according to Regulation (EC) No. 1907/2006



AZ 520 D Protective Coating

Substance No.: SXR084930 Revision Date 28.04.2015 Print Date 22.11.2016

Version 3.0 DE-GHS

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

1.1 Product identifier

Trade name : AZ 520 D Protective Coating

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

Use of the : Electronic industry

Substance/Mixture Intermediate for electronic industry

1.3 Details of the supplier of the safety data sheet

: Merck Performance Materials GmbH Company

Rheingaustrasse 190-196, 65203 Wiesbaden Germany

Telephone : +49 (0)611 962 8563

E-mail address of person responsible for the SDS

: PSE@merckgroup.com

1.4 Emergency telephone number

Emergency telephone : +49 69 305 6418 (24/7, English and German)

number

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

GHS Classification

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

2.2 Label elements

GHS-Labelling

Symbol(s)



Signal word Warning

Hazard statements H226 Flammable liquid and vapour.

according to Regulation (EC) No. 1907/2006



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Precautionary statements : **Prevention:**

P210 Keep away from heat/sparks/open

flames/hot surfaces. - No smoking.

P233 Keep container tightly closed.

P280 Wear protective gloves/ protective clothing/

eye protection/ face protection.

Response:

off immediately all contaminated clothing.

Rinse skin with water/ shower.

P370 + P378 In case of fire: Use dry sand, dry chemical

or alcohol-resistant foam for extinction.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

2.3 Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical characterization

Preparation of polymer resins in organic solvent (halogenfree).

Hazardous components

2-methoxypropyl acetate

CAS-No. : 70657-70-4 EC-No. : 274-724-2

Classification : Flam. Liq. 3; H226 (REGULATION (EC) No Repr. 1B; H360D 1272/2008) STOT SE 3; H335

Concentration [%] : < 0,3

WEL substance:

2-methoxy-1-methylethyl acetate

CAS-No. : 108-65-6 EC-No. : 203-603-9

Registration number : 01-2119475791-29-xxxx Classification : Flam. Liq. 3; H226

(REGULATION (EC) No

1272/2008)

Concentration [%] : >= 50 - <= 100

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For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Take off all contaminated clothing immediately.

If symptoms persist, call a physician.

Show this safety data sheet to the doctor in attendance.

Inhalation : If breathing is difficult, remove victim to fresh air and keep at

rest in a position comfortable for breathing.

Skin contact : Wash off immediately with plenty of water.

If skin irritation persists, call a physician.

Eye contact : Immediately flush eye(s) with plenty of water.

Protect unharmed eye. Remove contact lenses.

Ingestion : If symptoms persist, call a physician.

Show this safety data sheet to the doctor in attendance.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : water spray jet

foam dry powder carbon dioxide

5.2 Special hazards arising from the substance or mixture

Specific hazards during

firefighting

: In case of fire hazardous decomposition products may be

produced such as: Carbon dioxide (CO2) Carbon monoxide

5.3 Advice for firefighters

Special protective equipment

for firefighters

: Well closed full protective clothing (coat and pants) including

helmet.

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

according to Regulation (EC) No. 1907/2006



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Further information : Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

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.

6.2 Environmental precautions

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

Avoid subsoil penetration.

6.3 Methods and materials 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).

Keep in suitable, closed containers for disposal.

Clean contaminated floors and objects thoroughly while

observing environmental regulations.

6.4 Reference to other sections

Additional advice : Information regarding Waste Disposal, see chapter 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.

Advice on protection against

fire and explosion

: Normal measures for preventive fire protection.

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.

Protect against light.

Advice on common storage : Do not store together with oxidizing agents.

7.3 Specific end use(s)

according to Regulation (EC) No. 1907/2006



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: No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with workplace control parameters

Components	:	2-methoxy-1-methylethyl acetate	
CAS-No.	:	108-65-6	
Value	:	AGW	
Control parameters	:	50 ppm	
		270 mg/m3	
Category short-time		1;(I)	
exposure	•		
Update	:	2006-01-01	
Basis	:	DE TRGS 900	
Further information	:	DFG: Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission). European Union (The EU has established a limit value: deviations in value and peak limit are possible) When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child	

Components	:	2-methoxypropyl acetate	
CAS-No.	:	70657-70-4	
Value	:	AGW	
Control parameters	:	5 ppm	
-		28 mg/m3	
Category short-time		8;(II)	
exposure	•	0,(11)	
Update	:	2006-01-01	
Basis	:	DE TRGS 900	
Further information	:	DFG: Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission). Skin absorptionWhen there is compliance with the OEL and biological tolerance values, harm to the unborn child can not be excluded	

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

2-methoxy-1-methylethyl

: End Use: Workers

acetate Exposure routes: Skin contact

Potential health effects: Chronic effects

Value: 54,8 mg/kg

End Use: Workers

Exposure routes: Inhalation

Potential health effects: Chronic effects

Value: 33 mg/m3

according to Regulation (EC) No. 1907/2006



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End Use: Workers

Exposure routes: Ingestion

Potential health effects: Chronic effects

1,67 mg/kg

End Use: Consumers

Exposure routes: Skin contact

Potential health effects: Chronic effects

153,5 mg/kg

End Use: Consumers
Exposure routes: Inhalation

Potential health effects: Chronic effects

275 mg/kg

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

2-methoxy-1-methylethyl : Fresh water

acetate

Value: 0,635 mg/l

value: 0,000 mg/1

Marine water Value: 0,0635 mg/l

Fresh water sediment Value: 3,29 mg/kg

Marine sediment Value: 0,329 mg/kg

Soil

Value: 0,29 mg/kg

8.2 Exposure controls

Engineering measures

See chapter7; no measures exeeding the ones mentioned are necessary.

Personal protective equipment

Respiratory protection : Use respiratory protection in case of insufficient exhaust

ventilation or prolonged exposure

Recommended Filter type:

ABEK-filter

Hand protection : Break through time: > 10 min

Glove thickness: > 0,4 mm

For short-term exposure (splash protection):

Nitrile rubber gloves.

Remarks: These types of protective gloves are offered by

according to Regulation (EC) No. 1907/2006



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various manufacturers. Please note the manufacturers' detailed statements, especially about the minimum thickness and the minimum breakthrough time. Consider also the particular working conditions under which the gloves are being

used.

Eye protection : tightly fitting safety glasses

Skin and body protection : protective clothing

: When using do not eat, drink or smoke. Hygiene measures

Keep away from food and drink.

Wash hands before breaks and at the end of workday.

Use barrier skin cream.

Protective measures : Do not breathe vapours or spray mist.

Avoid contact with skin and eyes.

Observe the usual precautions for handling chemicals.

Environmental exposure controls

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

Avoid subsoil penetration.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Form : Liquid Colour : blue

Odour : ester-like

Safety data

: ca. 42 °C Flash point Ignition temperature
Thermal decomposition
Lower explosion limit
Upper explosion limit
Flammability (solid, gas)
Oxidizing properties
Auto-ignition temperature : not determined Burning number : not determined Not applicable pΗ

Freezing point : not determined Starts to boil : from 145 °C

according to Regulation (EC) No. 1907/2006



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Sublimation point : not determined Vapour pressure : approx. 5 hPa, 20 °C Density : 1 g/cm3, 20 °C

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

layers.

Partition coefficient: : not determined

n-octanol/water

Solubility in other solvents

Viscosity, dynamic

Viscosity, kinematic

Relative vapour density

Corrosive in contact with

: not determined
: not determined
: not determined
: not determined

metals

Evaporation rate : not determined

9.2 Other information

Further information : Remarks: No information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : Incompatible with oxidizing materials.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

Strong acids Bases

10.6 Hazardous decomposition products

Hazardous decomposition

products

: when handled and stored appropriately no dangerous

decomposition products are known

SECTION 11: Toxicological information

11.1 Information on toxicological effects

according to Regulation (EC) No. 1907/2006



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Product

Acute oral toxicity : no data available

: no data available Acute inhalation toxicity

Acute dermal toxicity : no data available

Skin corrosion/irritation : no data available

Serious eye damage/eye

irritation

: no data available

Respiratory or skin

: no data available

sensitisation

Further information : no data available

Components:

2-methoxypropyl acetate:

Reproductive toxicity : May damage the unborn child.

2-methoxy-1-methylethyl acetate:

Acute oral toxicity : LD50: > 8.532 mg/kg, rat(female)

Acute inhalation toxicity : LC50: > 10,8 mg/l, 6 h, rat, Acute dermal toxicity : LD50: > 5.000 mg/kg, rabbit

SECTION 12: Ecological information

12.1 Toxicity

Components:

2-methoxy-1-methylethyl acetate:

Toxicity to fish : LC50 (Oryzias latipes (Orange-red killifish)): 100 mg/l

> Exposure time: 96 h Test Type: semi-static test

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 373 mg/l

aquatic invertebrates

Exposure time: 48 h

12.2 Persistence and degradability

Components:

2-methoxy-1-methylethyl acetate:

: Result: Readily biodegradable. Biodegradability

> Biodegradation: 99 % Exposure time: 28 d

according to Regulation (EC) No. 1907/2006



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12.3 Bioaccumulative potential

Components:

2-methoxy-1-methylethyl acetate:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-

octanol/water

: log Pow: 1,2

12.4 Mobility in soil

Components:

2-methoxy-1-methylethyl acetate:

Distribution among : Koc: 1,7Remarks: Highly mobile in soils

environmental compartments

12.5 Results of PBT and vPvB assessment

Components:

2-methoxy-1-methylethyl acetate:

Assessment : The substance does not fulfill the PBT criteria.. The substance

does not fulfill the vPvB criteria..

12.6 Other adverse effects

Product:

Additional ecological

information

: no data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Dispose of contents/ container to an approved waste disposal

plant.

Contaminated packaging : Dispose of as unused product.

SECTION 14: Transport information

ADR

UN number : 1993

Description of the goods : FLAMMABLE LIQUID, N.O.S.

(2-Methoxy-1-methylethyl acetate)

Class : 3

according to Regulation (EC) No. 1907/2006



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Packing group : III
Classification Code : F1
Labels : 3
Environmentally hazardous : no

IATA

UN number : 1993

Description of the goods : Flammable liquid, n.o.s.

(2-Methoxy-1-methylethyl acetate)

Class : 3
Packing group : III
Labels : 3
Environmentally hazardous : no

IMDG

UN number : 1993

Description of the goods : FLAMMABLE LIQUID, N.O.S.

(2-Methoxy-1-methylethyl acetate)

Class : 3
Packing group : III
Labels : 3
EmS Number 1 : F-E
EmS Number 2 : S-E
Marine pollutant : no

RID

UN number : 1993

Description of the goods : FLAMMABLE LIQUID, N.O.S.

(2-Methoxy-1-methylethyl acetate)

Class : 3
Packing group : III
Classification Code : F1
Labels : 3
Environmentally hazardous : no

SECTION 15: Regulatory information

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

International Chemical Weapons Convention (CWC) : Neither banned nor restricted

Schedules of Toxic Chemicals and Precursors

REACH - Restrictions on the manufacture, placing on : 108-65-6

the market and use of certain dangerous substances,

preparations and articles (Annex XVII)

Regulation (EC) No 649/2012 of the European : Neither banned nor restricted

Parliament and the Council concerning the export and

import of dangerous chemicals

according to Regulation (EC) No. 1907/2006



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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).

Neither banned nor restricted

REACH - List of substances subject to authorisation

(Annex XIV)

Regulation (EC) No 1005/2009 on substances that

deplete the ozone layer

: Neither banned nor restricted

Regulation (EC) No 850/2004 on persistent organic

pollutants

: Neither banned nor restricted

Water contaminating class

(Germany)

weakly water polluting

15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for a mixture.

: 1

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

H226 Flammable liquid and vapour.
H335 May cause respiratory irritation.
H360D May damage the unborn child.

Decimal notation: "Thousands" places are identified with a dot (example: 2.000 mg/kg means "two

thousand mg/kg"). Decimal places are identified with a comma (example: 1,35 g/cm3)

Further information

Further information : Observe national and local legal requirements

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.

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