



C-SYSTEMS ET 40 component B

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

1.1 Product Identifier

Commercial name : C-SYSTEMS ET 40 component B

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

Utilization of : Adhesive
substance/of the mixture

1.3. Details of the supplier of the safety data sheet Business name

CECCHI GUSTAVO & C. SRL. Address Via M. Coppino, 253

Location and State **55049 VIAREGGIO (LU) ITALY**

TEL. +39 0584 383694

FAX +39 0584 395182

e-mail of the competent person responsible for the safety data sheet: **info@cecchi.it**

Responsible for placing on the market: **CECCHI GUSTAVO & C. srl**

1.4. Emergency telephone number

For urgent information, contact: 0584/383694 office hours 8.30-12.30, 14.00-18.30
from Monday to Friday

SECTION 2: hazard identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) N. 1272/2008) Acute

toxicity, Category 4

H302: Harmful if swallowed.

Skin Corrosion, Category 1B

H314: Causes severe skin burns and eye damage.

Serious eye damage, Category 1

H318: Causes serious eye damage.

Skin sensitization, Category 1

H317: May cause an allergic skin reaction.



Chronic aquatic toxicity,
Category 3

H412: Harmful to aquatic life with long lasting effects.

2.2 Elements of the label

Labeling (REGULATION (EC) N. 1272/2008) Hazard pictograms :

Warning : Danger

Warning notices : H302 Harmful if swallowed.
H314 It causes serious skin burns and serious eye injuries.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.

Prudence advice : **Prevention:**
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P273 Do not disperse in the environment.
P280 Wear protective gloves/ clothing/ eye protection/ face protection.
Reaction:
P303 + P361 + P353 IN CASE OF CONTACT WITH LA SKIN (or hair): Take off all contaminated clothing immediately. Rinse skin/take a shower.
P304 + P340 + P310 IF INHALED: Transport the injured person in the open air and keep him at rest in a position that is comfortable for breathing. Immediately call a POISON CENTER/doctor.
P305 + P351 + P338 + P310 IN CASE OF CONTACT WITH EYES: Rinse thoroughly for several minutes. Remove any contact lenses if it is easy to do so. Continue rinsing. Contact a CENTER immediately

POISON CONTROLLER/a doctor.

Hazardous components to be indicated on the label:

2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2- (1-piperaziny)ethyl]amino]butyl-terminated

3,6-dioxaoctamethylenediamine

2,4,6-tris(dimethylaminomethyl)phenol



2-piperazin-1-ylethylamine

2.3 Other dangers

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at concentrations of 0.1% or greater.

SECTION 3: Composition/information on ingredients**3.2 Mixtures**

Chemical nature : Aliphatic amine

Hazardous components

Chemical Name	CAS No EC no Number of registration	Classification (REGULATION (EC) No. 1272/2008)	concentration And (%)
2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino]butylterminated	68683-29-4	Skin Irrit.2; H315 Eye Irrit.2; H319 Skin Sens.1; H317	> = 30 - < 50
3,6-dioxaoctamethylenediamine	929-59-9 213-203-6	Acute Tox.4; H302 Skin Corr.1B; H314 Skin Sens.1; H317	> = 20 - < 25
Trimethylolpropane poly(oxypropylene)triamine	39423-51-3	Acute Tox.4; H302 Acute Tox.4; H312 Eye Dam.1; H318 Aquatic Chronic2; H411	> = 12.5 - < 20
Poly[oxy(methyl-1,2-ethanediyl)], . alpha.-(2-aminomethylethyl)- . omega.-(2-aminomethylethoxy)-	9046-10-0	Skin Corr.1C; H314 Eye Dam.1; H318 Aquatic Chronic3; H412	> = 7 - < 10
2,4,6-tris(dimethylaminomethyl)phenol	90-72-2 202-013-9 01-2119560597-27	1C; H314 1; H318 Skin Sens.1B; H317	> = 5 - < 7
2-piperazin-1-ylethylamine	140-31-8 205-411-0 01-2119471486-30	Acute Tox.4; H302 Skin Corr.1B; H314 Skin Sens.1; H317 Aquatic Chronic3; H412 Acute Tox.3; H311 1; H318	> = 1 - < 2.5

For explanations of abbreviations see paragraph 16.



SECTION 4: first aid measures

4.1 Description of first aid measures

General information	: Show this safety data sheet to the attending physician. Keep warm in a quiet room. Take off all contaminated clothing immediately.
If inhaled	: Move to fresh air. Put the person concerned in a resting position and keep him warm. If unconscious, place on side in stable position and consult a doctor. If symptoms persist, consult a doctor. In case of irregular breathing or respiratory arrest, give artificial respiration.
In case of skin contact	: Wash off immediately with soap and plenty of water. Do not use solvents or thinners. If it gets on clothing, remove clothing. Burns must be treated by a doctor.
In case of contact with eyes	: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a physician. If this is easy, remove contact lenses, if they are worn.
If ingested	: DO NOT induce vomiting. If victim vomits while lying on back, turn to side. Call a doctor immediately. Give small quantities of water to drink.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	: Burn superficial burning sensation. Redness Severe irritation
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4.3 Indication of any immediate medical attention and special treatment needed

Treatment	: First Aid procedure should be agreed consulting the competent occupational physician.
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SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable

extinguishing media	: Carbon dioxide (CO ₂) Foam Dry powder
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Watery fog

Unsuitable extinguishing media : Not known.

5.2 Special hazards arising from the substance or mixture

Specific fire hazards : Pressure in hermetically sealed containers can increase under the effect of heat.
Cool closed containers near the flames with nebulised water.
Hazardous decomposition products in case of fire.

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self contained breathing apparatus independent air supply. Use personal protective equipment.

Further information : In case of fire and/or explosion do not breathe fumes.
Use extinguishing systems compatible with the local situation and the surrounding environment.
Immediately evacuate personnel to safe areas. Prevent water from fire extinguishers from contaminating surface water or groundwater.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Individual precautions : Refer to the protective measures listed in sections 7 and 8.
Evacuate personnel to safe areas. Use personal protective equipment. Provide adequate ventilation.
Inform the responsible authorities in the event of a gas leak, or if it enters pipes, soil or sewers.

6.2 Environmental precautions

Environmental precautions : Do not allow uncontrolled dumping of the product in the environment.
Prevent the material from entering drains or water courses.

Local authorities must be notified if leaks cannot be contained.

6.3 Methods and materials for containment and cleaning up

Cleaning methods : Dry with inert materials (e.g. sand, silica gel, acid binder, universal binder, sawdust). Contain and collect spillage with non-combustible absorbent material (such as sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local or national regulations (see section 13).



Collect and transfer to a properly labeled container.

6.4 Reference to other sections

See Section 8 for personal protective equipment.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Warnings for safe use	: Ensure sufficient air exchange and/or extraction in work environments. Do not breathe vapors or spray. Avoid inhalation, ingestion and contact with skin and eyes. Wear protective clothing. Persons with a history of skin hypersensitivity or asthma, chronic allergies or recurrent respiratory disease should not be employed in any process in which this mixture is used.
Indications against fire and explosion	: Keep away from open flames, hot surfaces and sources of ignition.
Hygiene measures	: Provide adequate ventilation. Wash hands and face before breaks and immediately after handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Warehouse and container requirements	: Keep containers tightly closed in a dry, cool and well ventilated. Keep in properly labeled containers. To preserve the quality of the product, do not store near a heat source and do not expose to direct light.
Additional information for the conditions of storage	: Protect from moisture.
Directions for the storage together with other products	: Keep away from isocyanates. Do not store near acids. Keep away from oxidizing agents.
Other information	: Stable under normal ambient temperature and conditions pressure.

7.3 Particular End Uses

Particular uses	: Consult the technical instructions for use of this substance/mixture.
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**SECTION 8: Exposure controls/personal protection****8.1 Control parameters**

Does not contain substances with occupational exposure limit values.

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Trimethylolpropane	: End use: Workers
poly(oxypropylene)triamine	Exposure routes: Skin contact
	Potential Health Effects: Long-term systemic effects
	Value: 1.6 mg/kg
	End use: Workers
	Route of Exposure: Inhalation
	Potential Health Effects: Long-term systemic effects
	Value: 14mg/m3
	End Use: Consumers Exposure
	Routes: Inhalation
	Potential Health Effects: Long-term systemic effects
	Value: 3.48 mg/m3
	End Use: Consumers
	Exposure routes: Skin contact
	Potential Health Effects: Long-term systemic effects
	Value: 0.8mg/kg
Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)-	: End use: Workers
	Exposure routes: Skin contact
	Potential Health Effects: Long-term systemic effects
	Value: 2.5 mg/kg
	End use: Workers
	Exposure routes: Skin contact
	Potential Health Effects: Long-term local effects Value: 0.623 mg/cm2
	End Use: Consumers
	Exposure routes: Skin contact
	Potential Health Effects: Long-term systemic effects
	Value: 1.25 mg/kg
	End Use: Consumers
	Exposure routes: Skin contact
	Potential Health Effects: Long-term local effects Value: 0.311 mg/cm2
	End Use: Consumers Exposure
	Routes: Ingestion
	Potential Health Effects: Long-term systemic effects
	Value: 0.04mg/kg
Silica, amorphous, fumed, cryst.-free	: End use: Workers
	Route of Exposure: Inhalation
	Potential Health Effects: Long-term local effects Value: 4 mg/m3
2-piperazin-1-ylethylamine	: End use: Workers



Exposure routes: Skin contact
Potential Health Effects: Short Term Exposure, Systemic Effects

Value: 20mg/kg

End use: Workers

Exposure routes: Skin contact

Potential Health Effects: Short Term Exposure, Local Effects

Value: 0.04mg/cm²

End use: Workers

Exposure routes: Skin contact

Potential Health Effects: Long-term systemic effects

Value: 3.3 mg/kg

End use: Workers

Route of Exposure: Inhalation

Potential Health Effects: Long-term systemic effects

Value: 3.6 mg/m³

End use: Workers

Exposure routes: Skin contact

Potential Health Effects: Long-term local effects Value: 0.006 mg/cm²

End Use: Consumers

Exposure routes: Skin contact

Potential Health Effects: Short Term Exposure, Systemic Effects

Value: 10mg/kg

End Use: Consumers Exposure

Routes: Inhalation

Potential Health Effects: Short Term Exposure, Systemic Effects

Value: 5.3mg/m³

End Use: Consumers Exposure

Routes: Ingestion

Potential Health Effects: Short Term Exposure, Systemic Effects

Value: 1.5mg/kg

End use: Workers

Route of Exposure: Inhalation

Potential Health Effects: Short Term Exposure, Systemic Effects

Value: 21.4 mg/m³

End Use: Consumers

Exposure routes: Skin contact

Potential Health Effects: Short Term Exposure, Local Effects

Value: 0.02mg/cm²

End Use: Consumers

Exposure routes: Skin contact

Potential Health Effects: Long-term systemic effects

Value: 1.7 mg/kg

End Use: Consumers Exposure

Routes: Inhalation

Potential Health Effects: Long-term systemic effects



term

Value: 0.9mg/m3

End Use: Consumers Exposure

Routes: Ingestion

Potential Health Effects: Long-term systemic effects

Value: 0.3mg/kg

End Use: Consumers

Exposure routes: Skin contact

Potential Health Effects: Long-term local effects Value: 0.003 mg/cm2

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:Trimethylolpropane
poly(oxypropylene)triamine

: Fresh water

Value: 0.0044 mg/l

Sea water

Value: 0.00044 mg/l

Intermittent releases

Value: 0.044 mg/l

Fresh water sediment

Value: 0.02 mg/kg

Marine sediment

Value: 0.002mg/kg

Soil

Value: 0.002mg/kg

Sewage treatment plant Value: 10
mg/lPoly[oxy(methyl-1,2-
ethanediyl)], .alpha.-(2-
aminomethylethyl)-.omega.-(2-
aminomethylethoxy)-

: Fresh water

Value: 0.015 mg/l

Sea water

Value: 0.0143 mg/l

Fresh water sediment

Value: 0.132 mg/kg

Marine sediment

Value: 0.125 mg/kg

Soil

Value: 0.0176mg/kg

Intermittent releases

Value: 0.15 mg/l

Sewage treatment plant Value: 7.5
mg/l

2-piperazin-1-ylethylamine

: Fresh water

Value: 0.058 mg/l

Sea water

Value: 0.0058 mg/l

Intermittent releases

Value: 0.58 mg/l

Fresh water sediment

Value: 215 mg/kg

Marine sediment

Value: 21.5 mg/kg

Soil

Value: 42.9 mg/kg



Sewage treatment plant Value: 250
mg/l

8.2 Exposure controls

Appropriate engineering controls

Effective exhaust ventilation system effective
ventilation in all process areas

Individual protection

Eye protection	: Safety glasses with side protection in accordance with to the EN166 standard Do not wear contact lenses. Make sure that eyewash stations and emergency showers are close to the workstation.
Hand protection	
Material	: Gloves resistant to chemicals, made of butyl rubber or category III nitrile rubber, according to EN 374.
Skin and body protection	: Protective suit
Respiratory protection	: Use a respirator during handling involving a possible exposure to the vapor of the product. The filter class of the respirator must be suitable for the maximum anticipated concentration of the contaminant (gas/ vapour/particulate) which could arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used. Vapor filter respirator (EN 141)
Protection measures	: Avoid contact with skin. Wear suitable protective clothing.

SECTION 9: physical and chemical properties

9.1 Information on basic physical and chemical properties I wait

	: liquid
Color	: orange
Odor	: ammoniacal
Olfactory threshold	: not determined
pH	: not determined
Melting point/freezing point	: Not applicable
Boiling point/range	: > 100°C
Flash point.	: 150°C



Evaporation rate	: not determined
Upper explosive limit	: Not applicable
Lower explosive limit	: Not applicable
Vapor pressure	: Not applicable
Relative vapor density	: not determined
Density	: 1 g/cm ³ (25 °C)
Apparent density	: not determined
Solubility/solubilities. Solubility in other solvents	: not determined
Partition coefficient: octanol/ water	: No data available
Temperature of self-ignition	: Not applicable
Thermal decomposition	: Method: No data available
Viscosity Viscosity, dynamics	: 85.000 - 130.000 mPa.s (25°C)
Viscosity, kinematics	: not determined
Explosive properties	: Not applicable
Oxidizing properties	: Not applicable

9.2 other information

Surface tension	: not determined
Sublimation point	: Not applicable

SECTION 10: stability and reactivity**10.1 Reactivity**

Stable under recommended storage conditions.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

dangerous reactions : Reacts with the following substances:



Acids
Strong oxidizing agents

10.4 Conditions to avoid

Conditions to avoid : No decomposition if used as directed instructions.

10.5 Incompatible materials

Materials to avoid : Strong acids
Strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products : This product can release the following:
Nitrogen oxides (NOx)
Carbon monoxide
Carbon dioxide (CO2)

SECTION 11: toxicological information**11.1 Information on toxicological effects****Acute toxicity****Product:**

Acute oral toxicity : Acute toxicity estimate : 1.198mg/kg
Method: Method of calculation

Acute dermal toxicity : Acute toxicity estimate : > 2,000 mg/kg
Method: Method of calculation

Components:**Trimethylolpropane poly(oxypropylene)triamine:**

Acute oral toxicity : LD50 (Rat, female): 550mg/kg
Method: OECD Test Guideline 425 GLP: yes

Acute dermal toxicity : LD50 (Rat, male and female): > 1,000 mg/kg
Method: OECD Test Guideline 402 GLP: yes

Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)-:

Acute oral toxicity : LD50 (Rat, male and female): 2,885.3 mg/kg
Method: OECD Test Guideline 401 GLP: yes

Acute dermal toxicity : LD50 (Rabbit, male and female): 2,979.7 mg/kg
Method: OECD Test Guideline 402 GLP: yes

2-piperazin-1-ylethylamine:

CECCHI GUSTAVO & C.

Via M. Coppino 253 - 55049 Viareggio (LU) ITALY

tel. +39 0584 383694 fax +39 0584 395182

www.cecchi.it info@cecchi.it



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Acute oral toxicity : LD50 (Rat, male): 2.097mg/kg

Acute dermal toxicity : LD50 (Rabbit, male): 866 mg/kg

Skin corrosion/irritation**Product:**

Remarks: Acute dermatitis/corrosion

Components:**Trimethylolpropane poly(oxypropylene)triamine:**

Species: On rabbit

Method: OECD Test Guideline 404 Result: Mild

skin irritation GLP: yes

Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.- (2-aminomethylethoxy)-:

Species: On rabbit

Method: OECD Test Guideline 404 Result:

Corrosive

2-piperazin-1-ylethylamine:

Species: On rabbit

Result: Corrosive

Serious eye damage/irritation**Product:**

Remarks: Severe eye irritation

Components:**Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.- (2-aminomethylethoxy)-:**

Method: OECD Test Guideline 405 Result: Risk of serious damage to eyes.

2-piperazin-1-ylethylamine:

Species: On rabbit

Result: Risk of serious damage to eyes.

Respiratory skin sensitisation**Product:**

Remarks: No data available

Components:**Trimethylolpropane poly(oxypropylene)triamine:**

Test Type: Buehler Test Route of Exposure: Dermal

Species: Guinea pig



Method: OECD Test Guideline 406 Result: Does not cause skin sensitisation. BPL: yes

2-piperazin-1-ylethylamine:

Test Type: Maximization Test

Route of Exposure: Dermal

Species: Guinea pig

Method: OECD Test Guideline 406

Result: May cause sensitization by skin contact.

Germ cell mutagenicity**Carcinogenicity****Reproductive toxicity****Specific target organ toxicity (STOT) - single exposure****Specific target organ toxicity (STOT) - repeated exposure****Repeated dose toxicity****Product:**

Remarks: No data available

Aspiration toxicity**Further information****Product:**

Remarks: No data available

SECTION 12: ecological information**12.1 Toxicity****Product:**

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

Components:**Trimethylolpropane poly(oxypropylene)triamine:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l
Exposure time: 96 h Type of test: Static test
Method: OECD Test Guideline 203 GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 13 mg/l
Exposure time: 48 hours



Type of test: Static test

Method: OECD TG 202

GLP: yes

Toxicity to algae

: EC50r (*Pseudokirchneriella subcapitata* (green algae)): 4.4 mg/l

Exposure time: 72 h Type of test: static test Method: OECD TG 201 GLP: yes

NOEC (*Pseudokirchneriella subcapitata* (green algae)): 1 mg/l

Exposure time: 72 h Type of test: static test Method: OECD TG 201 GLP: yes

Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)-:

Toxicity to fish

: LC50 (*Oncorhynchus mykiss* (rainbow trout)): > 15 mg/l

Exposure time: 96 h Type of test: Semi-static test Method: OECD Test Guideline 203 GLP: yes

Toxicity to daphnia and other aquatic invertebrates

: EC50 (*Daphnia magna* (Water flea)): 80 mg/l

Exposure time: 48 h Type of test: static test Method: OECD TG 202 GLP: yes

Toxicity to algae

: NOEC (*Pseudokirchneriella subcapitata* (green algae)): 0.32 mg/l

Exposure time: 72 h Type of test: static test Method: OECD TG 201 GLP: yes

2-piperazin-1-ylethylamine:

Toxicity to fish

: LC50 (*Pimephales promelas* (Chub)): 2.190 mg/l

Exposure time: 96 h Type of test: Static test

Toxicity to daphnia and other aquatic invertebrates

: EC50 (*Daphnia magna* (Water flea)): 58 mg/l

Exposure time: 48 h Method: OECD TG 202 GLP: yes

Toxicity to algae

: EC50r (*Selenastrum capricornutum* (green algae)): > 1,000 mg/l

Exposure time: 72 h Method: OECD TG 201 GLP: yes



12.2 Persistence and degradability

Product:

Biodegradability : Remarks: No data available

Components:**Trimethylolpropane poly(oxypropylene)triamine:**Biodegradability : Test type: aerobic
Result: Not readily biodegradable. Method: OECD
Test Guideline 301F GLP: yes**Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)-:**Biodegradability : Test type: aerobic
Result: Not readily biodegradable. Method:
OECD TG 301 B GLP: yes**2-piperazin-1-ylethylamine:**Biodegradability : Result: Not readily biodegradable.
Method: OECD Test Guideline 301F
GLP: yes

12.3 Bioaccumulative potential

Product:Bioaccumulation : Remarks: No data available
And**Components:****Trimethylolpropane poly(oxypropylene)triamine:**Partition coefficient: noctanol/ : log Pow: -1.13 (20°C)
water pH: 12.7
BPL: yes**Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)-:**Partition coefficient: noctanol/ : log Pow: 1.34 (25°C)
water Method: OECD TG
117 BPL: yes**2-piperazin-1-ylethylamine:**Partition coefficient: noctanol/ : log Pow: -1.48 (20°C)
water

12.4 Mobility in

hisComposes it nts:**|| 2-piperazin-1-ylethylamine:**Diffusion in the various environmental : Medium:Ground
compartments Koc: 37000



12.5 Results of PBT and vPvB assessment

Product:

Assessment

: This substance/mixture contains no components considered either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at concentrations of 0.1% or higher.

12.6 Other adverse effects

Product:

Additional ecological information

: Remarks: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

: In accordance with local and national regulations.
Dangerous container when empty. Do not dispose of as household waste.
Do not mix waste from different sources during collection.

Contaminated containers

: Empty containers should be transported to a site authorized for recycling or disposal.

SECTION 14: transport information

14.1 UN number

ADR/RID/ADN

: UN2735

IMDG extension

: UN2735

IATA

: UN2735

14.2 UN proper shipping name

ADR/RID/ADN

: CORROSIVE LIQUID AMINE, NOS
(Polyoxypropylenetriamine, Polyoxypropylenediamine)

IMDG extension

: AMINES, LIQUID, CORROSIVE, NOS
(Trimethylolpropane poly(oxypropylene)triamine,
Polyoxypropylene Diamine)

IATA

: Amines, liquid, corrosive, nos
(Trimethylolpropane poly(oxypropylene)triamine,
Polyoxypropylene Diamine)

14.3 Transport hazard classes

ADR/RID/ADN

: 8



IMDG extension : 8

IATA : 8**14.4 Packing group****ADR/RID/ADN**

Packing group : III

Classification code : C7

Hazard identification : 80

number

Labels : 8

IMDG extension

Packing group : III

Labels : 8

EmS Code : FA, SB

Remarks : IMDG Code segregation group 18 - Alkalis

IATA

Packing Instructions : 856

(Cargo Aircraft)

Packing Instructions : 852

(Passenger Aircraft)

Packing group : III

Labels : 8

14.5 Environmental hazards**ADR/RID/ADN**

Dangerous for the environment : no

IMDG extension

Marine pollutant : no

14.6 Special precautions for users Not applicable**14.7 Transport in bulk according to annex II of MARPOL 73/78 and the IBC code**

Not applicable to the product in its supplied form.

SECTION 15: Regulatory information**15.1 Safety, health and environmental laws and regulations specific to the substance or mixture**

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Not applicable

REACH - List of substances of very high concern candidates for authorization (Article 59). : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).



REACH - List of substances subject to authorization (Annex XIV)

: Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major accidents involving dangerous substances.
Not applicable

15.2 Chemical safety assessment Not applicable

SECTION 16: other information

Full text of the H-Statements

H302	: Harmful if swallowed.
H311	: Toxic in contact with skin. :
H312	Harmful in contact with skin.
H314	: It causes serious skin burns and serious eye injuries. :
H315	Causes skin irritation.
H317	: May cause an allergic skin reaction. : Causes
H318	serious eye damage.
H319	: Causes serious eye irritation.
H411	: Toxic to aquatic life with long lasting effects. : Harmful to
H412	aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Chronic	: Chronic aquatic toxicity : Serious eye
Eye Dam.	damage
Eye Irrit.	: Eye irritation
Skin Corr.	: Skin corrosion
Skin Irrit.	: Skin irritation
Skin Sens.	: Skin sensitization

Further information

Directions on training	: Provision of information, instructions to operators and training.
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The information contained in this Safety Data Sheet is correct according to our best knowledge of the product at the time of publication. This information is provided for the sole purpose of allowing the use, storage, transport and disposal of the product in the most correct and safest way. This information should not be considered a guarantee or specification of product quality. They refer only to the material specifically indicated and are not valid for the same when used in combination with other materials or in other processes not specifically indicated in the text of the Material Safety Data Sheet.