

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

C-SYSTEMS 10 10 CFS comp. B FAST – SAFETY DATA SHEET - july 2021 - n° batch 195-B1 - rev.1/20



C-SYSTEMS 10 10 CFS comp. B FAST

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

1.1 Product identifier

Trade name : 10 10 CFS BFast
UFI : JT10-J0WK-N00E-JSR6

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

Use of the Substance/Mixture

1.3 Details of the supplier of the safety data sheet

Company Cecchi Gustavo & C. srl - Via M. Coppino 253,
55049 Viareggio (LU) ITALY www.cecchi.it - info@cecchi.it

Information in case of emergency: +39 0584 383694 - info@cecchi.it

From monday to friday office hours 8:30 – 12:30, 14:00 – 18:30

1.1 Emergency telephone number

+39 0584 383694

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 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 sensitisation, Category 1	H317: May cause an allergic skin reaction.
Reproductive toxicity, Category 1B	H360: May damage fertility or the unborn child.
Specific target organ toxicity - repeated exposure, Category 2	H373: May cause damage to organs through prolonged or repeated exposure.
Long-term (chronic) aquatic hazard, Category 3	H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms :



Signal word : Danger

Hazard statements :

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H360	May damage fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements :

Prevention:

P201	Obtain special instructions before use.
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
P305 + P351 + P338 + P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.

Hazardous components which must be listed on the label:

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine

Amines, polyethylenepoly-, triethylenetetramine fraction

3-aminomethyl-3,5,5-trimethylcyclohexylamine

m-phenylenebis(methylamine)

2-piperazin-1-ylethylamine

2.3 Other hazards

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

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Amine Solution

Hazardous components

Chemical name	CAS-No. EC-No./List Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1- chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5- trimethylcyclohexylamine	38294-64-3 01-2119965165-33- 0011	Skin Corr.1B; H314 Eye Dam.1; H318 Skin Sens.1; H317 Aquatic Chronic3; H412	>= 30 - < 50
benzyl alcohol	100-51-6 202-859-9 01-2119492630-38	Acute Tox.4; H302 Acute Tox.4; H332 Eye Irrit.2; H319	>= 25 - < 30
Amines, polyethylenepoly-, triethylenetetramine fraction	90640-67-8 292-588-2 01-2119487919-13	Acute Tox.4; H302 Acute Tox.4; H312 Skin Corr.1B; H314 Skin Sens.1B; H317 Aquatic Chronic3; H412	>= 5 - < 7
3-aminomethyl-3,5,5- trimethylcyclohexylamine	2855-13-2 220-666-8 01-2119514687-32	Acute Tox.4; H302 Acute Tox.4; H312 Skin Corr.1B; H314 Eye Dam.1; H318 Skin Sens.1; H317 Aquatic Chronic3; H412	>= 3 - < 5
m-phenylenebis(methylamine)	1477-55-0 216-032-5 01-2119480150-50	Acute Tox.4; H302 Acute Tox.4; H332 Skin Corr.1B; H314 Skin Sens.1B; H317 Aquatic Chronic3; H412	>= 3 - < 5
2-piperazin-1-ylethylamine	140-31-8 205-411-0 01-2119471486-30	Acute Tox.4; H302 Acute Tox.3; H311 Skin Corr.1B; H314 Eye Dam.1; H318 Skin Sens.1; H317 Repr.2; H361 STOT RE1; H372	>= 3 - < 5

salicylic acid	69-72-7 200-712-3 01-2119486984-17	Acute Tox.4; H302 Eye Dam.1; H318 Repr.2; H361d	$\geq 1 - < 3$
2,4,6-tris(dimethylaminomethyl)phenol	90-72-2 202-013-9 01-2119560597-27	Acute Tox.4; H302 Skin Irrit.2; H315 Eye Irrit.2; H319	$\geq 1 - < 3$
4-nonylphenol, branched	84852-15-3 284-325-5 /	Acute Tox.4; H302 Skin Corr.1B; H314 Eye Dam.1; H318 Repr.2; H361fd Aquatic Acute1; H400 Aquatic Chronic1; H410	$\geq 1 - < 2,5$
4-Toluenesulfonic acid monohydrate	6192-52-5	Skin Irrit.2; H315 Eye Irrit.2; H319 STOT SE3; H335	$\geq 1 - < 5$
bisphenol A	80-05-7 201-245-8 01-2119457856-23	Eye Dam.1; H318 Skin Sens.1; H317 Repr.1B; H360F STOT SE3; H335 Aquatic Chronic2; H411	$\geq 0,5 - < 1$

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Show this safety data sheet to the doctor in attendance.
Keep warm and in a quiet place.
Take off all contaminated clothing immediately.
- If inhaled : Move to fresh air.
Keep patient warm and at rest.
If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.
If breathing is irregular or stopped, administer artificial respiration.
- In case of skin contact : Wash off immediately with soap and plenty of water.
Do NOT use solvents or thinners.
If on clothes, remove clothes.
Burns must be treated by a physician.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
If eye irritation persists, consult a specialist.
If easy to do, remove contact lens, if worn.



If swallowed : Do NOT induce vomiting.
If a person vomits when lying on his back, place him in the recovery position.
Call a physician immediately.
Give small amounts of water to drink.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Burn
superficial burning sensation
Redness
Severe irritation

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Carbon dioxide (CO₂)
Foam
Dry powder
Water mist

Unsuitable extinguishing media : None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : The pressure in sealed containers can increase under the influence of heat.
Cool closed containers exposed to fire with water spray.
Hazardous decomposition products formed under fire conditions.

5.3 Advice for firefighters

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

Further information : In the event of fire and/or explosion do not breathe fumes.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Immediately evacuate personnel to safe areas.
Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Refer to protective measures listed in sections 7 and 8.
Evacuate personnel to safe areas.
Use personal protective equipment.
Ensure adequate ventilation.
Inform the responsible authorities in case of gas leakage, or of entry into waterways, soil or drains.

6.2 Environmental precautions

Environmental precautions : Do not allow uncontrolled discharge of product into the environment.
Try to prevent the material from entering drains or water courses.
Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
Pick up and transfer to properly labelled containers.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms.
Do not breathe vapours or spray mist.
Avoid inhalation, ingestion and contact with skin and eyes.
Wear personal protective equipment.
Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Advice on protection 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

Requirements for storage areas and containers	: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labelled containers. To maintain product quality, do not store in heat or direct sunlight.
Further information on storage conditions	: Protect from moisture.
Advice on common storage	: Keep away from isocyanates. Do not store near acids. Keep away from oxidizing agents.
Other data	: Stable at normal ambient temperature and pressure.

7.3 Specific end use(s)

Specific use(s)	: Consult the technical guidelines for the use of this substance/mixture.
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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

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

benzyl alcohol	: End Use: Workers
	Exposure routes: Inhalation
	Potential health effects: Short-term exposure, Systemic effects
	Value: 450 mg/m ³
	End Use: Workers
	Exposure routes: Inhalation
	Potential health effects: Long-term exposure, Systemic effects
	Value: 90 mg/m ³
	End Use: Workers
	Exposure routes: Skin contact
	Potential health effects: Short-term exposure, Systemic effects
	Value: 47 mg/kg
End Use: Workers	
Exposure routes: Skin contact	
Potential health effects: Long-term exposure, Systemic effects	
Value: 9,5 mg/kg	
End Use: Consumers	
Exposure routes: Ingestion	
Potential health effects: Short-term exposure, Systemic effects	
Value: 25 mg/kg	
End Use: Consumers	
Exposure routes: Ingestion	
Potential health effects: Long-term exposure, Systemic effects	
Value: 5 mg/kg	
End Use: Consumers	
Exposure routes: Inhalation	
Potential health effects: Short-term exposure, Systemic effects	



	Value: 40,55 mg/m ³
	End Use: Consumers
	Exposure routes: Inhalation
	Potential health effects: Long-term exposure, Systemic effects
	Value: 8,11 mg/m ³
	End Use: Consumers
	Exposure routes: Skin contact
	Potential health effects: Short-term exposure, Systemic effects
	Value: 28,5 mg/kg
	End Use: Consumers
	Exposure routes: Skin contact
	Potential health effects: Long-term exposure, Systemic effects
	Value: 5,7 mg/kg
Amines, polyethylenepoly-, triethylenetetramine fraction	: End Use: Workers
	Exposure routes: Skin contact
	Potential health effects: Long-term systemic effects
	Value: 0,57 mg/kg
	End Use: Workers
	Exposure routes: Inhalation
	Potential health effects: Long-term systemic effects
	Value: 1 mg/m ³
	End Use: Consumer use
	Exposure routes: Skin contact
	Potential health effects: Long-term systemic effects
	Value: 0,25 mg/kg
	End Use: Consumers
	Exposure routes: Inhalation
	Potential health effects: Long-term systemic effects
	Value: 0,29 mg/m ³
	End Use: Workers
	Exposure routes: Inhalation
	Potential health effects: Short-term exposure
	Value: 5380 mg/m ³
2-piperazin-1-ylethylamine	: End Use: Workers
	Exposure routes: Skin contact
	Potential health effects: Short-term exposure, Systemic effects
	Value: 20 mg/kg
	End Use: Workers
	Exposure routes: Skin contact
	Potential health effects: Short-term exposure, Local effects
	Value: 0,04 mg/cm ²
	End Use: Workers
	Exposure routes: Skin contact
	Potential health effects: Long-term systemic effects
	Value: 3,3 mg/kg
	End Use: Workers
	Exposure routes: Inhalation
	Potential health effects: Long-term systemic effects
	Value: 3,6 mg/m ³
	End Use: Workers
	Exposure routes: Skin contact
	Potential health effects: Long-term local effects
	Value: 0,006 mg/cm ²
	End Use: Consumers

Exposure routes: Skin contact
 Potential health effects: Short-term exposure, Systemic effects
 Value: 10 mg/kg
 End Use: Consumers

Exposure routes: Inhalation
 Potential health effects: Short-term exposure, Systemic effects
 Value: 5,3 mg/m³
 End Use: Consumers

Exposure routes: Ingestion
 Potential health effects: Short-term exposure, Systemic effects
 Value: 1,5 mg/kg
 End Use: Workers

Exposure routes: 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: 0,02 mg/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
 Value: 0,9 mg/m³
 End Use: Consumers

Exposure routes: Ingestion
 Potential health effects: Long-term systemic effects
 Value: 0,3 mg/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:

benzyl alcohol	: Fresh water
	Value: 1 mg/l
	Marine water
	Value: 0,1 mg/l
	Fresh water sediment
	Value: 5,27 mg/kg
	Marine sediment
	Value: 0,527 mg/kg
	Soil
	Value: 0,456 mg/kg
Sewage treatment plant	
Value: 39 mg/l	
Intermittent releases	
Value: 2,3 mg/l	
Amines, polyethylenepoly-, triethylenetetramine fraction	: Sewage treatment plant
	Value: 4,25 mg/l
	Fresh water

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	Value: 0,135 mg/l
	Fresh water sediment
	Value: 2,08 mg/kg
	Marine water
	Value: 0,0027 mg/l
	Marine sediment
	Value: 0,123 mg/kg
	Soil
	Value: 1,67 mg/kg
	Intermittent releases
	Value: 0,2 mg/l
3-aminomethyl-3,5,5-trimethylcyclohexylamine	: Fresh water
	Value: 0,06 mg/l
	Marine water
	Value: 0,006 mg/l
	Intermittent releases
	Value: 0,23 mg/l
	Fresh water sediment
	Value: 5,784 mg/kg
	Marine sediment
	Value: 0,578 mg/kg
	Sewage treatment plant
	Value: 3,18 mg/l
	Soil
	Value: 1,121 mg/kg
2-piperazin-1-ylethylamine	: Fresh water
	Value: 0,058 mg/l
	Marine 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

Engineering measures

Effective exhaust ventilation system
effective ventilation in all processing areas

Personal protective equipment

Eye protection : Safety glasses with side-shields conforming to EN166
Do not wear contact lenses.
Ensure that eyewash stations and safety showers are close to the workstation location.

Hand protection

Material : Protective gloves complying with EN 374.



Skin and body protection	: Protective suit
Respiratory protection	: Use respirator when performing operations involving potential exposure to vapour of the product. The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used. Equipment should conform to EN 14387
Protective measures	: Avoid contact with skin. Wear suitable protective equipment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: liquid
Colour	: amber
Odour	: ammoniacal
Odour Threshold	: not determined
pH	: 11, 1 %
Melting point/freezing point	: Not applicable : > 150 °C
Flash point	: 100 °C
Evaporation rate	: not determined
Upper explosion limit	: Not applicable
Lower explosion limit	: Not applicable
Vapour pressure	: Not applicable
Relative vapour density	: not determined
Density	: 1,02 g/cm ³
Bulk density	: not determined
Solubility(ies) Solubility in other solvents	: not determined

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Partition coefficient: n-octanol/water	: No data available
Ignition temperature	: Not applicable
Auto-ignition temperature	: Not applicable
Thermal decomposition	: Method: No data available
Viscosity	
Viscosity, dynamic	: 450 - 650 mPa.s
Viscosity, kinematic	: 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

Hazardous reactions	: Reacts with the following substances: Acids Strong oxidizing agents
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10.4 Conditions to avoid

Conditions to avoid	: No decomposition if used as directed.
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10.5 Incompatible materials

Materials to avoid	: Strong acids Strong oxidizing agents
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10.6 Hazardous decomposition products

Hazardous decomposition products	: This product may release the following: Nitrogen oxides (NOx) Carbon monoxide Carbon dioxide (CO2)
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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

- Acute oral toxicity : Remarks: No data available
Acute toxicity estimate : 1.071 mg/kg
Method: Calculation method
- Acute inhalation toxicity : Acute toxicity estimate : > 5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: Calculation method
- Acute dermal toxicity : Acute toxicity estimate : > 2.000 mg/kg
Method: Calculation method

Components:**benzyl alcohol:**

- Acute inhalation toxicity : LC50 (Rat, male and female): > 4.178 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
GLP: yes

Amines, polyethylenepoly-, triethylenetetramine fraction:

- Acute oral toxicity : LD50 (Rat, male and female): 1.716 mg/kg
Method: OECD Test Guideline 401
GLP: yes
- Acute dermal toxicity : LD50 (Rabbit, male and female): 1.465 mg/kg
Method: OECD Test Guideline 402
GLP: yes

2-piperazin-1-ylethylamine:

- Acute oral toxicity : LD50 (Rat, male): 2.097 mg/kg
GLP: no
- Acute dermal toxicity : LD50 (Rabbit, male): 866 mg/kg
GLP: no

Skin corrosion/irritation**Product:**

Remarks: No data available

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Components:

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5:

Species: human skin

Assessment: Causes burns.

Method: OECD Test Guideline 431

Result: Causes burns.

GLP: yes

benzyl alcohol:

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

GLP: yes

Amines, polyethylenepoly-, triethylenetetramine fraction:

Species: Rabbit

Method: OECD Test Guideline 404

Result: Corrosive

GLP: yes

2-piperazin-1-ylethylamine:

Species: Rabbit

Result: Corrosive

bisphenol A:

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

GLP: yes

Serious eye damage/eye irritation

Product:

Remarks: No data available

Components:

benzyl alcohol:

Species: Rabbit

Method: OECD Test Guideline 405

Result: Eye irritation

GLP: yes

Amines, polyethylenepoly-, triethylenetetramine fraction:

Species: Rabbit

Method: OECD Test Guideline 405

Result: Risk of serious damage to eyes.

GLP: yes

2-piperazin-1-ylethylamine:

Species: Rabbit

Result: Risk of serious damage to eyes.

bisphenol A:

Species: Rabbit

Method: OECD Test Guideline 405

Result: Risk of serious damage to eyes.

GLP: yes

Respiratory or skin sensitisation

Product:

Remarks: No data available

Components:

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5:

Assessment: May cause sensitisation by skin contact.

Amines, polyethylenepoly-, triethylenetetramine fraction:

Test Type: Buehler Test

Species: Guinea pig

Method: OECD Test Guideline 406

Result: May cause sensitisation by skin contact.

GLP: yes

2-piperazin-1-ylethylamine:

Test Type: Maximisation Test

Exposure routes: Dermal

Species: Guinea pig

Method: OECD Test Guideline 406

Result: May cause sensitisation by skin contact.

Germ cell mutagenicity

Components:

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5:

Genotoxicity in vitro

: Test Type: Ames test

Test species: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

GLP: yes

Carcinogenicity

Reproductive toxicity

Components:

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5:

Effects on foetal development

: Test Type: Pre-natal

Species: Rat

Strain: Sprague-Dawley

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Application Route: Oral

General Toxicity Maternal: No observed adverse effect level:
100 mg/kg body weight

Teratogenicity: No observed adverse effect level: 250 mg/kg
body weight

Developmental Toxicity: No observed adverse effect level:
250 mg/kg body weight

Embryo-foetal toxicity: No observed adverse effect level: 250
mg/kg body weight

Method: OECD Test Guideline 414

GLP: yes

STOT - single exposure

STOT - repeated exposure

Repeated dose toxicity

Product:

Remarks: No data available

Components:

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5:

Species: Rat, male and female

NOAEL: 10 mg/kg

LOAEL: 100 mg/kg

Application Route: Oral

Exposure time: 90 d

Method: OECD Test Guideline 408

GLP: yes

Species: Rat, male and female

NOAEL: 30 mg/kg

Application Route: Oral

Exposure time: 28 d

Method: OECD Test Guideline 407

GLP: yes

Aspiration toxicity

Components:

3-aminomethyl-3,5,5-trimethylcyclohexylamine:

No aspiration toxicity classification

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:

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5:

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): 70,7 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): 11,1 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae : EL50 (Pseudokirchneriella subcapitata (green algae)): 79,4 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes

Toxicity to bacteria : (activated sludge): > 1.000 mg/l
Exposure time: 3 h
Test Type: Respiration inhibition
Method: OECD Test Guideline 209
GLP: yes

benzyl alcohol:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 230 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae : ErC50 (Pseudokirchneriella subcapitata (green algae)): 770 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes

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

tel. +39 0584 383694 fax +39 0584 395182

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Amines, polyethylenepoly-, triethylenetetramine fraction:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 31,1 mg/l
Exposure time: 48 h
Test Type: static test
Method: Directive 67/548/EEC, Annex V, C.2.
GLP: yes

Toxicity to algae : ErC50 (Selenastrum capricornutum (green algae)): 20 mg/l
Exposure time: 72 h
Test Type: semi-static test
Method: OECD Test Guideline 201
GLP: yes

3-aminomethyl-3,5,5-trimethylcyclohexylamine:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 110 mg/l
Exposure time: 96 h
Test Type: semi-static test
Method: Directive 67/548/EEC, Annex V, C.1.
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 23 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae : ErC50 (Scenedesmus capricornutum (fresh water algae)): > 50 mg/l
Exposure time: 72 h
Test Type: static test
Method: Directive 67/548/EEC, Annex V, C.3.
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 3 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Test Type: semi-static test
GLP: yes

2-piperazin-1-ylethylamine:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 2.190 mg/l
Exposure time: 96 h
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 58 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae : ErC50 (Selenastrum capricornutum (green algae)): > 1.000 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

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GLP: yes

bisphenol A:

Toxicity to fish : LC50 (Menidia menidia (Atlantic silverside)): 9,4 mg/l
Exposure time: 96 h
Test Type: flow-through test
Method: OECD Test Guideline 203
GLP: yes

12.2 Persistence and degradability.

Product:

Biodegradability : Remarks: No data available

Components:

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5:

Biodegradability : Test Type: aerobic
Inoculum: activated sludge
Result: Not biodegradable
Biodegradation: 0 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
GLP: yes

3-aminomethyl-3,5,5-trimethylcyclohexylamine:

Biodegradability : Test Type: aerobic
Result: Not readily biodegradable.
Method: Directive 67/548/EEC Annex V, C.4.A.
GLP: yes

2-piperazin-1-ylethylamine:

Biodegradability : Result: Not readily biodegradable.
Method: OECD Test Guideline 301F
GLP: yes

bisphenol A:

Biodegradability : Test Type: aerobic
Result: Readily biodegradable.
Method: OECD Test Guideline 301F
GLP: yes

12.3 Bioaccumulative potential.

Product:

Bioaccumulation : Remarks: No data available

Components:

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5:

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Bioaccumulation : Species: Fish
Bioconcentration factor (BCF): 5,13
Method: estimated

Partition coefficient: n- : log Pow: 3,6 (25 °C)
octanol/water pH: 7
Method: Regulation (EC) No. 440/2008, Annex, A.8
GLP: no

3-aminomethyl-3,5,5-trimethylcyclohexylamine:

Partition coefficient: n- : log Pow: 0,99
octanol/water Method: OECD Test Guideline 107
GLP: yes

2-piperazin-1-ylethylamine:

Partition coefficient: n- : log Pow: -1,48 (20 °C)
octanol/water

bisphenol A:

Partition coefficient: n- : log Pow: 3,4 (21,5 °C)
octanol/water pH: 6,4
Method: OECD Test Guideline 107
GLP: yes

12.4 Mobility in soil

Components:

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5:

Distribution among : log Koc: > 5,16
environmental compartments Method: OECD Test Guideline 121

2-piperazin-1-ylethylamine:

Distribution among : Medium:Soil
environmental compartments Koc: 37000

12.5 Results of PBT and vPvB assessment

Product:

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

12.6 Other adverse effects

Product:

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	: In accordance with local and national regulations. Container hazardous when empty. Do not dispose of with domestic refuse. Do not mix waste streams during collection.
Contaminated packaging	: Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: Transport information

14.1 UN number

ADR/RID/ADN	: UN 2735
IMDG	: UN 2735
IATA	: UN 2735

14.2 UN proper shipping name

ADR/RID/ADN	: AMINES, LIQUID, CORROSIVE, N.O.S. (BADGE-IPDA adduct)
IMDG	: AMINES, LIQUID, CORROSIVE, N.O.S. (BADGE-IPDA adduct)
IATA	: Amines, liquid, corrosive, n.o.s. (BADGE-IPDA adduct)

14.3 Transport hazard class(es)

ADR/RID/ADN	: 8
IMDG	: 8
IATA	: 8

14.4 Packing group

ADR/RID/ADN	
Packing group	: III
Classification Code	: C7
Hazard Identification Number	: 80
Labels	: 8
Tunnel restriction code	: E
IMDG	
Packing group	: III
Labels	: 8
EmS Code	: F-A, S-B
Remarks	: IMDG Code segregation group 18 - Alkalis
IATA	

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Packing instruction (cargo aircraft) : 856
Packing instruction (passenger aircraft) : 852
Packing group : III
Labels : 8

14.5 Environmental hazards

ADR/RID/ADN

Environmentally hazardous : no

IMDG

Marine pollutant : no

IATA

Environmentally hazardous : no

14.6 Special precautions for user

Remarks : The transport of dangerous goods, including their loading and unloading, must be done by people who received the necessary training required by Modal Regulations.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : bisphenol A
Number on list: 66

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : 4-nonylphenol, branched bisphenol A
Number on list: 66

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : 4-nonylphenol, branched

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

15.2 Chemical safety assessment

Not applicable

SECTION 16: Other information**Full text of H-Statements**

H302	: Harmful if swallowed.
H311	: Toxic in contact with skin.
H312	: Harmful in contact with skin.
H314	: Causes severe skin burns and eye damage.
H315	: Causes skin irritation.
H317	: May cause an allergic skin reaction.
H318	: Causes serious eye damage.
H319	: Causes serious eye irritation.
H332	: Harmful if inhaled.
H335	: May cause respiratory irritation.
H360F	: May damage fertility.
H361	: Suspected of damaging fertility or the unborn child.
H361d	: Suspected of damaging the unborn child.
H361fd	: Suspected of damaging fertility. Suspected of damaging the unborn child.
H372	: Causes damage to organs through prolonged or repeated exposure if inhaled.
H400	: Very toxic to aquatic life.
H410	: Very toxic to aquatic life with long lasting effects.
H411	: Toxic to aquatic life with long lasting effects.
H412	: Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Eye Dam.	: Serious eye damage
Eye Irrit.	: Eye irritation
Repr.	: Reproductive toxicity
Skin Corr.	: Skin corrosion
Skin Irrit.	: Skin irritation
Skin Sens.	: Skin sensitisation
STOT RE	: Specific target organ toxicity - repeated exposure
STOT SE	: Specific target organ toxicity - single exposure

Further information

Training advice	: Provide adequate information, instruction and training for operators.
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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.

CECCHI GUSTAVO & C.

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

tel. +39 0584 383694 fax +39 0584 395182

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