MATERION

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or MEG-150 Epoxy

designation of the mixture
Registration number

Document number F01 **Synonyms** None.

Issue date 28-May-2021

Version number 01

1.3. Details of the supplier of the safety data sheet

Supplier

Company name Materion Advanced Materials
Address 6070 Parkland Boulevard

Mayfield Heights, OH 44124

United States

Division

Telephone 1.216.383.4019

e-mail ehs@materion.comContact person Theodore Knudson1.4. Emergency telephone See Section 16.

number

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

Identified uses Manufacture of computer, electronic and optical products, electrical equipment

Scientific research and development

Other: Manufacture of medical and defense equipment

Uses advised against Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Consumer uses: Private households (= general public = consumers)

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards

Acute toxicity, dermal Category 4 H312 - Harmful in contact with

skin.

Skin corrosion/irritation Category 2 H315 - Causes skin irritation.

Skin sensitisation Category 1B

Germ cell mutagenicity Category 2 H341 - Suspected of causing

genetic defects.

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Carcinogenicity Category 2 H351 - Suspected of causing

cancer.

Specific target organ toxicity - single exposureCategory 1

H370 - Causes damage to organs.

Hazard summary

Harmful in contact with skin. Causes skin irritation. Suspected of causing cancer. Suspected of causing genetic defects. May cause an allergic skin reaction. Causes damage to organs.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: Methanol, Polyamide, proprietary ingredients, RESORCINOL DIGLYCIDYL

ETHER;1,3-BIS(2,3-EPOXYPROPOXY)BENZENE

Hazard pictograms



Signal word Danger

Hazard statements

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H341 Suspected of causing genetic defects.

H351 Suspected of causing cancer. H370 Causes damage to organs.

Precautionary statements

Prevention

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P281 Use personal protective equipment as required.

P272 Contaminated work clothing should not be allowed out of the workplace.

Response

P332 + P313 If skin irritation occurs: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

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

Storage

P405 Store locked up.

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental label

information

For further information, please contact the Product Stewardship Department at +1.216.383.4019.

2.3. Other hazards None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Polyamide	45 - 75	63428-84-2	-	-	
Classification:	-	-			
RESORCINOL DIGLYCIDYL ETHER;1,3-BIS(2,3-EPOXYPROPOXY) BENZENE	20 - 22	101-90-6 202-987-5	-	603-065-00-9	
Classification:	-				
proprietary ingredients	7 - 13	N/A	-	-	

Classification: -

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Chemical name % CAS-No. / EC REACH Registration No. Index No. **Notes** No. Methanol 0 - 267-56-1 603-001-00-X # 200-659-6

Classification: Flam. Liq. 2;H225, Acute Tox. 3;H301, Acute Tox. 3;H311, Acute Tox.

3;H331, STOT SE 1;H370

Specific Concentration Limits: STOT SE 1;H370: C >= 10 %

Other components below reportable

≤ 18

levels

SECTION 4: First aid measures

General information If you feel unwell, seek medical advice (show the label where possible). Wash contaminated

clothing before reuse.

4.1. Description of first aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a physician

if symptoms develop or persist.

Skin contact If skin irritation occurs: Get medical advice/attention. Wash off with soap and water. Wash

contaminated clothing before reuse. Get medical attention if irritation develops and persists.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

present and easy to do. Get medical attention if irritation develops and persists.

Ingestion No adverse effects due to ingestion are expected.

4.2. Most important symptoms and effects, both

acute and delayed

May cause an allergic skin reaction.

4.3. Indication of any immediate medical attention and special treatment needed

Keep victim warm. Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed. Treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital.

SECTION 5: Firefighting measures

General fire hazards None known.

5.1. Extinguishing media

Suitable extinguishing

media

Water fog. Water spray. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing

media

Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or

mixture

None known.

5.3. Advice for firefighters

Special protective equipment for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special firefighting procedures

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during

clean-up. For personal protection, see section 8 of the SDS.

For emergency responders

Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

6.2. Environmental

precautions

Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal. Collect and dispose of

spillage as indicated in section 13 of the SDS. Flush area with water.

6.4. Reference to other

sections

For personal protection, see section 8. For waste disposal, see section 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe

handling

Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Obtain special instructions before use. Wear appropriate personal protective equipment. Do not eat, drink or

smoke when using the product. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Store in accordance with local/regional/national/international regulation.

Not available. 7.3. Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Lithuania. OELs. Limit Values for Chemical Substances, General Requirements					
Components	Туре	Value			
Methanol (CAS 67-56-1)	TWA	260 mg/m3			
		200 ppm			
Titanium oxide (TiO2) (CAS	TWA	5 mg/m3			

EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU,

2017/164/EU

13463-67-7)

Components Value **Type** TWA Methanol (CAS 67-56-1) 260 mg/m3 200 ppm

Biological limit values No biological exposure limits noted for the ingredient(s).

Follow standard monitoring procedures.

Recommended monitoring

procedures

Derived no effect levels (DNELs)

Not available.

Predicted no effect concentrations (PNECs)

Not available.

Exposure guidelines

Lithuania OELs: Skin designation

Methanol (CAS 67-56-1)

Can be absorbed through the skin.

8.2. Exposure controls

Appropriate engineering

controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

General information

Wear chemical protective equipment that is specifically recommended by the manufacturer. Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective

equipment.

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin protection

- Hand protection Wear appropriate chemical resistant gloves.

Avoid contact with the skin. Wear suitable protective clothing. - Other

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

Hygiene measures

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Keep away from food and drink. Wash hands after handling and before eating. Observe any medical surveillance requirements. When using do not smoke. Contaminated work clothing should not be allowed out of the workplace. When using, do not eat, drink or smoke.

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Environmental exposure

controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state Solid. **Form** Film. Colour White. Odour None

Odour threshold Not applicable. Not applicable.

Melting point/freezing point -97,8 °C (-144,04 °F) estimated / Not applicable.

Initial boiling point and

boiling range

Not applicable.

Flash point Not applicable. **Evaporation rate** Not applicable. Flammability (solid, gas) None known. Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not applicable.

Flammability limit - lower

Not applicable.

(%) temperature Flammability limit -

upper (%)

Not applicable.

Flammability limit upper (%) temperature Not applicable.

Explosive limit - lower (

Not applicable.

Explosive limit - lower (

%) temperature

Not applicable.

Explosive limit – upper

(%)

Not applicable.

Explosive limit - upper (

%) temperature

Not applicable.

Vapour pressure Not applicable. Vapour density Not applicable. Not applicable. **Relative density**

Solubility(ies)

Solubility (water) Neglible.

Partition coefficient Not applicable.

(n-octanol/water)

Auto-ignition temperature Not applicable. **Decomposition temperature** Not applicable. Not applicable. Viscosity **Explosive properties** Not explosive. **Oxidising properties** Not oxidising.

9.2. Other information

Density 1,36 g/cm3 estimated

SECTION 10: Stability and reactivity

10.1. Reactivity Strong oxidising agents.

10.2. Chemical stability Material is stable under normal conditions.

10.3. Possibility of hazardous None.

reactions

Material name: MEG-150 Epoxy SDS LITHUANIA 10.4. Conditions to avoid Contact with incompatible materials.

10.5. Incompatible materials

Strong oxidising agents.

At thermal decomposition temperatures, carbon monoxide and carbon dioxide. Ammonia. Nitrogen 10.6. Hazardous

decomposition products oxides (NOx).

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Inhalation May cause irritation to the respiratory system.

Skin contact Toxic in contact with skin. Causes skin irritation. May cause an allergic skin reaction. Eye contact Causes serious eye irritation. Direct contact with eyes may cause temporary irritation.

Ingestion Harmful if swallowed.

May cause an allergic skin reaction. **Symptoms**

11.1. Information on toxicological effects

Acute toxicity Harmful in contact with skin.

Causes skin irritation. Skin corrosion/irritation

Serious eye damage/eye

irritation

Causes serious eye irritation. Direct contact with eyes may cause temporary irritation.

Respiratory sensitisation Not a respiratory sensitizer.

Skin sensitisation May cause an allergic skin reaction. Germ cell mutagenicity Suspected of causing genetic defects.

Carcinogenicity Suspected of causing cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

RESORCINOL DIGLYCIDYL 2B Possibly carcinogenic to humans.

ETHER;1,3-BIS(2,3-EPOXYPROPOXY)BENZENE

(CAS 101-90-6)

Not classified. Reproductive toxicity

Specific target organ toxicity

Causes damage to organs.

- single exposure

Specific target organ toxicity

- repeated exposure

Not classified.

Aspiration hazard Not an aspiration hazard.

Mixture versus substance

information

Not available.

Other information Not available.

SECTION 12: Ecological information

12.1. Toxicity Based on available data, the classification criteria are not met for hazardous to the aquatic

environment.

Product		Species	Test Results
MEG-150 Epoxy			
Aquatic			
Acute			
Crustacea	EC50	Daphnia	61866,1875 mg/l, 48 hours estimated
Fish	LC50	Fish	62590,7539 mg/l, 96 hours estimated
Components		Species	Test Results
Methanol (CAS 67-56-1)			
Aquatic			
Acute			

EC50 Water flea (Daphnia magna) > 10000 mg/l, 48 hours Crustacea Fish LC50 Fathead minnow (Pimephales promelas) > 100 mg/l, 96 hours

12.2. Persistence and

degradability

Not available.

12.3. Bioaccumulative

potential

Not available

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Partition coefficient n-octanol/water (log Kow)

Methanol -0,77

Bioconcentration factor (BCF) Not available. **12.4. Mobility in soil** Not available.

12.5. Results of PBT andThis mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC)

vPvB assessment No 1907/2006, Annex XIII.

12.6. Other adverse effects Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Dispose of in accordance with local regulations. Empty containers or liners may retain some product

residues. This material and its container must be disposed of in a safe manner (see: Disposal

instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

EU waste codeThe Waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

methods/informationCollect and reclaim or dispose in sealed containers at licensed waste disposal site.

Special precautions Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. - 14.6.: Not regulated as dangerous goods.

RID

14.1. - 14.6.: Not regulated as dangerous goods.

ADN

14.1. - 14.6.: Not regulated as dangerous goods.

IATA

14.1. - 14.6.: Not regulated as dangerous goods.

IMDG

14.1. - 14.6.: Not regulated as dangerous goods.

SECTION 15: Regulatory information

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

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended Not listed.

Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended

Not listed

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

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Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Methanol (CAS 67-56-1)

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

RESORCINOL DIGLYCIDYL ETHER;1,3-BIS(2,3-EPOXYPROPOXY)BENZENE (CAS 101-90-6)

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Methanol (CAS 67-56-1)

Other regulationsThis Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as

amended. The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP

Regulation) as amended.

National regulations Young people under 18 years old are not allowed to work with this product according to EU

Directive 94/33/EC on the protection of young people at work, as amended. Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended. According to Directive 92/85/EEC as amended, pregnant women should not work with the product,

if there is the least risk of exposure.

15.2. Chemical safety

assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

CAS: Chemical Abstract Service.

IATA: International Air Transport Association. IMDG: International Maritime Dangerous Goods.

MARPOL: International Convention for the Prevention of Pollution from Ships.

STEL: Short term exposure limit. TWA: Time Weighted Average.

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland

Waterways.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

CEN: European Committee for Standardization.

PBT: Persistent, bioaccumulative, toxic.

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.

vPvB: Very persistent and very bioaccumulative.

IBC: Intermediate Bulk Container.

References

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation

methods and test data, if available.

Training information

Not available.

Not available.

Further information

Transportation Emergency

Call Chemtrec at:

International: 703.741.5970 Spain: 900.868.538 Switzerland: 0800.564.402

Chemtrec's toll free, mobile-enabled number in Germany - 0800 1817059

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particular use and to comply with all Federal, State, Provincial and Local laws, statutes and

regulations.

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