

General information:

Take affected persons out into the fresh air.

Do not leave affected persons unattended.

Immediately remove any clothing soiled by the product.

After inhalation: Supply fresh air or oxygen; call for doctor.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

Call a doctor immediately.

After eye contact:

Rinse opened eye for several minutes under running water.

Call a doctor immediately.

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After swallowing:

Do not induce vomiting; call for medical help immediately.

Rinse out mouth and then drink plenty of water.

Call a doctor immediately.

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

No further relevant information available.

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

No further relevant information available.

SECTION 5: Firefighting measures:**5.1 Extinguishing media:****Suitable extinguishing agents:**CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.**5.2 Special hazards arising from the substance or mixture:**

Formation of toxic gases is possible during heating or in case of fire.

Carbon monoxide (CO)

Nitrogen oxides (NO_x)**5.3 Advice for firefighters:****Protective equipment:**

Mouth respiratory protective device.

Do not inhale explosion gases or combustion gases.

Additional information:

Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures:**6.1 Personal precautions, protective equipment and emergency procedures:**

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

Use respiratory protective device against the effects of fumes/dust/aerosol.

6.2 Environmental precautions: Do not allow product to reach sewage system or any water course.**6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

6.4 Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Keep receptacles tightly sealed.

Information about fire - and explosion protection: Keep ignition sources away - Do not smoke.**7.2 Conditions for safe storage, including any incompatibilities:****Storage:****Requirements to be met by storerooms and receptacles:**

Store only in the original receptacle.

Store in a cool location.

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Information about storage in one common storage facility:

Store away from foodstuffs.

Do not store together with acids.

Further information about storage conditions:

Protect from heat and direct sunlight.

Store in cool, dry conditions in well sealed receptacles.

Storage class: 6.1 A**7.3 Specific end use(s):** No further relevant information available.**SECTION 8: Exposure controls/personal protection:****8.1 Control parameters:****Ingredients with limit values that require monitoring at the workplace:** Not required.**DNELs:**

Route of exposure: Inhalation

Exposure duration: Long-term (chronic)

Effect: Systemic

Value: 15.4 mg/m³**8.2 Exposure controls:****Appropriate engineering controls:** No further data; see section 7.**Individual protection measures, such as personal protective equipment:****General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Do not inhale gases / fumes / aerosols.

Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Filter ABEK2-P3

Hand protection: Protective gloves**Material of gloves:**

Butyl rubber, BR

Recommended thickness of the material: ≥ 0.7 mm

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material:

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye/face protection: Tightly sealed goggles**SECTION 9: Physical and chemical properties:****9.1 Information on basic physical and chemical properties:****General Information:****Physical state:**

Fluid

Colour:

Light yellow

Odour:

Characteristic

Odour threshold:

Not determined.

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Melting point/freezing point:	-20 °C
Boiling point or initial boiling point and boiling range:	239.1 °C
Flammability:	Not applicable.
Lower and upper explosion limit:	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	125.5 °C
Decomposition temperature:	Not determined.
pH:	11.3-11.6
Viscosity:	
Kinematic viscosity:	Not determined.
Dynamic at 20 °C:	170 - 270 mPas
Solubility:	
water:	Fully miscible.
Partition coefficient n-octanol/water (log value):	Not determined.
Vapour pressure at 20 °C:	0.29 Pa
Vapour pressure at 40 °C:	1.075 Pa
Density and/or relative density:	
Density at 20 °C:	1-1.05 g/cm ³
Relative density:	Not determined.
Vapour density:	Not determined.

9.2 Other information:**Appearance:****Form:** Fluid**Important information on protection of health and environment, and on safety.:****Ignition temperature:** Product is not selfigniting.**Explosive properties:** Product does not present an explosion hazard.**Change in condition:****Evaporation rate:** Not determined.**Information with regard to physical hazard classes:****Explosives:** Void**Flammable gases:** Void**Aerosols:** Void**Oxidising gases:** Void**Gases under pressure:** Void**Flammable liquids:** Void**Flammable solids:** Void**Self-reactive substances and mixtures:** Void**Pyrophoric liquids:** Void**Pyrophoric solids:** Void**Self-heating substances and mixtures:** Void**Substances and mixtures, which emit flammable gases in contact with water:** Void**Oxidising liquids:** Void**Oxidising solids:** Void**Organic peroxides:** Void**Corrosive to metals:** Void

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Void

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SECTION 10: Stability and reactivity:

10.1 Reactivity: No further relevant information available.**10.2 Chemical stability:****Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions: Reacts with acids.**10.4 Conditions to avoid:** No further relevant information available.**10.5 Incompatible materials:** No further relevant information available.**10.6 Hazardous decomposition products:** Corrosive gases/vapours

SECTION 11: Toxicological information:

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:**Acute toxicity:**

Harmful if swallowed or in contact with skin.

Fatal if inhaled.

LD/LC50 values relevant for classification:**Reaction mass of hydroxyethyl-DETA, DETA and dihydroxyethyl-DETA**

Oral LD50 500 mg/kg (ATE)

Dermal LD50 1,100 mg/kg (ATE)

Inhalative LC50/4 h 0.05 mg/l (ATE)

Skin corrosion/irritation:

Causes severe skin burns and eye damage.

Serious eye damage/irritation:

Causes serious eye damage.

Respiratory or skin sensitisation:

May cause an allergic skin reaction.

Germ cell mutagenicity: Based on available data, the classification criteria are not met.**Carcinogenicity:** Based on available data, the classification criteria are not met.**Reproductive toxicity:** Based on available data, the classification criteria are not met.**STOT-single exposure:**

May cause respiratory irritation.

STOT-repeated exposure: Based on available data, the classification criteria are not met.**Aspiration hazard:** Based on available data, the classification criteria are not met.**11.2 Information on other hazards:****Endocrine disrupting properties:**

Substance is not listed.

SECTION 12: Ecological information:

12.1 Toxicity:**Aquatic toxicity:**

EC50 187 mg/l /72 h (algae)

12.2 Persistence and degradability: Easily biodegradable.**Other information:** 87 % after 21 days.**12.3 Bioaccumulative potential:** No further relevant information available.**12.4 Mobility in soil:** No further relevant information available.**12.5 Results of PBT and vPvB assessment:****PBT:** Not applicable.

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vPvB: Not applicable.

12.6 Endocrine disrupting properties:

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects:
Additional ecological information:
General notes: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

SECTION 13: Disposal considerations:

13.1 Waste treatment methods:
Recommendation:

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

European waste catalogue:

Dispose of contents/container in accordance with local/regional/national/international regulations.

Uncleaned packaging:
Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information:

14.1 UN number or ID number:
ADR, IMDG, IATA

UN2927

14.2 UN proper shipping name:
ADR

2927 TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S. (Reaction mass of hydroxyethyl-DETA, DETA and dihydroxyethyl-DETA)

IMDG, IATA

TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S. (Reaction mass of hydroxyethyl-DETA, DETA and dihydroxyethyl-DETA)

14.3 Transport hazard class(es):
ADR

Class:

6.1 Toxic substances.

Label:

6.1+8

IMDG

Class:

6.1 Toxic substances.

Label:

6.1/8

IATA

Class:

6.1 Toxic substances.

Label:

6.1 (8)

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14.4 Packing group:

ADR, IMDG, IATA

II

14.5 Environmental hazards:

Not applicable.

14.6 Special precautions for user:

Warning: Toxic substances.

Hazard identification number (Kemler code):

68

EMS Number:

F-A,S-B

Stowage Category:

B

Stowage Code:

SW2 Clear of living quarters.

14.7 Maritime transport in bulk according to IMO instruments:

Not applicable.

Transport/Additional information:**ADR****Limited quantities (LQ):**

100 ml

Transport category:

2

Tunnel restriction code:

D/E

UN "Model Regulation":

UN 2927 TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S. (REACTION MASS OF HYDROXYETHYL-DETA, DETA AND DIHYDROXYETHYL-DETA), 6.1 (8), II

SECTION 15: Regulatory information:**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:****Directive 2012/18/EU:**

Named dangerous substances - ANNEX I: Substance is not listed.

Seveso category: H2 ACUTE TOXIC

Qualifying quantity (tonnes) for the application of lower-tier requirements: 50 t

Qualifying quantity (tonnes) for the application of upper-tier requirements: 200 t

REGULATION (EC) No 1907/2006 ANNEX XVII: Conditions of restriction: 3

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II:

Substance is not listed.

REGULATION (EU) 2019/1148:Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3)):

Substance is not listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS:

Substance is not listed.

Regulation (EC) No 273/2004 on drug precursors:

Substance is not listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors:

Substance is not listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has been carried out.**SECTION 16: Other information:**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing SDS:

ADEEGO GmbH

Wildsteig 4A

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Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity – Category 4

Acute Tox. 2: Acute toxicity – Category 2

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
