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10 3 component B FAST

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

1.1 Product Identifier

Commercial name : 10 3 component B FAST

UFI : UR40-S0D3-2008-1DJD

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

Type of application (use) : Hardener for epoxy resin

Usage Restrictions recommended

: Reserved for industrial and professional users.

1.3 Details of the supplier of the safety data sheet

Company : CECCHI GUSTAVO & C Srl

Via M. Coppino 253 - 55049 Viareggio (LU)

ITALY

Telephone : +39 0584 383694

Email address of the person responsible for the SDS: info@cecchi.it

1.4 Emergency telephone number

+ 44 1235 239670 (All languages)

CAVp "Hosp. Pediatric Bambino Gesù" Rome Piazza Sant'Onofrio, 4 00165 Tel.06-68593726

Az. Osp. Univ. Foggia Foggia V.le Luigi Pinto, 1 71122 Tel.0881-732326

Hospital "A. Cardarelli" Naples Via A. Cardarelli, 9 80131 Tel.081-7472870 CAV Policlinico

"Umberto I" Rome Viale del Policlinico, 155 00161 Tel.06-49978000 CAV Policlinico "A.

Gemelli" Rome Largo Agostino Gemelli, 8 00168 Tel.06-3054343

Hospital "Careggi" Medical Toxicology Unit Florence Largo Brambilla, 3 50134 Tel.055-7947819

CAV National Center for Toxicological Information Pavia Via Salvatore Maugeri, 10 27100

Tel.0382-24444

hosp. Niguarda Ca' Granda Milan Piazza Ospedale Maggiore,3 20162 Tel.02-66101029 Papa Giovanni XXII Hospital Bergamo Piazza OMS, 1 24127 Tel.800883300 Integrated University

Hospital (AOUI) of Verona Borgo Trento branch, Verona Tel. 800011858

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.

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Specific target organ toxicity - repeated H373: May cause damage to organs through exposure, Category 2 prolonged or repeated exposure.

Long-term (chronic) hazard to the aquatic environment, Category 2

H411: Toxic 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 H317 injuries. May cause an allergic skin reaction. H373 May cause damage to organs if exposed

prolonged or repeated.

H411 Toxic to aquatic life with long lasting effects.

Additional risk descriptions

EUH071

Corrosive to the respiratory tract.

Prevention: Cautionary advice

P260 Do not breathe mist or vapours. Do P273 not disperse in the environment.

P280 Wear gloves/protective clothing/eye protection

eyes/ face protection/ hearing protection.

Reaction:

P303 + P361 + P353 IN CASE OF CONTACT WITH THE SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin.

P304 + P340 + P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Immediately call a POISON CENTER/doctor.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove any contact lenses if it is easy to do so. Continue rinsing. Immediately call a POISON

CENTER/doctor.

P391 Collect spillage.

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Hazardous components to be indicated on the label: 3-

aminomethyl-3,5,5-trimethylcyclohexylamine

m-phenylenebis(methylamine)

4,4'-methylenebis(cyclohexylamine)

3,6,9,12-tetraazatetradecane-1,14-diamine

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

3,6,9-triazaundecane-1,11-diamino

3-aminopropyltriethoxysilane

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 higher.

Ecological information: The substance/mixture does not contain any components considered to have endocrine disrupting properties within the meaning of Article 57(f) of REACH or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain any components considered to have endocrine disrupting properties within the meaning of Article 57(f) of REACH or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Formulation based on aliphatic and cycloaliphatic amines

Components

Components			
Chemical Name	CAS No	Classification	concentration
	EC no		and (%w/w)
	INDEX NO		
	Number of		
	registration		

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Date of first edition: 03.11.2014 6.0 SDB IT 08.09.2022 Acute Tox. 4; H302 > = 20 - < 25 3-aminomethyl-3,5,5-2855-13-2 220-666-8 Skin Corr. 1B; H314 trimethylcyclohexylamine 612-067-00-9 Eye Dam. 1; H318 Skin 01-2119514687-32 Sens. 1A; H317 Aquatic Chronic 3; H412 limits of concentration specific Skin Sens. 1A: H317 > = 0.001% Estimation of toxicity sharp Acute toxicity for orally: 1.030 mg/kg 1477-55-0 Acute Tox. 4; H302 > = 20 - < 25 m-phenylenebis(methylamine) Acute Tox. 4; H332 216-032-5 01-2119480150-50 Skin Corr. 1B; H314 Skin Sens. 1B; H317 Aquatic Chronic 3; H412 EUH071 Acute Tox. 4; H302 1761-71-3 > = 20 - < 25 4,4'-methylenebis(cyclohexylamine) 217-168-8 Skin Corr. 1A; H314 01-2119541673-38 Skin Sens. 1; H317 STOT RE 2; H373 benzyl alcohol Acute Tox. 4; H302 100-51-6 > = 12.5 - < 20 202-859-9 Acute Tox. 4; H332 603-057-00-5 Eye Irrit. 2; H319 01-2119492630-38 3,6,9,12-tetraazatetradecane-4067-16-7 Skin Corr. 1B; H314 > = 7 - < 10 1.14-diamine 223-775-9 Skin Sens. 1; H317 612-064-00-2 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Acute Tox. 4; H302 Acute Tox. 4; H312 M-Factor (Toxicity acute for the environment aquatic): 1 M-Factor (Toxicity chronic for the aquatic environment):

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4,4'-Isopropylidenediphenol, 38294-64-3 Skin Corr. 1B; H314 > = 1 - < 2.5 Eye Dam. 1; H318 oligomeric reaction products with 1-500-101-4 chloro-2,3-epoxypropane, reaction 01-2119965165-33-Skin Sens. 1; H317 products with 3-0011 Aquatic Chronic 3; aminomethyl-3,5,5-H412 trimethylcyclohexylamine Acute Tox. 4; H302 3,6,9-triazaundecane-1,11-112-57-2 > = 1 - < 2.5 diamino 203-986-2 Acute Tox. 4; H312 612-060-00-0 Skin Corr. 1B: H314 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Chronic 2; H411 Estimation of toxicity sharp Acute toxicity for oral: 500 mg/kg Acute toxicity for cutaneous route: 1,100 mg/kg Acute Tox. 4; H302 > = 0.25 - < 0.5 3-aminopropyltriethoxysilane 919-30-2 213-048-4 Skin Corr. 1B; H314

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.

612-108-00-0

01-2119480479-24

Keep warm in a quiet room.

Take off all contaminated clothing immediately.

If inhaled : Take 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

Skin Sens. 1; H317

doctor.

If symptoms persist, consult a doctor. In case of irregular breathing or respiratory arrest, give artificial

respiration.

In case of skin contact : Wash 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.

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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

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : First Aid procedure should be agreed

consulting the competent occupational physician.

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable

extinguishing media : Carbon dioxide (CO2)

Foam Dry powder Watery fog

Unsuitable extinguishing

media

: Not known.

5.2 Special hazards arising from the substance or mixture

Specific dangers vs

the fire

: Pressure in hermetically sealed containers can

increase under the influence of heat.

Cool closed containers near the flames with nebulised

water.

Hazardous decomposition products in case of fire.

5.3 Advice for firefighters

Protection devices special for firefighters

: In the event of fire, wear self-contained breathing apparatus. 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.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Individual

precautions : Refer to 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 waterways.

Local authorities must be notified if leaks cannot be

contained.

6.3 Methods and materials for containment and cleaning up Methods

of reclamation : Dry with inert material (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

workplaces.

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.

Advice on protection against fire and :

explosions

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.

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7.2 Conditions for safe storage, including any incompatibilities

containers

Warehouse and container requirements: Keep containers tightly closed in a dry, cool and wellventilated place. 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.

Learn more about storage stability

: Stable under normal environmental conditions of

temperature and pressure.

7.3 Particular End Uses

Particular uses : Consult the technical instructions for use of this

substance/mixture.

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:

Name of the substance	Final use	Street of exposure	Potentials consequences on Health	Value
benzyl alcohol	Workers	Inhalation	Short exposure term, Effects systemic	450mg/m3
	Workers	Inhalation	Long exposure term, Effects systemic	90mg/m3
	Workers	Contact with skin	Short exposure term, Effects systemic	47 mg/kg
	Workers	Contact with skin	Long exposure term, Effects systemic	9.5mg/kg
	Consumers	Ingestion	Short exposure term, Effects systemic	25 mg/kg
	Consumers	Ingestion	Long exposure term, Effects systemic	5 mg/kg
	Consumers	Inhalation	Short exposure term, Effects systemic	40.55 mg/m3
	Consumers	Inhalation	Long exposure	8.11 mg/m3

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			term, Effects systemic	
	Consumers	Contact with skin	Short exposure term, Effects systemic	28.5mg/kg
	Consumers	Contact with skin	Long exposure term, Effects systemic	5.7mg/kg
3- aminopropyltriethoxy silane	Workers	Contact with skin	Acute systemic effects, Systemic effects a long term	8.3mg/kg
	Workers	Inhalation	Acute systemic effects, Systemic effects a long term	59 mg/m3
4.4'- Isopropylidenediphen ol, oligomeric reaction products with 1- chloro-2,3- epoxypropane, reaction products with 3-aminomethyl-3,5,5- trimethylcyclohexylam ine	Workers	Inhalation	Systemic effects a long term	0.493mg/m3
	Workers	Dermal	Systemic effects a long term	0.14mg/kg
	Consumers	Inhalation	Systemic effects a long term	0.074 mg/m3
	Consumers	Dermal	Systemic effects a long term	0.05mg/m3
	Consumers	Oral	Systemic effects a long term	0.05mg/m3

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

Substance name	Environmental compartment	Value
3-aminomethyl-3,5,5-	Fresh water	0.06 mg/l
trimethylcyclohexylamine		
	Sea water	0.006 mg/l
	Intermittent releases	0.23 mg/l
	Fresh water sediment	5.784 mg/kg
	Marine sediment	0.578mg/kg
	Sewage treatment plant	3.18 mg/l
	Soil	1.121mg/kg
benzyl alcohol	Fresh water	1 mg/l
	Sea water	0.1 mg/l
	Fresh water sediment	5.27mg/kg
	Marine sediment	0.527mg/kg
	Soil	0.456mg/kg
	Sewage treatment plant	39 mg/l
	Intermittent releases	2.3 mg/l
3-aminopropyltriethoxysilane	Fresh water	0.33 mg/l
-	Sea water	0.033 mg/l
	Intermittent releases	3.3 mg/l

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432mg/kg

864mg/kg

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0.26mg/kg Fresh water sediment Soil 0.04mg/kg Sewage treatment plant 13 mg/l 4,4'-Isopropylidenediphenol, Fresh water 0.011 mg/l oligomeric reaction products with 1chloro-2,3-epoxypropane, reaction products with 3aminomethyl-3,5,5trimethylcyclohexylamine 0.001 mg/l Sea water Sewage treatment plant 10 mg/l Fresh water sediment 4320mg/kg

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 according to

Soil

to the EN166 standard

Marine sediment

Do not wear contact lenses.

Make sure that eyewash stations and emergency showers

are close to the workstation.

Hand protection

Material : Protective gloves according to EN 374.

Remarks : Nitrile rubber

Skin and body protection : Protection suit

Preventive skin protection recommended

Respiratory protection : Use a respirator during handling involving possible

exposure to product vapor.

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.

Suggested filter type:

Filter - ABEK

The equipment must comply with EN 14387

Protection arrangements : Avoid contact with skin. Wear suitable

protective clothing.

SECTION 9: physical and chemical properties

9.1 Information on basic physical and chemical properties

physical state : liquid

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Color : light yellow

Odor : ammoniacal

Olfactory threshold : not determined

Melting point/freezing

point

: Not applicable

Boiling point/range : > 150 °C

Upper explosion limit: Not applicable / Upper limit

ot

flammability

Lower explosion limit /: Not applicable Lower limit

of

flammability

Flash point : 100°C

Ignition temperature : Not applicable

Temperature of

self-ignition

: Not applicable

Temperature of : No data available

decomposition

pH : 11

Concentration: 1%

Viscosity

Viscosity, dynamics : 30 - 80 mPa.s (25 °C)

Viscosity, kinematics : not determined

Solubility/solubilities.

Water solubility : not determined

Solubility in other solvents : not determined

Partition coefficient: n-: No data available octanol/water

Vapor pressure : not determined

Density : 1.04 g/cm 3 (25 °C)

Apparent density : not determined

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Relative vapor density : not determined

Particle characteristics

particle size :Not applicable

Particle size: Not applicable

9.2 Other Information

Explosives : Not applicable

Oxidizing properties : Not applicable

Self-ignition : Not applicable

Evaporation rate : not determined

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 according to the specific

instructions.

10.5 Incompatible materials

Materials to avoid : Strong acids

Strong oxidizing agents

10.6 Hazardous decomposition products

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

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SECTION 11: toxicological information

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

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate: 622.24 mg/kg

Method: Method of calculation

Acute toxicity for : Acute toxicity estimate: > 5 mg/l

inhalation Exposure time: 4 h

Test atmosphere: dust/mist Method: Calculation method

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

Method: Calculation method

Acute toxicity (by other routes :

of administration) Remarks: No data available

Components:

3-aminomethyl-3,5,5-

trimethylcyclohexylamine: Acute oraAtoxtieitoxicity estimate: 1,030 mg/kg

Method: Estimation of acute toxicity according to Regulation

(EC) No. 1272/2008

benzyl alcohol:

Acute toxicity for : LC50 (Rat, male and female): 4 mg/l

inhalation Exposure time: 4 h

Test atmosphere: dust/fog

Method: OECD Test Guideline 403 GLP: yes

3,6,9-triazaundecane-1,11-diamino:

Acute oral toxicity : Acute toxicity estimate: 500 mg/kg

Method: Conversion into point estimate of acute toxicity

Acute dermal toxicity : Acute toxicity estimate: 1,100 mg/kg

Method: Conversion into point estimate of acute toxicity

Skin corrosion/irritation

Product:

Remarks : No data available

Components:

benzyl alcohol:

Species : On rabbit

Method : OECD Test Guideline 404 No skin

Result : irritation

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BPL : Yes

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

Species : human skin
Assessment : Causes burns.

Method : OECD Test Guideline 431 Causes

Result : burns. BPL : Yes

Serious eye damage/irritation

Product:

Remarks : No data available

Components:

benzyl alcohol:

Species : On rabbit

Method : OECD Test Guideline 405 Irritating to

Result : eyes BPL : 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-trimethylcyclohexylamine:

Assessment : May cause sensitization by skin contact.

3-aminopropyltriethoxysilane:

Test type : Buehler test Route of exposure : Dermal Species : Guinea pig

Method : OECD Test Guideline 406

Result : May cause sensitization by skin contact. Yes

BPL :

Germ cell mutagenicity

Components:

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

In vitro genotoxicity : Test type: Ames test

Test system: Salmonella typhimurium

Metabolic activation: with or without metabolic activation

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Method: OECD Test Guideline 471 Result:

negative BPL: yes

Carcinogenicity

Product:

Remarks : No data available

Reproductive toxicity

Product:

Effects on fertility : Remarks: No data available

Effects on fetal development : 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-trimethylcyclohexylamine:

Effects on fetal development : Test Type: Prenatal

Species: Rat

Strain: Sprague-Dawley Method of application: Oral

General Toxicity Maternal: NOAEL: 100 mg/kg body

weight

Teratogenicity: NOAEL: 250 mg/kg body weight

Developmental Toxicity: NOAEL: 250 mg/kg body weight Embryo-fetal Toxicity: NOAEL: 250 mg/kg body weight

Method: OECD Test Guideline 414

BPL: yes

Specific target organ toxicity (STOT) - single exposure

Product:

Remarks : No data available

Specific target organ toxicity (STOT) - repeated exposure

Product:

Remarks : No data available

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-trimethylcyclohexylamine:

Species : Rat, male and female 10

NOAEL extension : mg/kg

15/24

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LOAEL extension : 100mg/kg
Method of application : Oral
Exposure time : 90 d

Method : OECD Test Guideline 408 yes

BPL

Species : Rat, male and female 30

NOAEL extension : mg/kg
Method of application : Oral
Exposure time : 28 d

Method : OECD Test Guideline 407 yes

BPL :

Aspiration toxicity

Components:

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

There is no classification for aspiration toxicity

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture contains no considered components

having endocrine disrupting properties within the meaning

of Article 57(f) of REACH or Commission Delegated

Regulation (EU) 2017/2100 or Commission Regulation (EU)

2018/605 at levels of 0.1% or higher.

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:

3-aminomethyl-3,5,5-

trimethylcyclohexylamine: Toxicity td 6560 (Leuciscus idus (Golden Leuciscus)): 110 mg/l

Exposure time: 96 h

Type of test: Semi-static test

Method: Directive 67/548/EEC, Annex V, C.1. BPL:

yes

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Toxicity to daphnia and other aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 23 mg/l Exposure

time: 48 h

Type of test: Static test

Method: OECD Test Guideline 202 GLP: yes

Toxicity to algae/aquatic

plants

EC50r (Scenedesmus capricornutum (Freshwater algae)):

> 50 mg/l

Exposure time: 72 h Type of

test: Static test

Method: Directive 67/548/EEC, Annex V, C.3. BPL:

yes

Toxicity to daphnia and other aquatic invertebrates

(Chronic toxicity)

: NOEC: 3mg/l Exposure time: 21 d

exposure time. 21 d

Species: Daphnia magna (Water flea) Test type:

semi-static test

BPL: 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/aquatic

plants

: EC50r (Pseudokirchneriella subcapitata (green algae)): 770

mg/l

Exposure time: 72 h Type of

test: Static test

Method: OECD Test Guideline 201 GLP: yes

3,6,9,12-tetraazatetradecane-1,14-diamine:

M-Factor (Acute toxicity: 1 to the

aquatic environment)

M-Factor (Chronic aquatic

toxicity)

: 1

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

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): 70.7

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

to daphnia and : EL50 (Daphnia magna (Water flea)): 11.1 mg/l Exposure

time: 48 h

Type of test: Static test

Method: OECD Test Guideline 202

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BPL: yes

Toxicity to algae/aguatic

plants

: EL50 (Pseudokirchneriella subcapitata (green algae)): 79.4

mg/l

Exposure time: 72 h Type of

test: Static test

Method: OECD Test Guideline 201 GLP: yes

Toxicity to : (activated sludge): > 1,000 microorganisms mg/l Exposure time: 3 h

Test Type: Respiration inhibitor Method: OECD

Test Guideline 209 GLP: yes

3-aminopropyltriethoxysilane:

Toxicity to fish : LC50 (Danio rerio (zebrafish)): > 934 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)): 331 mg/l Exposure

time: 48 h

Type of test: Static test

Method: OECD Test Guideline 202 GLP: yes

Toxicity to algae/aquatic

plants

: EC50 (Scenedesmus subspicatus): > 1,000 mg/l

Exposure time: 72 h
Type of test: Static test

Method: Directive 67/548/EEC, Annex V, C.3. BPL:

yes

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: No data available

Physico-chemical elimination : Remarks: No data available

Components:

 ${\bf 3-aminomethyl-3,5,5-trimethylcyclohexylamine:}$

Biodegradability : Test type: aerobic

Result: Not readily biodegradable. Method: Directive 67/548/EEC, Annex V, C.4.A. BPL: yes

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

Biodegradability : Test type: aerobic Inoculum:

activated sludge

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Result: Non-biodegradable Biodegradation: 0 % Exposure time: 28 d

Method: OECD Test Guideline 301F GLP: yes

3-aminopropyltriethoxysilane:

Biodegradability : Test type: aerobic

Result: Not readily biodegradable. Method: Directive 67/548/EEC, Annex V, C.4.A. BPL: yes

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data available

Components:

${\bf 3-aminomethyl-3,5,5-trimethyl cyclohexylamine:}$

Partition coefficient: n-: log Pow: 0.99

octanol/water Method: OECD Test Guideline 107 GLP: yes

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

reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine:

Bioaccumulation : Species: Fish

Bioconcentration factor (BCF): 5.13

Method: evaluated

Partition coefficient: n-: log Pow: 3.6 (25°C)

octanol/water pH: 7

Method: Regulation (EC) n. 440/2008, annex, A.8

GLP: no

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-trimethylcyclohexylamine:

Diffusion in the various sectors: log Koc: > 5.16

environmental Method: OECD Test Guideline 121

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.

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12.6 Endocrine-disrupting properties

Product:

Assessment : The substance/mixture contains no considered components

having endocrine disrupting properties within the meaning

of Article 57(f) of REACH or Commission Delegated

Regulation (EU) 2017/2100 or Commission Regulation (EU)

2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Product:

Additional ecological

information

: 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 taken to an approved site

for recycling or disposal.

SECTION 14: transport information

14.1 UN number or ID number

 ADR/RID/ADN
 : UN 2735

 IMDG extension
 : UN 2735

 IATA
 : UN 2735

14.2 UN proper shipping name

ADR/RID/ADN : CORROSIVE LIQUID AMINES, NOS

(Isophoronediamine, Pentaethylenehexamine)

IMDG extension : AMINES, LIQUID, CORROSIVE, NOS

(ISOPHORONEDIAMINE, Pentaethylenehexamine)

IATA : Amines, liquid, corrosive, nos (Isophorone

diamine, Pentaethylenehexamine)

14.3 Transport hazard classes

ADR/RID/ADN : 8

IMDG extension : 8

IATA : 8

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14.4 Packing group

ADR/RID/ADN

Packing group : III
Classification code : C7
Hazard identification : 80

number

Labels : 8
Tunnel restriction code : AND

IMDG extension

Packing group : III
Labels : 8
EmS Code : FA, SB

Remarks : IMDG Code segregation group 18 - Alkalis

IATA (Cargo)

Packing Instructions : 856

(Cargo Aircraft)

Packing group : III

Labels : Corrosive

IATA (Passenger)

Packing Instructions : 852

(Passenger Aircraft)

Packing instruction (LQ) : Y841 Packing group : III

Labels : Corrosive

14.5 Environmental hazards

ADR/RID/ADN

Dangerous for the environment : Yes

IMDG extension

Marine pollutant : Yes

IATA (Cargo)

Dangerous for the environment : Yes

14.6 Special precautions for users Remarks

: The transport of dangerous goods, including loading and unloading, must be carried out by persons who have received the necessary training required by the modal regulations.

The transport classification(s) provided herein are for informational purposes only and based solely on the properties of the unpackaged material as described in this MSDS. Shipping classifications may vary based on mode of transportation, package sizes, and changes in regional or country regulations.

14.7 Shipping in bulk in accordance with IMO acts Not applicable to the product in its supplied form.

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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)

 The restriction conditions for the following items have to be considered:

Number in list: 3
: Not applicable

 ${\sf REACH-Candidate\ List\ of\ Substances\ of\ Very\ High}$

Concern for Authorization (Article 59).

Regulation (EC) no. 1005/2009 on substances that

deplete the ozone layer

: Not applicable

Regulation (EU) 2019/1021 on persistent organic

pollutants (recast)

: Not applicable

Regulation (EC) no. 649/2012 of the European Parliament: Not applicable

and of the Council on the export and import of

dangerous chemicals

REACH - List of substances subject to

authorization (Annex XIV)

: Not applicable

REGULATION (EU) 2019/1148 on the placing on the market and use of explosives precursors

: Not applicable

International Chemical Weapons Convention (CWC), : Not applicable list of chemical precursors and toxic products

Regulation (EC) no. 111/2005 of the Council containing rules for the control of trade in drug precursors between

the Community and third countries

: Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

E2 DANGERS FOR THE ENVIRONMENT

Other legislations

: Referring to the product composition, we intentionally do not add any of the substances listed in the European Directive 2011/65/EU (RoHS 2, RoHS3 and China RoHS).

Consequently, the product is in line with these directives. We do not intentionally add conflict minerals to the product.

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15.2 Chemical safety assessment Not

applicable

SECTION 16: other information

Full text of the H-Statements

H302 : Harmful if swallowed.

H312 : Harmful in contact with skin.

H314 : It causes serious skin burns and serious eye

H317 : injuries. May cause an allergic skin reaction. Causes

H318 : serious eye damage.

H319 : Causes serious eye irritation.

H332 : Harmful if inhaled.

H373 : May cause damage to organs through prolonged or

repeated exposure if swallowed.

H400 : Very toxic to aquatic organisms.

H410 : Very toxic to aquatic life with long lasting effects.

H411 : Toxic to aquatic life with long lasting effects. Harmful to H412 : aquatic life with long lasting effects. Corrosive to the

EUH071 : respiratory tract.

Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Acute : Short-term (acute) aquatic hazard Long-term (chronic)

Aquatic Chronic : aquatic hazard Serious eye damage

Eye Dam.

Eye Irrit. : Eye irritation
Skin Corr. : Skin corrosion
Skin Sens. : Skin sensitization

STOT RE : Specific target organ toxicity - repeated exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the international carriage of dangerous goods by road; AIIC - Australian Inventory of Industrial Chemicals; ASTM -American Society for Testing of Materials; bw - Body weight; CLP - Classification, Labeling and Packaging Regulation; Regulation (EC) No. 1272/2008; CMR - Carcinogenic, mutagenic or toxic to reproduction; DIN - Standard of the German Institute for Standardization; DSL - Domestic List of Substances (Canada); ECHA - European Chemicals Agency; EC-Number - European Community Number; ECx -Concentration associated with x% response; ELx - Load rate associated with x% response; EmS - Emergency Program; ENCS -Existing and New Chemicals (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk; IC50 - Half the concentration maximal inhibitory; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemicals China; IMDG - International Maritime Transport of Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Inventory of Existing Chemicals; LC50 -50% lethal concentration for a test population; LD50 - 50% lethal dose for a test population (median lethal dose); MARPOL -International Convention for the Prevention of Pollution from Ships: nos - not otherwise specified: NO(A)EC - No (Adverse) Effect Concentration - not otherwise specified; NO(A)EC - No (Adverse) Effect Concentration - not otherwise specified; NO(A)EC - No (Adverse) Effect Concentration - not otherwise specified; NO(A)EC - No (Adverse) Effect Concentration - not otherwise specified; NO(A)EC - No (Adverse) Effect Concentration - not otherwise specified; NO(A)EC - No (Adverse) Effect Concentration - not otherwise specified; NO(A)EC - No (Adverse) Effect Concentration - not otherwise specified; NO(A)EC - No (Adverse) Effect Concentration - not otherwise specified; NO(A)EC - No (Adverse) Effect Concentration - not otherwise specified; NO(A)EC - No (Adverse) Effect Concentration - not otherwise specified; NO(A)EC - No (Adverse) Effect Concentration - not otherwise specified; NO(A)EC - No (Adverse) Effect Concentration - not otherwise specified; NO(A)EC - No (Adverse) Effect Concentration

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observed; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observed Effect Load Rate; NZIoC - New Zealand Chemicals Inventory; OECD - Organization for Economic Co-operation and Development; OPPTS - Bureau of Chemical Safety and Pollution Prevention; PBT - Persistent, bioaccumulative and toxic substance; PICCS - Chemical Substances Inventory of the Philippines; (Q)SAR - (Quantitative) Structure Activity Relationships; REACH - Regulation (EC) No. 1907/2006 of the European Parliament and of the Council concerning the registration, evaluation, the authorization and restriction of chemicals; RID - Regulations concerning the international rail transport of dangerous goods; SADT - Self-accelerating decomposition temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory;

TECI - Thailand Existing Chemical Substances Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very persistent and very bioaccumulative United; vPvB - Very persistent and very bioaccumulative United; vPvB - Very persistent and very bioaccumulative

Further information

Directions : Provision of information, instructions to operators

on training and training.

Classification of the mixture: **Classification procedure:** Acute Tox. 4 H302 Calculation method Skin Corr. 1A H314 Calculation method Eye Dam. 1 H318 Calculation method Skin Sens. 1 H317 Calculation method STOT RE 2 H373 Calculation method H411 Aquatic Chronic 2 Calculation method

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.

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