

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



AZ 9260 RESIST (520 CPS) 302-0004

Substance No.: SXR109902
Version 4.0 DE-GHS

Revision Date 04.05.2015

Print Date 13.08.2015

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

1.1 Product identifier

Trade name : AZ 9260 RESIST (520 CPS) 302-0004

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

Use of the Substance/Mixture : Electronic industry
Intermediate for electronic industry

1.3 Details of the supplier of the safety data sheet

Company :

E-mail address of person responsible for the SDS : PSE@merckgroup.com

1.4 Emergency telephone number

Emergency telephone 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.
On basis of test data.

2.2 Label elements

GHS-Labeling

Symbol(s) :



Signal word : Warning

Hazard statements : H226 Flammable liquid and vapour.

Precautionary statements : **Prevention:**

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P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233	Keep container tightly closed.
Response:	
P303 + P361 + P353	IF ON SKIN (or hair): Remove/ Take 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.
Disposal:	
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical characterization

Preparation of Polymer resins and diazo compounds in organic solvents (halogenfree).

Hazardous components

p-Cumylphenyl-1,2-naphthoquinone-2-diazide-4-sulfonate

CAS-No. : 52125-43-6
EC-No. : 257-675-1
Classification : Self-heat. 1; H251
(REGULATION (EC) No 1272/2008)
Concentration [%] : < 10

2-methoxypropyl acetate

CAS-No. : 70657-70-4
EC-No. : 274-724-2
Classification : Flam. Liq. 3; H226
(REGULATION (EC) No 1272/2008) Repr. 1B; H360D
STOT SE 3; H335

Concentration [%] : < 0,3

WEL substance :

2-methoxy-1-methylethyl acetate

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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 [%] : $\geq 50 - \leq 100$

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 : Carbon dioxide, water, alcohol resistant foam, dry chemical.

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : In case of fires, hazardous combustion gases are formed:
Carbon monoxide (CO)
Carbon dioxide (CO₂)

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Nitrous gases (NO_x)
Sulphur oxides

5.3 Advice for firefighters

- Special protective equipment for firefighters : Use self-contained breathing apparatus
Well closed full protective clothing (coat and pants) including helmet.
- Further information : Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Personal precautions : See: Exposure controls and personal protection.

6.2 Environmental precautions

- Environmental precautions : Do not allow entry to drains, water courses or soil

6.3 Methods and materials for containment and cleaning up

- Methods for cleaning up : Pick up with liquid binding materials and if necessary fill in containers capable of being locked.
Containers in which spilled substance has been collected must be adequately labelled
Dispose of absorbed material in accordance with the regulations.
Clean contaminated floors and objects thoroughly, observing environmental regulations

6.4 Reference to other sections

- Additional advice : Information regarding Safe handling, see chapter 7.
Information regarding personal protective measures see, chapter 8.
Information regarding Waste Disposal, see chapter 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Advice on safe handling : Provide good ventilation of working area (local exhaust ventilation if necessary).
- Advice on protection against : Keep away from sources of ignition

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fire and explosion

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep only in the original container

Further information on storage conditions : Keep container tightly closed and dry in a cool, well-ventilated place.
Protect from light.

Advice on common storage : Do not store or transport together with foodstuffs

7.3 Specific end use(s)

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/m ³
Category short-time exposure	:	1;(I)
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/m ³
Category short-time exposure	:	8;(II)
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

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

2-methoxy-1-methylethyl acetate : End Use: Workers
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

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 acetate : Fresh water
Value: 0,635 mg/l

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

Personal protective equipment

Respiratory protection : Use respiratory protection in case of insufficient exhaust

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- 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 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 goggles
- Skin and body protection : protective clothing
- Hygiene measures : At work do not eat, drink, smoke or take drugs.
Keep away from foodstuffs and beverages.
Wash hands before breaks and after work.
Use barrier skin cream.
- Protective measures : Do not inhale vapours
Avoid contact with eyes and skin
Observe the usual precautions for handling chemicals.
- Environmental exposure controls**
- General advice : Do not allow entry to drains, water courses or soil

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

- Form : liquid
Colour : yellow to red
Odour : ether-like

Safety data

- Flash point : 40 °C
Ignition temperature : not determined
Thermal decomposition : No decomposition if used as prescribed.
Lower explosion limit : not determined

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Upper explosion limit	: not determined
Flammability (solid, gas)	: not determined
Oxidizing properties	: not determined
Auto-ignition temperature	: The substance or mixture is not classified as self heating.
Burning number	: not determined
pH	: Not applicable
Freezing point	: not determined
Starts to boil	: 134 °C
Sublimation point	: not determined
Vapour pressure	: app. 3 hPa
Density	: 1,07 g/cm ³ , 25 °C
Water solubility	: The solvent is water soluble but the product forms two layers.
Partition coefficient: n-octanol/water	: not reasonable
Solubility in other solvents	: not determined
Viscosity, dynamic	: not determined
Viscosity, kinematic	: not determined
Relative vapour density	: not determined
Corrosive in contact with metals	: not determined
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 : No dangerous reaction known under conditions of normal use.

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

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Hazardous decomposition products : when handled and stored appropriately no dangerous decomposition products are known

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product

Acute oral toxicity : no data available
Acute inhalation toxicity : no data available
Acute dermal toxicity : no data available
Skin corrosion/irritation : no data available
Serious eye damage/eye irritation : no data available
Respiratory or skin sensitisation : no data available

Components:

p-Cumylphenyl-1,2-naphthoquinone-2-diazide-4-sulfonate :

Acute oral toxicity : LD50: > 5.000 mg/kg, rat(female)
Skin corrosion/irritation : rabbit, Result: Mild skin irritation, Classification: No skin irritation
Serious eye damage/eye irritation : rabbit, Result: No eye irritation, Classification: No eye irritation
Germ cell mutagenicity
Genotoxicity in vitro : Ames test, Result: negative

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

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SECTION 12: Ecological information

12.1 Toxicity

Components:

p-Cumylphenyl-1,2-naphthoquinone-2-diazide-4-sulfonate:

Toxicity to bacteria : EC50 (Bacteria): > 7 mg/l

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 aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 373 mg/l
Exposure time: 48 h

12.2 Persistence and degradability

Components:

p-Cumylphenyl-1,2-naphthoquinone-2-diazide-4-sulfonate :

Biodegradability : Result: Not readily biodegradable.
Method: OECD 301 D

Chemical Oxygen Demand (COD) : 1.847 mg/g
Method: weighed sample

2-methoxy-1-methylethyl acetate :

Biodegradability : Result: Readily biodegradable.
Biodegradation: 99 %
Exposure time: 28 d

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 environmental compartments : Koc: 1,7
Remarks: Highly mobile in soils

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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

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Product should be taken to a suitable and authorized waste disposal site in accordance with relevant regulations and if necessary after consultation with the waste disposal operator and/or the competent Authorities

Contaminated packaging : Packaging that cannot be cleaned should be disposed of as product waste

SECTION 14: Transport information

ADR

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

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

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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) Schedules of Toxic Chemicals and Precursors : Neither banned nor restricted

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : 108-65-6

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Neither banned nor restricted

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) : Neither banned nor restricted

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 : 1 weakly water polluting (Germany)

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Other regulations : Observe the provisions of The Water Act for installations dealing with substances hazardous to water

15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for a mixture.

SECTION 16: Other information

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

H226	Flammable liquid and vapour.
H251	Self-heating; may catch fire.
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)

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