according to Regulation (EC) No. 1907/2006



Date of first issue: 07.04.2017

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

1.1 Product identifier

Product number 212864

Product name AZ 125nXT-10A Photoresist

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

Identified uses Intermediate for electronic industry

1.3 Details of the supplier of the safety data sheet

Merck KGaA * 64271 Darmstadt * Germany * Phone: +49 6151 72-0

Responsible Department PM-OQR * e-mail: PM_SDS_Supply@merckgroup.com

1.4 Emergency telephone number

Please contact the regional company representation in your country.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3 H226: Flammable liquid and vapour.

On basis of test data.

Skin Irritation, Category 2 H315: Causes skin irritation.

Calculation method

H318: Causes serious eye damage. Serious eye damage, Category 1

Calculation method

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

Calculation method

Reproductive toxicity, Category 1B H360FD: May damage fertility. May damage the

unborn child.

Calculation method

Chronic aquatic toxicity, Category 3 H412: Harmful to aquatic life with long lasting

effects.

Calculation method

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

according to Regulation (EC) No. 1907/2006

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Hazard pictograms



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Signal word : Danger

Hazard statements : H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H360FD May damage fertility. May damage the unborn

child.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention:

P201 Obtain special instructions before use.

P210 Keep away from heat.

P273 Avoid release to the environment.

P280 Wear protective gloves/ eye protection/ face protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

P308 + P313 IF exposed or concerned: Get medical advice/

attention.

P313 Get medical advice/ attention.

Hazardous components which must be listed on the label: Oxybis(2,1-ethanediyloxy-2,1-ethanediyl)diacrylate

2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one

bis(2,4,6-trimethylbenzoyl)phenylphosphine oxide

Reduced Labelling (<= 125 ml)

Hazard pictograms









Signal word Danger

Hazard statements

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H360FD May damage fertility. May damage the unborn child.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P201 Obtain special instructions before use.

P280 Wear protective gloves/ eye protection/ face protection.

P302 + P352 IF ON SKIN: Wash with plenty of water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

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and easy to do. Continue rinsing.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P313 Get medical advice/ attention.

2.3 Other hazards

None known.

SECTION 3: Composition/information on ingredients

Chemical nature : Organic mixture in:

Solvent

3.1 Substance

Not applicable

3.2 Mixtures

Hazardous components

Chemical name	CAS-No. Registration number	Classification	Concentration (% w/w)
Oxybis(2,1-ethanediyloxy-2,1-ethanediyl)diacrylate	17831-71-9	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318	>= 10 - < 20
2-methyl-1-(4-methylthiophenyl)-2- morpholinopropan-1-one	71868-10-5 01-0000015054-80- XXXX	Acute Tox. 4; H302 Repr. 1B; H360FD Aquatic Chronic 2; H411	>= 3 - < 10
bis(2,4,6- trimethylbenzoyl)phenylphosphine oxide	162881-26-7	Skin Sens. 1; H317 Aquatic Chronic 4; H413	>= 1 - < 2,5

Substances with a workplace exposure limit

2-Methoxy-1-methylethyl acetate	108-65-6	Flam. Liq. 3; H226	>= 20 - < 25	
	01-2119475791-29-			
	xxxx		ļ.	
			ĺ	

SECTION 4: First aid measures

4.1 Description of first aid measures

If inhaled : fresh air. Call in physician.

In case of skin contact : Take off immediately all contaminated clothing. Rinse skin

with water/ shower. Consult a physician.

In case of eye contact : rinse out with plenty of water.

Immediately call in ophthalmologist.

Remove contact lenses.

If swallowed : immediately make victim drink water (two glasses at most).

Consult a physician.

according to Regulation (EC) No. 1907/2006

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4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Irritation and corrosion

Allergic reactions

Risk of serious damage to eyes.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water

Foam

Carbon dioxide (CO2)

Dry powder

Unsuitable extinguishing

media

For this substance/mixture no limitations of extinguishing

agents are given.

5.2 Special hazards arising from the substance or mixture

Specific hazards during

firefighting

Combustible.

Vapours are heavier than air and may spread along floors. Forms explosive mixtures with air at elevated temperatures. Development of hazardous combustion gases or vapours

possible in the event of fire.

5.3 Advice for firefighters

Special protective equipment :

for firefighters

Stay in danger area only with self-contained breathing

apparatus. Prevent skin contact by keeping a safe distance or

by wearing suitable protective clothing.

Further information : Cool closed containers exposed to fire with water spray.

Suppress (knock down) gases/vapours/mists with a water

spray jet.

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 : Advice for non-emergency personnel:

Do not breathe vapours, aerosols.

Avoid substance contact. Ensure adequate ventilation.

Keep away from heat and sources of ignition.

according to Regulation (EC) No. 1907/2006

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Evacuate the danger area, observe emergency procedures,

consult an expert.

Advice for emergency responders: Protective equipment see section 8.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.

Risk of explosion.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Cover drains. Collect, bind, and pump off spills.

Observe possible material restrictions (see sections 7 and 10).

Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

6.4 Reference to other sections

Indications about waste treatment see section 13.

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 inhale substance/mixture. Avoid generation of vapours/aerosols.

Observe label precautions.

Advice on protection against

fire and explosion

Keep away from open flames, hot surfaces and sources of

ignition. Take precautionary measures against static

discharge.

Hygiene measures : Immediately change contaminated clothing. Apply preventive

skin protection. Wash hands and face after working with

substance.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage

areas and containers

: Store in original container.

Further information on storage conditions

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition. Keep

locked up or in an area accessible only to qualified or

authorised persons.

Risks from decomposition products: see section 10.3

Recommended storage

temperature

Recommended storage temperature see product label.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

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

Substance name	End Use	Exposure routes	Potential health effects	Value
2-Methoxy-1- methylethyl acetate	Workers	dermal	Long-term systemic effects	153,5 mg/kg
	Workers	inhalation	Long-term systemic effects	275 mg/m3
	Consumers	oral	Long-term systemic effects	1,67 mg/kg
	Consumers	dermal	Long-term systemic effects	54,8 mg/kg
	Consumers	inhalation	Long-term systemic effects	33 mg/m3

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

Substance name	Environmental Compartment	Value
2-Methoxy-1-methylethyl acetate	Fresh water	0,635 mg/l
	Marine water	0,0635 mg/l
	Fresh water sediment	3,29 mg/kg
	Marine sediment	0,329 mg/kg
	Sewage treatment plant	100 mg/l
	Soil	0,29 mg/kg

8.2 Exposure controls

Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

Personal protective equipment

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Eye protection : Tightly fitting safety goggles

Hand protection

splash contact

Glove material Nitrile rubber

Glove thickness 0.4 mm

according to Regulation (EC) No. 1907/2006

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> Break through time > 10 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example: KCL 730 Camatril® - Velours (splash contact);.

Protective measures Flame retardant antistatic protective clothing.

Respiratory protection required when vapours/aerosols are generated.

Recommended Filter type:

ABEK-filter

Environmental exposure controls

Do not flush into surface water or sanitary sewer system. General advice

Risk of explosion.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form liquid

Colour clear

colourless

light yellow

Odour characteristic

Odour Threshold No information available.

Not applicable pΗ

Melting point No information available.

Boiling point No information available.

Flash point approximately 41 °C

Evaporation rate No information available.

Flammability (solid, gas) No information available.

Lower explosion limit No information available.

Upper explosion limit No information available.

Vapour pressure No information available.

Relative vapour density No information available.

Density 1,07 g/cm3

at 25 °C

according to Regulation (EC) No. 1907/2006

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Solubility(ies) No information available.

Water solubility The solvent is partially water soluble but the product forms two

layers.

Partition coefficient: n-

octanol/water

No information available.

Auto-ignition temperature No information available.

Decomposition temperature No information available.

Viscosity, kinematic No information available.

Explosive properties No information available.

Oxidizing properties No information available.

9.2 Other data

None

SECTION 10: Stability and reactivity

10.1 Reactivity

Vapour/air-mixtures are explosive at intense warming.

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

10.3 Possibility of hazardous reactions

Hazardous reactions : Risk of ignition or formation of inflammable gases or vapours

with:

Oxidizing agents

Violent reactions possible with:

alkalines Peroxides

Strong oxidizing agents

Strong acids Strong bases

10.4 Conditions to avoid

Conditions to avoid : Heating.

10.5 Incompatible materials

Materials to avoid : no information available

10.6 Hazardous decomposition products

in the event of fire: See section 5.

according to Regulation (EC) No. 1907/2006

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

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

Method: Calculation method

Symptoms: Irritations of mucous membranes in the mouth,

pharynx, oesophagus and gastrointestinal tract.

Acute inhalation toxicity : Symptoms: Possible symptoms:, mucosal irritations

Acute dermal toxicity : No data available

Components:

Oxybis(2,1-ethanediyloxy-2,1-ethanediyl)diacrylate:

Acute oral toxicity : LD50 (Rat): 813 mg/kg

Acute inhalation toxicity : No data available Acute dermal toxicity : No data available

2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one:

Acute oral toxicity : LD50 (Rat): 1.984 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : No data available

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg

Method: OECD Test Guideline 402

bis(2,4,6-trimethylbenzoyl)phenylphosphine oxide:

Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : No data available

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg

Method: OECD Test Guideline 402

2-Methoxy-1-methylethyl acetate:

Acute oral toxicity : LD50 (Rat): 8.532 mg/kg

Acute inhalation toxicity : No data available Acute dermal toxicity : No data available

according to Regulation (EC) No. 1907/2006

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Date of first issue: 07.04.2017

Print Date: 05.02.2018 Product number: 212864

Skin corrosion/irritation

Product:

Version: 1.0

Remarks: Mixture causes skin irritation.

Components:

Oxybis(2,1-ethanediyloxy-2,1-ethanediyl)diacrylate:

Result: Severe skin irritation

2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one:

Species: Rabbit

Method: OECD Test Guideline 404

Result: No irritation

bis(2,4,6-trimethylbenzoyl)phenylphosphine oxide:

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

2-Methoxy-1-methylethyl acetate:

Species: Rabbit Exposure time: 24 h

Method: OECD Test Guideline 404

Result: No irritation

Serious eye damage/eye irritation

Product:

Remarks: Mixture causes serious eye damage.

Components:

Oxybis(2,1-ethanediyloxy-2,1-ethanediyl)diacrylate:

2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one:

Species: Rabbit

Method: OECD Test Guideline 405

Result: No eye irritation

bis(2,4,6-trimethylbenzoyl)phenylphosphine oxide:

Species: Rabbit

Method: OECD Test Guideline 405

Result: No eye irritation

2-Methoxy-1-methylethyl acetate:

Species: Rabbit

Method: OECD Test Guideline 405

Result: No eye irritation

according to Regulation (EC) No. 1907/2006

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Respiratory or skin sensitisation

Product:

Remarks: Mixture may cause an allergic skin reaction.

Components:

2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one:

Test Type: Sensitisation test:

Species: Guinea pig

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

bis(2,4,6-trimethylbenzoyl)phenylphosphine oxide:

Species: Guinea pig

Method: OECD Test Guideline 406

2-Methoxy-1-methylethyl acetate:

Test Type: Maximisation Test Exposure routes: dermal Species: Guinea pig

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

Germ cell mutagenicity

Product:

No data available

Components:

Oxybis(2,1-ethanediyloxy-2,1-ethanediyl)diacrylate:

Genotoxicity in vitro : Test Type: Ames test

Result: negative

: Species: Mouse lymphoma test

Result: positive

2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one:

Genotoxicity in vitro : Test Type: Ames test

Species: Salmonella typhimurium Method: OECD Test Guideline 471

Result: negative

bis(2,4,6-trimethylbenzoyl)phenylphosphine oxide:

Genotoxicity in vitro : Test Type: Ames test

Result: negative

Remarks: (External MSDS)

2-Methoxy-1-methylethyl acetate:

according to Regulation (EC) No. 1907/2006

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Genotoxicity in vitro : Test Type: Ames test

Species: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Carcinogenicity

Product:

This information is not available.

Components:

This information is not available.

Reproductive toxicity

Components:

2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one:

Effects on fertility : No data available Effects on foetal : No data available

development

Reproductive toxicity - : Suspected human reproductive toxicant

Assessment Clear evidence of adverse effects on sexual function and

fertility, and/or on development, based on animal experiments

STOT - single exposure

Product:

No data available

Components:

No data available

STOT - repeated exposure

Product:

No data available

Components:

No data available

Repeated dose toxicity

Product:

No data available

Components:

2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one:

Species: Rat NOAEL: 75 mg/kg Application Route: Oral

Method: OECD Test Guideline 408

according to Regulation (EC) No. 1907/2006

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Aspiration toxicity

Product:

No data available

Components:

No data available

Experience with human exposure

Product:

No data available

Components:

No data available

11.2 Other information

Product:

No data available

Other dangerous properties can not be excluded.

This substance should be handled with particular care.

SECTION 12: Ecological information

12.1 Toxicity

Components:

2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one:

: LC50 (Danio rerio (zebra fish)): 9 mg/l Toxicity to fish

Exposure time: 96 h

Method: OECD Test Guideline 203

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 15,3 mg/l

Exposure time: 24 h

Method: OECD Test Guideline 202

Toxicity to algae ErC50 (Desmodesmus subspicatus (green algae)): 1,6 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

GLP: yes

NOEC (Desmodesmus subspicatus (green algae)): 0,86 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

GLP: yes

EC50 (activated sludge): > 100 mg/l Toxicity to microorganisms

Remarks: (External MSDS)

bis(2,4,6-trimethylbenzoyl)phenylphosphine oxide:

according to Regulation (EC) No. 1907/2006

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Toxicity to fish : LC50 (Danio rerio (zebra fish)): Exposure time: 96 h

Remarks: No observable toxic effect in saturated solution.

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): Exposure time: 48 h Remarks: No observable toxic effect in saturated solution.

Toxicity to algae : EC50 (Desmodesmus subspicatus (Scenedesmus

subspicatus)): Exposure time: 72 h

Remarks: No observable toxic effect in saturated solution.

2-Methoxy-1-methylethyl acetate:

Toxicity to fish : LC50 (S.gairdnerii): 100 - 180 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 373 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): >

1.000 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 201

Toxicity to microorganisms : EC10 (activated sludge): > 1.000 mg/l

Exposure time: 30 min

Method: OECD Test Guideline 209

Toxicity to fish (Chronic

toxicity)

NOEC: 47,5 mg/l Exposure time: 14 d

Species: Oryzias latipes (Orange-red killifish)

Method: OECD Test Guideline 204

GLP: yes

Toxicity to daphnia and other :

aquatic invertebrates (Chronic toxicity)

NOEC: >= 100 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

Test Type: semi-static test

Method: OECD Test Guideline 211

GLP: yes

12.2 Persistence and degradability

Components:

2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one:

Biodegradability : Result: Not readily biodegradable.

Biodegradation: 0 % Exposure time: 28 d

Method: OECD Test Guideline 301B

Result: Not readily biodegradable.

according to Regulation (EC) No. 1907/2006

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Biodegradation: 1 % Exposure time: 28 d

Method: OECD Test Guideline 301E

bis(2,4,6-trimethylbenzoyl)phenylphosphine oxide:

Biodegradability : Concentration: 10 mg/l

Result: Not readily biodegradable.

Biodegradation: 1 % Exposure time: 28 d

Method: OECD Test Guideline 301B

2-Methoxy-1-methylethyl acetate:

Biodegradability : Result: Readily eliminated from water

Biodegradation: 100 % Exposure time: 8 d

Method: OECD Test Guideline 302B

Biochemical Oxygen : 330 mg/g

Demand (BOD) Incubation time: 5 d

Remarks: (IUCLID)

Chemical Oxygen Demand : 1.740 mg/g

(COD) Remarks: (IUCLID)

ThOD : 1.820 mg/g

Remarks: (IUCLID)

12.3 Bioaccumulative potential

Components:

bis(2,4,6-trimethylbenzoyl)phenylphosphine oxide:

Bioaccumulation : Species: Cyprinus carpio (Carp)

Exposure time: 28 d

Bioconcentration factor (BCF): < 5 Method: OECD Test Guideline 305C

Partition coefficient: n- : log Pow: 5,8

octanol/water Method: OECD Test Guideline 117

Remarks: Potential bioaccumulation

2-Methoxy-1-methylethyl acetate:

Partition coefficient: n- : log Pow: 1,2 (20 °C)

octanol/water Method: OECD Test Guideline 117

Remarks: Bioaccumulation is not expected.

12.4 Mobility in soil

Components:

2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one:

according to Regulation (EC) No. 1907/2006

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Distribution among : Medium: Soil environmental compartments : Koc: log Koc: 2,8

Method: OECD Test Guideline 121 Remarks: Moderately mobile in soils

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..

Components:

2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one:

Assessment : Substance does not meet the criteria for PBT or vPvB

according to Regulation (EC) No 1907/2006, Annex XIII..

2-Methoxy-1-methylethyl acetate:

Assessment : Substance does not meet the criteria for PBT or vPvB

according to Regulation (EC) No 1907/2006, Annex XIII..

12.6 Other adverse effects

Product:

Additional ecological

information

: No data available

Discharge into the environment must be avoided.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : See www.retrologistik.com for processes regarding the return

of chemicals and containers, or contact us there if you have

further questions.

SECTION 14: Transport information

Air transport(IATA)

14.1. UN/ID No. : UN 1993

14.2. Proper shipping name : Flammable liquid, n.o.s.

(2-Methoxy-1-methylethyl acetate)

 14.3. Class
 : 3

 14.4. Packing group
 : III

 14.5 Environmentally
 : -

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according to Regulation (EC) No. 1907/2006

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hazardous

14.6 Special precautions : no

for user

Sea transport(IMDG)

14.1. UN number : UN 1993

14.2. Proper shipping name : FLAMMABLE LIQUID, N.O.S.

(2-Methoxy-1-methylethyl acetate)

 14.3. Class
 : 3

 14.4. Packing group
 : III

 14.5 Environmentally
 : -

hazardous

14.6 Special precautions : yes

for user

EmS Code : F-E, <u>S-E</u>

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

Not relevant

Land transport(ADR/RID)

14.1. UN number : UN 1993

14.2. Proper shipping name: FLAMMABLE LIQUID, N.O.S.

(2-Methoxy-1-methylethyl acetate)

 14.3. Class
 : 3

 14.4. Packing group
 : |||

 14.5 Environmentally
 : -

hazardous

SECTION 15: Regulatory information

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

Regulation (EC) No 850/2004 on persistent organic

Regulation (EC) No 650/2004 on persistent organ

: Not applicable

pollutants

REACH - List of substances subject to authorisation

(Annex XIV)

Not applicable

Regulation (EC) No 1005/2009 on substances that

deplete the ozone layer

: Not applicable

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

Not applicable

Regulation (EC) No 649/2012 of the European

Parliament and the Council concerning the export and

import of dangerous chemicals

Not applicable

REACH - Restrictions on the manufacture, placing on

the market and use of certain dangerous substances,

preparations and articles (Annex XVII)

: 70657-70-4

according to Regulation (EC) No. 1907/2006

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Version: 1.0 Product number: 212864 Print Date: 05.02.2018

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of

major-accident hazards involving dangerous substances.

Quantity 1 Quantity 2

P5c FLAMMABLE LIQUIDS 50,000 t 5.000 t

Storage class 3

Other regulations Take note of Dir 94/33/EC on the protection of young people

at work.

Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations

where applicable.

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

SECTION 16: Other information

Training advice

Provide adequate information, instruction and training for operators.

Full text of H-Statements

H226 Flammable liquid and vapour.

H302 Harmful if swallowed. Causes skin irritation. H315

May cause an allergic skin reaction. H317

H318 Causes serious eve damage.

H360FD May damage fertility. May damage the unborn child.

H411 Toxic to aquatic life with long lasting effects.

H413 May cause long lasting harmful effects to aquatic life.

Key or legend to abbreviations and acronyms used in the safety data sheet

Used abbreviations and acronyms can be looked up at www.wikipedia.org.

Disclaimer

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.