according to Regulation (EC) No. 1907/2006



AT30 Slow Hardener

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

1.1 Product identifier

Trade name : AT30 Slow Hardener

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

Use of the : Epoxy Hardener

Substance/Mixture

1.3 Details of the supplier of the safety data sheet

Company Easy Composites Ltd

Unit 39 Park Hall Business Village, Longton, Stoke-on-Trent, ST3 5XA

Telephone 01782 454499

E-mail address sales@easycomposites.co.uk

1.4 Emergency telephone number

01782 4544 499 (office hours only)

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.

Chronic aquatic toxicity, 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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	H314 H317 H412	Causes severe skin burns and eye damage. May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects.	
Precautionary statements :	Prevention:		
,	P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.	
	P273	Avoid release to the environment.	
	P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.	
	Response:		
	P303 + P361 + P3	153 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.	
	P304 + P340 + P3	ato IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.	
	P305 + P351 + P3	with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.	

Hazardous components which must be listed on the label:

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

3-aminomethyl-3,5,5-trimethylcyclohexylamine

trimethylhexane-1,6-diamine

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 : Cycloaliphatic amine based mixture

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
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	>= 30 - < 50

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3-aminomethyl-3,5,5- trimethylcyclohexylamine	2855-13-2 220-666-8 01-2119514687-32	Acute Tox.4; H312 Acute Tox.4; H302 Skin Corr.1B; H314 Skin Sens.1; H317 Aquatic Chronic3; H412	>= 30 - < 50
trimethylhexane-1,6-diamine	25620-58-0 247-134-8	Acute Tox.4; H302 Skin Corr.1B; H314 Skin Sens.1; H317 Aquatic Chronic3; H412	>= 7 - < 10
benzyl alcohol	100-51-6 202-859-9 01-2119492630-38	Acute Tox.4; H302 Acute Tox.4; H332 Eye Irrit.2; H319	>=1-<3

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

according to Regulation (EC) No. 1907/2006



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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

according to Regulation (EC) No. 1907/2006



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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 wellventilated 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)

according to Regulation (EC) No. 1907/2006



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Specific use(s) : Consult the technical guidelines for the use of this

substance/mixture.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

benzyl alcohol

Contains no substances with occupational exposure limit values.

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

Poly[oxy(methyl-1,2- : End Use: Workers

ethanediyl)], .alpha.-(2- Exposure routes: Skin contact

aminomethylethyl)-.omega.-(2- Potential health effects: Long-term systemic effects

aminomethylethoxy)- 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: 0,04 mg/kg : End Use: Workers

Exposure routes: Inhalation

Potential health effects: Short-term exposure, Systemic effects

Value: 450 mg/m3 End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long-term exposure, Systemic effects

Value: 90 mg/m3 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

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Exposure routes: Inhalation

Potential health effects: Short-term exposure, Systemic effects

Value: 40,55 mg/m3 End Use: Consumers Exposure routes: Inhalation

Potential health effects: Long-term exposure, Systemic effects

Value: 8,11 mg/m3 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

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

Poly[oxy(methyl-1,2- : Fresh water ethanediyl)], .alpha.-(2- Value: 0,015 mg/l

aminomethylethyl)-.omega.-(2-

aminomethylethoxy)-

3-aminomethyl-3,5,5-

trimethylcyclohexylamine

Marine water Value: 0,0143 mg/l Fresh water sediment Value: 0,132 mg/kg Marine sediment Value: 0,125 mg/kg

Soil

Value: 0,0176 mg/kg Intermittent releases Value: 0,15 mg/l Sewage treatment plant

Value: 7,5 mg/l 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

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

according to Regulation (EC) No. 1907/2006



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Value: 0,456 mg/kg Sewage treatment plant

Value: 39 mg/l Intermittent releases Value: 2,3 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 : Chemical resistant gloves made of butyl rubber or nitrile

rubber category III according to 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. Respirator with a vapour filter (EN 141)

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 : light yellow

Odour : ammoniacal

Odour Threshold : not determined

pH : not determined

Melting point/freezing point : Not applicable

Boiling point/boiling range : > 150 °C

Flash point : 150 °C

according to Regulation (EC) No. 1907/2006



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Evaporation rate : not determined

Upper explosion limit : Not applicable

Lower explosion limit : Not applicable

Vapour pressure : Not applicable

Relative vapour density : not determined

Density : 0,93 g/cm3 (25 °C)

Bulk density : not determined

Solubility(ies)

Solubility in other solvents : not determined

Partition coefficient: n-

octanol/water

: No data available

Auto-ignition temperature : Not applicable

Thermal decomposition : Method: No data available

Viscosity

Viscosity, dynamic : 5 - 20 mPa.s (25 °C)

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:

according to Regulation (EC) No. 1907/2006



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Acids

Strong oxidizing agents

10.4 Conditions to avoid

Conditions to avoid : No decomposition if used as directed.

10.5 Incompatible materials

Materials to avoid : Strong acids

Strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition

products

This product may 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 : 909,09 mg/kg

Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : > 2.000 mg/kg

Method: Calculation method

Components:

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

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

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

Method: Converted acute toxicity point estimate

Acute dermal toxicity : Acute toxicity estimate : 1.100 mg/kg

Method: Converted acute toxicity point estimate

benzyl alcohol:

Acute inhalation toxicity : LC50 (Rat, male and female): > 4.178 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

according to Regulation (EC) No. 1907/2006



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Method: OECD Test Guideline 403

GLP: yes

Skin corrosion/irritation

Product:

Remarks: Acute dermal irritation/corrosion

Components:

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

Species: Rabbit

Method: OECD Test Guideline 404

Result: Corrosive

benzyl alcohol:

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

GLP: yes

Serious eye damage/eye 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.

benzyl alcohol:

Species: Rabbit

Method: OECD Test Guideline 405

Result: Eye irritation

GLP: yes

Respiratory or skin sensitisation

Product:

Remarks: No data available

according to Regulation (EC) No. 1907/2006



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Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

STOT - single exposure

STOT - repeated exposure

Repeated dose toxicity

Product:

Remarks: No data available

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:

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
Test Type: 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 Test Type: static test

Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae : NOEC (Pseudokirchneriella subcapitata (green algae)): 0,32

according to Regulation (EC) No. 1907/2006



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mg/l

Exposure time: 72 h Test Type: 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 : NOEC: 3 mg/l

aquatic invertebrates (Chronic toxicity)

Exposure time: 21 d

Species: Daphnia magna (Water flea)

Test Type: semi-static test

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

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: No data available

Components:

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

aminomethylethoxy)-:

Biodegradability : Test Type: aerobic

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according to Regulation (EC) No. 1907/2006



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Result: Not readily biodegradable. Method: OECD Test Guideline 301B

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

trimethylhexane-1,6-diamine:

Biodegradability : Test Type: aerobic

Result: Not readily biodegradable.

Method: Directive 67/548/EEC Annex V, C.4.A.

GLP: yes

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data available

Components:

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

aminomethylethoxy)-

Partition coefficient: n- : log Pow: 1,34 (25 °C)

octanol/water Method: OECD Test Guideline 117

GLP: yes

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

Partition coefficient: n- : log Pow: 0.99

octanol/water Method: OECD Test Guideline 107

GLP: yes

12.4 Mobility in soil

No data available

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

information

: Remarks: An environmental hazard cannot be excluded in the

event of unprofessional handling or disposal.

according to Regulation (EC) No. 1907/2006



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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.

(Polyoxypropylene Diamine)

IMDG : AMINES, LIQUID, CORROSIVE, N.O.S.

(Polyoxypropylene Diamine)

IATA : Amines, liquid, corrosive, n.o.s.

(Polyoxypropylene Diamine)

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

IMDG

Packing group : III
Labels : 8
EmS Code : F-A, S-B

Remarks : IMDG Code segregation group 18 - Alkalis

IATA

Packing instruction (cargo : 856

aircraft)

Packing instruction : 852

according to Regulation (EC) No. 1907/2006



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(passenger aircraft)

Packing group : III Labels : 8

14.5 Environmental hazards

ADR/RID/ADN

Environmentally hazardous : no

IMDG

Marine pollutant : no

14.6 Special precautions for user

Not applicable

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)

REACH - Candidate List of Substances of Very High

Concern for Authorisation (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 authorisation

(Annex XIV)

: Not applicable

: 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.

Not applicable

15.2 Chemical safety assessment

Not applicable

SECTION 16: Other information

Full text of H-Statements

H302 : Harmful if swallowed.

H312 : Harmful in contact with skin.
H314 : Causes severe skin burns ar

H314 : Causes severe skin burns and eye damage.
H317 : May cause an allergic skin reaction.
H318 : Causes serious eye damage.

H319 : Causes serious eye irritation.

H332 : Harmful if inhaled.

H412 : Harmful to aquatic life with long lasting effects.

according to Regulation (EC) No. 1907/2006



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Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Chronic : Chronic aquatic toxicity
Eye Dam. : Serious eye damage

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

Further information

Training advice : Provide adequate information, instruction and training for

operators.

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. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

according to Regulation (EC) No. 1907/2006



AT30 FAST Epoxy Hardener

Version 5.0 SDB_GB Revision Date 28.11.2020 Print Date 28.11.2020

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

1.1 Product identifier

Trade name : AT30 FAST Epoxy Hardener

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

Use of the : Epoxy Hardener

Substance/Mixture

1.3 Details of the supplier of the safety data sheet

Company Easy Composites Ltd

Unit 39 Park Hall Business Village, Longton, Stoke-on-Trent, ST3 5XA

Telephone 01782 454 499

Telefax

E-mail address sales@easycomposites.co.uk

1.4 Emergency telephone number

01782 454 499 (office hours only)

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 1A 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.

Specific target organ toxicity - repeated

exposure, Category 2

H373: May cause damage to organs through

prolonged or repeated exposure.

Chronic aquatic toxicity, Category 2 H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :









Signal word : Danger

according to Regulation (EC) No. 1907/2006



AT30 FAST Epoxy Hardener

Version 5.0 SDB_GB	Revision	Date 28.11.2020	Print Date 28.11.2020
Hazard statements	: H302 H314 H317 H373	May cause an May cause dar prolonged or re	e skin burns and eye damage. allergic skin reaction. mage to organs through epeated exposure.
	H411	Toxic to aquati	c life with long lasting effects.
Supplemental Hazard Statements	: EUH071	Corrosive to th	e respiratory tract.
Precautionary statements	P304 + P3	Do not breather vapours/ spray Avoid release to Wear protection/ eye protection/ eye protection/ estable immediately all Rinse skin with 40 + P310 IF INHALI air and keep contact lenses	to the environment. e gloves/ protective clothing/ face protection. IN (or hair): Take off I contaminated clothing. water/shower. ED: Remove person to fresh omfortable for breathing. all a POISON

Hazardous components which must be listed on the label: 3-aminomethyl-3,5,5-trimethylcyclohexylamine

4,4'-methylenebis(cyclohexylamine)

m-phenylenebis(methylamine)

- 3,6,9,12-tetra-azatetradecamethylenediamine
- 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5
- 3,6,9-triazaundecamethylenediamine
- 3-aminopropyltriethoxysilane

according to Regulation (EC) No. 1907/2006



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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 : Cycloaliphatic and aliphatic amine based mixture

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
3-aminomethyl-3,5,5- trimethylcyclohexylamine	2855-13-2 220-666-8 01-2119514687-32	Acute Tox.4; H312 Acute Tox.4; H302 Skin Corr.1B; H314 Skin Sens.1; H317 Aquatic Chronic3; H412	>= 20 - < 25
4,4'-methylenebis(cyclohexylamine)	1761-71-3 217-168-8 01-2119541673-38	Acute Tox.4; H302 Skin Corr.1A; H314 Skin Sens.1; H317 STOT RE2; H373	>= 20 - < 25
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	>= 20 - < 25
benzyl alcohol	100-51-6 202-859-9 01-2119492630-38	Acute Tox.4; H302 Acute Tox.4; H332 Eye Irrit.2; H319	>= 12,5 - < 20
3,6,9,12-tetra- azatetradecamethylenediamine	4067-16-7 223-775-9	Skin Corr.1B; H314 Skin Sens.1; H317 Aquatic Acute1; H400 Aquatic Chronic1; H410 Acute Tox.4; H302 Acute Tox.4; H312	>= 7 - < 10
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5	38294-64-3	Acute Tox.4; H302 Acute Tox.4; H312 Skin Corr.1B; H314 Skin Sens.1; H317 Aquatic Chronic3; H412	>= 1 - < 2,5
3,6,9- triazaundecamethylenediamine	112-57-2 203-986-2 /	Acute Tox.4; H312 Acute Tox.4; H302 Skin Corr.1B; H314 Skin Sens.1; H317	>= 1 - < 2,5

according to Regulation (EC) No. 1907/2006



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		Aquatic Chronic2; H411	
3-aminopropyltriethoxysilane	919-30-2 213-048-4 01-2119480479-24	Acute Tox.4; H302 Skin Corr.1B; H314 Skin Sens.1; H317	>= 0,25 - < 0,5

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

according to Regulation (EC) No. 1907/2006



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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.

according to Regulation (EC) No. 1907/2006



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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 wellventilated 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.

according to Regulation (EC) No. 1907/2006



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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/m3 End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long-term exposure, Systemic effects

Value: 90 mg/m3 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/m3 End Use: Consumers Exposure routes: Inhalation

Potential health effects: Long-term exposure, Systemic effects

Value: 8,11 mg/m3 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 : End Use: Workers

3-aminopropyltriethoxysilane : End Use: Workers Exposure routes: Skin contact

Potential health effects: Acute systemic effects, Long-term

systemic effects Value: 8,3 mg/kg End Use: Workers

Exposure routes: Inhalation

Potential health effects: Acute systemic effects, Long-term

according to Regulation (EC) No. 1907/2006



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systemic effects Value: 59 mg/m3

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

3-aminomethyl-3,5,5- : Fresh water trimethylcyclohexylamine 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

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

3-aminopropyltriethoxysilane : Fresh water

Value: 0,33 mg/l Marine water Value: 0,033 mg/l Intermittent releases Value: 3,3 mg/l Fresh water sediment Value: 0,26 mg/kg

Soil

Value: 0,04 mg/kg Sewage treatment plant

Value: 13 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.

according to Regulation (EC) No. 1907/2006



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Hand protection

Material : Chemical resistant gloves made of butyl rubber or nitrile

rubber category III according to 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. Respirator with a vapour filter (EN 141)

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 : light yellow

Odour : ammoniacal

Odour Threshold : not determined

pH : 11, 1%

Melting point/freezing point : Not applicable

Boiling point/boiling range : > 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 : 1,04 g/cm3 (25 °C)

Bulk density : not determined

according to Regulation (EC) No. 1907/2006



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Solubility(ies)

Solubility in other solvents : not determined

Partition coefficient: n-

octanol/water

: No data available

Auto-ignition temperature : Not applicable

Thermal decomposition : Method: No data available

Viscosity

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

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

10.4 Conditions to avoid

Conditions to avoid : No decomposition if used as directed.

10.5 Incompatible materials

Materials to avoid : Strong acids

Strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition

This product may release the following:

products

Nitrogen oxides (NOx) Carbon monoxide

40.14

according to Regulation (EC) No. 1907/2006



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Carbon dioxide (CO2)

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate : 540.16 mg/

kg

Method: Calculation method

Acute inhalation toxicity

Exptostoeidityeestimate: > 5 mg/l Test atmosphere: dust/mist Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : > 2.000 mg/kg

Method: Calculation method

Components:

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

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

Method: Converted acute toxicity point estimate

Acute dermal toxicity : Acute toxicity estimate : 1.100 mg/kg

Method: Converted acute toxicity point estimate

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

3,6,9-triazaundecamethylenediamine:

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

Method: Converted acute toxicity point estimate

Acute dermal toxicity : Acute toxicity estimate : 1.100 mg/kg

Method: Converted acute toxicity point estimate

Skin corrosion/irritation

Product:

Remarks: Acute dermal irritation/corrosion

Components:

benzyl alcohol: Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

according to Regulation (EC) No. 1907/2006



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GLP: yes

Serious eye damage/eye irritation

Product:

Remarks: Severe eye irritation

Components:

benzyl alcohol: Species: Rabbit

Method: OECD Test Guideline 405

Result: Eye irritation

GLP: yes

Respiratory or skin sensitisation

Product:

Remarks: No data available

Components:

3-aminopropyltriethoxysilane:

Test Type: Buehler Test Exposure routes: Dermal Species: Guinea pig

Method: OECD Test Guideline 406

Result: May cause sensitisation by skin contact.

GLP: yes

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

STOT - single exposure

STOT - repeated exposure

Repeated dose toxicity

Product:

Remarks: No data available

Aspiration toxicity

Components:

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

No aspiration toxicity classification

Further information

Product:

according to Regulation (EC) No. 1907/2006



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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 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: ves

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

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

3-aminopropyltriethoxysilane:

according to Regulation (EC) No. 1907/2006



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Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 934 mg/l

Exposure time: 96 h Test Type: 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 Test Type: static test

Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae : EC50 (Scenedesmus subspicatus): > 1.000 mg/l

Exposure time: 72 h Test Type: static test

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

GLP: yes

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: No data available

Components:

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

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

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

Biodegradability : Test Type: aerobic

Result: Not readily biodegradable.

Method: Directive 67/548/EEC Annex V, C.4.A.

GLP: yes

3-aminopropyltriethoxysilane:

Biodegradability : Test Type: aerobic

Result: Not readily biodegradable.

Method: Directive 67/548/EEC Annex V, C.4.A.

12.3 Bioaccumulative potential GLP: yes

Product:

Bioaccumulation : Remarks: No data available

Components:

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

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:

Bioaccumulation BioConcentrationFactor (BCF): 5.13

Method: Estimated

Partition coefficient: n- : log Pow: 0,99

octanol/water Method: OECD Test Guideline 107

GLP: yes

according to Regulation (EC) No. 1907/2006



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12.4 Mobility in soil

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

Distribution in environment : log Koc: > 5,16

Method: Directive test OECD 121

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:

information

Additional ecological

: 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.

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.

(Isophorone diamine, Pentaethylenehexamine)

IMDG : AMINES, LIQUID, CORROSIVE, N.O.S.

(ISOPHORONEDIAMINE, Pentaethylenehexamine)

IATA : Amines, liquid, corrosive, n.o.s.

(Isophorone diamine, Pentaethylenehexamine)

14.3 Transport hazard class(es)

ADR/RID/ADN : 8
IMDG : 8

according to Regulation (EC) No. 1907/2006



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IATA : 8

14.4 Packing group

ADR/RID/ADN

Packing group : III
Classification Code : C7
Hazard Identification Number : 80
Labels : 8
TunnelCode E

Remarks : ADR: These substances when carried in single or

combination packagings containing a net quantity per single or inner packaging of 5 l or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids, are not

subject to any other provisions of ADR provided the

packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and

4.1.1.4 to 4.1.1.8.

IMDG

Packing group : III

Labels : 8

EmS Code : F-A

EmS Code : F-A, S-B Remarks : IMDG: Marin

IMDG: Marine pollutants packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 l or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids are not subject to any other provisions of this Code relevant to marine

pollutants provided the packagings meet the general

provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. In thecase of marine pollutants also meeting the criteria for inclusion in another hazard class all provisions of this Code relevant to

any additional hazards continue to apply.

IMDG Code segregation group 18 - Alkalis

IATA

Packing instruction (cargo

aircraft)

Packing instruction

(passenger aircraft)

Packing group : III
Labels : 8

Remarks : IATA: These substances when transported in single or

: 856

: 852

combination packagings containing a net

quantity per single or inner packaging of 5 L or less far liquids

or having a net mass of 5 kg or less for

solids, are not subject to any other provisions of these

Regulations provided the packagings meet the

general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

14.5 Environmental hazards

ADR/RID/ADN

Environmentally hazardous : yes

IMDG : yes

Marine pollutant

according to Regulation (EC) No. 1907/2006



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IATA : yes

Dangerous for the environment

14.6 Special precautions for user

Transport of dangerous goods, including loading and unloading must be carried out in accordance with regulations by personnel who have received the necessary training

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 : ethanol

the market and use of certain dangerous substances,

preparations and articles (Annex XVII)

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

: This product does not contain substances of very high concern

(Regulation (EC) No

: Not applicable

1907/2006 (REACH), Article 57).

REACH - List of substances subject to authorisation

(Annex XIV)

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 ENVIRONMENTAL 200 t 500 t

HAZARDS

15.2 Chemical safety assessment

Not applicable

SECTION 16: Other information

Full text of H-Statements

H302 : Harmful if swallowed. H312 : Harmful in contact with skin.

H314 : Causes severe skin burns and eye damage.

H317 : May cause an allergic skin reaction.
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 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

according to Regulation (EC) No. 1907/2006



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Aquatic Acute : Acute aquatic toxicity
Aquatic Chronic : Chronic aquatic toxicity

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

STOT RE : Specific target organ toxicity - repeated exposure

Further information

Training advice : Provide adequate information, instruction and training for

operators.

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. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.