

AZ 6130

Version
1.0Revision Date:
2017.02.17SDS Number:
70MDGM177978

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : AZ 6130

Manufacturer or supplier's details

Company : Merck Performance Materials Ltd. 1-8-1 Shimomeguro, Meguro-ku 153-8927 Tokyo Japan

Responsible Department : Regulatory Affairs
e-mail: Regulatory_Inquiries_RA@merckgroup.com

Telephone : 03-5434-5270

2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids : Category 3

Eye Irritation : Category 2B

Specific target organ toxicity - single exposure : Category 3 (Respiratory tract irritation, Narcotic effects)

GHS label elements

Hazard pictograms :



Signal word : Warning

Hazard statements : H226 Flammable liquid and vapour.
H320 Causes eye irritation.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.Precautionary statements : **Prevention:**
P210 Keep away from heat/sparks/open flames/hot surfaces.
No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.

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P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

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

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 Call a POISON CENTER/doctor if you feel unwell.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

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

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical name	CAS-No.	Concentration [%]	ENCS No.	ISHL No.
Cresol novolak resin	Trade Secret	Trade Secret	Trade Secret	Trade Secret
Diazonaphthoquinonesulfonic ester	Trade Secret	Trade Secret	Trade Secret	Trade Secret
Propylene glycol monomethyl ether acetate	108-65-6	>= 65	2-3144	2-3144
Cresol	1319-77-3	< 1	3-499; 4-57	3-499; 4-57

Ingredients Contribution to Hazard

Industrial Safety and Health Law Article 57-2

Chemical name	Concentration [%]	Note
Cresol	< 1	

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Chemical name	Concentration [%]	ENCS No.	CAS-No.
Propylene glycol monomethyl ether acetate	≥ 65	2-3144	108-65-6
Cresol	< 1	3-499; 4-57	1319-77-3

4. FIRST AID MEASURES

- General advice : Victim to lie down in the recovery position, cover and keep him warm.
- If inhaled : Remove the casualty into fresh air and keep him calm.
If breathing is weak, irregular or has stopped, open his airway, loosen his collar and belt and administer artificial respiration.
Arrange for transport to the nearest medical facility for examination and treatment by a physician as soon as possible.
- In case of skin contact : In case of contact with skin wash off immediately with soap and water.
Remove all contaminated clothing, shoes and socks from the affected areas as quickly as possible, cutting them off if necessary.
If irritation persists, arrange for transport to the nearest medical facility for examination and treatment by a physician as soon as possible.
- In case of eye contact : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
- If swallowed : If person is conscious, give water or milk to dilute stomach contents.
Never give anything by mouth to an unconscious person.
Do NOT induce vomiting.
If accidentally swallowed obtain immediate medical attention.
- Most important symptoms and effects, both acute and delayed : We have no description of any toxic symptoms.

5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Carbon dioxide, water spray, dry chemical, alcohol resistant foam.
- Unsuitable extinguishing media : Full water jet
- Specific extinguishing methods : Avoid breathing vapors and keep upwind.
Vapor may travel considerable distance to source of ignition and flash back.
Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being build up due to heat.

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Special protective equipment : Wear full protective suit.
for firefighters In case of combustion use a suitable breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Ventilate the area and prevent access to unauthorized people.
Wear personal protective equipment. Unprotected persons must be kept away.

Environmental precautions : Do not allow entry to drains, water courses or soil
Prevent spreading by use of suitable barriers.

Methods and materials for containment and cleaning up : Wearing appropriate personal protective equipment, contain spill, ventilate. Place in suitable container.

7. HANDLING AND STORAGE**Handling**

Advice on safe handling : Keep away from heat, sparks, and flame.
Avoid breathing vapors and contact with skin, eyes, and clothing.
Wash thoroughly after handling.
Keep container closed when not in use.
Take precautionary measures against static discharge.

Storage

Requirements for storage areas and containers : Store in original container.
Keep tightly closed in a dry, cool and well-ventilated place.
Store according to the local statutes, regulations, etc. that apply.

Further information on storage conditions : Keep away from heat and sources of ignition.

Advice on common storage : Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Components with workplace control parameters**

Components	CAS-No.	Value(Form of exposure)	Control parameters	Basis
Cresol	1319-77-3	ACL	5 ppm	JP OEL ISHL

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		OEL-M	5 ppm 22 mg/m3	JP OEL JSOH
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Occupational Exposure Limits -United States of America (USA)

Components	CAS-No.	Value(Form of exposure)	Control parameters	Basis
Cresol	1319-77-3	TWA (Inhalable fraction and vapor)	20 mg/m3	ACGIH

Engineering measures

When practicable the material should be handled in enclosed processes, a p local exhaust ventilation.

Safety shower and eyewash must be in work area.

Personal protective equipment

Respiratory protection : Use respiratory protection in case of insufficient exhaust ventilation or prolonged exposure
Respirator with filter for organic vapour

Hand protection : Gloves (solvent-proof)

Eye protection : Depending on the risk, wear sufficient eye protection (safety glasses with shield.)

Skin and body protection : Clothing suitable to prevent skin contact.
Solvent-resistant protective clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Colour	: clear, amber, red
Odour	: characteristic
Odour Threshold	: No data
pH	: No data
Melting point/freezing point	: < -10 °C Information applies to the solvent.
Boiling point	: 146 °C Information refers to solvent
Flash point	: 46.5 °CInformation refers to solvent
Evaporation rate	: No data

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Flammability (solid, gas)	: No data
Upper explosion limit	: 7.0 %(V) Information refers to solvent
Lower explosion limit	: 1.5 %(V) Information refers to solvent
Vapour pressure	: 5.22 hPa (25 °C) Information refers to solvent
Relative vapour density	: 4.6 The data refer to the solvent
Relative density	: 1.062 Method: (25/25°C)
Density	: No data
Solubility(ies) Water solubility	: Forms two layers.
Partition coefficient: n-octanol/water	: log Pow: 0.36 (25 °C) Information applies to the solvent.
Auto-ignition temperature	: 354 °C Information refers to solvent
Decomposition temperature	: No data
Viscosity, dynamic	: No data
Viscosity, kinematic	: No data
Explosive properties	: No data
Oxidizing properties	: No data

10. STABILITY AND REACTIVITY

Possibility of hazardous reactions	: This product is considered a stable material under normal and anticipated storage and handling conditions.
Conditions to avoid	: Avoid contact with strong oxidizing agents. Contact with strong acids and bases may cause hydrolysis of product. Keep away from heat, sparks, and open flame.
Hazardous decomposition products	: Thermal decomposition may generate carbon dioxide, carbon monoxide, and oxides of nitrogen and sulfur. The residue will contain oxides of silica.

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11. TOXICOLOGICAL INFORMATION**Acute toxicity****Components:****Propylene glycol monomethyl ether acetate:**

Acute oral toxicity : LD50 (Rat, female): > 8,532 mg/kg
Remarks: Source : OECD SIDS

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg
Remarks: Source : OECD SIDS

Cresol:

Acute oral toxicity : LD50 (Rat): 1,454 mg/kg
Remarks: Source : IUCLID

Acute dermal toxicity : LD50 (Rabbit): 2,000 mg/kg
Remarks: Source : NITE

Skin corrosion/irritation**Components:****Propylene glycol monomethyl ether acetate:**

Species: Rabbit
Exposure time: 24 h
Method: OECD Test Guideline 404
Result: No irritation
GLP: No information available.

Cresol:

Assessment: Corrosive
Result: Corrosive
Remarks: Source : EHC

Serious eye damage/eye irritation**Components:****Propylene glycol monomethyl ether acetate:**

Species: Rabbit
Result: Mild eye irritation
Assessment: Irritating to eyes.
Remarks: Source : OECD SIDS

Cresol:

Result: Risk of serious damage to eyes.
Assessment: Risk of serious damage to eyes.
Remarks: Source : CERl

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Respiratory or skin sensitisation**Components:****Propylene glycol monomethyl ether acetate:**

Test Type: Maximisation Test
Exposure routes: dermal
Species: Guinea pig
Method: OECD Test Guideline 406
Result: Does not cause skin sensitisation.
GLP: yes

Germ cell mutagenicity**Components:****Propylene glycol monomethyl ether acetate:**

Genotoxicity in vitro : Test Type: Ames test
Species: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes

STOT - single exposure**Components:****Propylene glycol monomethyl ether acetate:**

Assessment: May cause respiratory irritation., May cause drowsiness or dizziness.
Remarks: Source : NITE

Cresol:

Target Organs: Blood system, Respiratory organs, Heart, Liver, Kidney, Central nervous system
Assessment: Causes damage to organs.
Remarks: Source : NITE

Assessment: May cause drowsiness or dizziness.
Remarks: Source : NITE

STOT - repeated exposure**Components:****Cresol:**

Target Organs: Cardio-vascular system, Blood system, Kidney, Central nervous system
Assessment: Causes damage to organs through prolonged or repeated exposure.
Remarks: Source : NITE

Target Organs: Respiratory organs
Assessment: May cause damage to organs through prolonged or repeated exposure.
Remarks: Source : NITE

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Remarks: No toxicological testing was carried out on the preparation.

12. ECOLOGICAL INFORMATION**Ecotoxicity****Components:****Propylene glycol monomethyl ether acetate:**

- Toxicity to fish : LC50 (*Oryzias latipes* (Orange-red killifish)): > 100 mg/l
Exposure time: 96 h
Remarks: Source : JP MoE, Test for the Ecological Effects of Chemical Substances
- Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 370 mg/l
Exposure time: 48 h
Remarks: Source : JP MoE, Test for the Ecological Effects of Chemical Substances
- Toxicity to algae : ErC50 (*Pseudokirchneriella subcapitata* (green algae)): > 1,000 mg/l
Exposure time: 72 h
Remarks: Source : JP MoE, Test for the Ecological Effects of Chemical Substances
- Toxicity to bacteria : EC10 (activated sludge): > 1,000 mg/l
Exposure time: 30 min
Method: OECD Test Guideline 209

Ecotoxicology Assessment

- Acute aquatic toxicity : This product has no known ecotoxicological effects.
- Chronic aquatic toxicity : This product has no known ecotoxicological effects.

Cresol:

- Toxicity to daphnia and other aquatic invertebrates : EC50 (*Gammarus fasciatus* (freshwater shrimp)): 7 mg/l
Exposure time: 48 h
Remarks: Source : CERI

Persistence and degradability**Components:****Propylene glycol monomethyl ether acetate:**

- Biodegradability : Result: Readily eliminated from water
Biodegradation: 100 %
Exposure time: 8 d
Method: OECD Test Guideline 302B

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Biochemical Oxygen Demand (BOD) : 330 mg/g
Incubation time: 5 d
Remarks: (IUCLID)

Chemical Oxygen Demand (COD) : 1,740 mg/g
Remarks: (IUCLID)

ThOD : 1,820 mg/g
Remarks: (IUCLID)

Bioaccumulative potential**Components:****Propylene glycol monomethyl ether acetate:**

Partition coefficient: n-octanol/water : log Pow: 1.2

Mobility in soil

No data available

Hazardous to the ozone layer

Not applicable

Other adverse effects**Product:**

Additional ecological information : No ecological testing was carried out on the preparation.

13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues : Do not dump this material into sewers, on the ground or into any body of water.
(Comply with your local regulations.)

Contaminated packaging : When discarding an empty container, the contaminated to the inside is removed completely and it discards according to your local regulations

14. TRANSPORT INFORMATION**International Regulations****IATA-DGR**

UN/ID No. : UN 1993

Proper shipping name : Flammable liquid, n.o.s.
(Propylene glycol monomethyl ether acetate)

Class : 3

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Packing group	:	III
Labels	:	Flammable Liquids
Packing instruction (cargo aircraft)	:	366
Packing instruction (passenger aircraft)	:	355
IMDG-Code		
UN number	:	UN 1993
Proper shipping name	:	FLAMMABLE LIQUID, N.O.S. (Propylene glycol monomethyl ether acetate)
Class	:	3
Packing group	:	III
Labels	:	3
EmS Code	:	F-E, <u>S-E</u>
Marine pollutant	:	no

15. REGULATORY INFORMATION**Chemical Substance Control Law**

: Not applicable for Specified Chemical Substance, Monitoring Chemical Substance and Priority Assessment Chemical Substance

Industrial Safety and Health Law

Dangerous or harmful substance requiring notification, Article 57-2 : Cresol

Poisonous and Deleterious Substances Control Law

: Not applicable

Fire Service Law

: Flammable liquids Type 2 Petroleum Hazardous rank III, Water insoluble liquid, Designated Quantity, 1000litre

Pollutant Release and Transfer Register

: Not applicable

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16. OTHER INFORMATION**Disclaimer**

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.