

Safety data sheet
COMMISSION REGULATION (EU) No 2015/830 of 1
June 2015 amending Annex II of Regulation (EU) No
453/2010

Printing date 29.02.2016

Revision: 03.02.2016

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

- **Trade name:** EDM-TEC Resin
 - **Registration number**
The product is a polymer so its monomers have been pre-registered or registered.
 - **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
 - **Application of the substance / the mixture**
Water treatment
Industrial water demineralization, water softening
 - **1.3 Details of the supplier of the safety data sheet**
 - **Manufacturer/Supplier:**
EDM-TEC oHG
Wilhelm-Conrad-Röntgen-Str. 8
56759 Kaisersesch
 - **OR Details:**
Sustainability Support Services (Europe) AB Ideon Science Park, Scheelevägen 17, Beta 5
223 70 Lund, Sweden
 - **Further information obtainable from:**
Telefon: +49 (0) 26 53 / 91 516 – 0
Fax: +49 (0) 26 53 / 91 516 – 26
 - **1.4 Emergency telephone number:**
Emergency telephone number: +49 (0) 26 53 / 91 516 – 0
- Opening hours: 24 hrs
Other comments(e.g. language(s) of the phone service): English

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



Eye Irrit. 2 H319 Causes serious eye irritation.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.

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· **Hazard pictograms**



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· **Signal word** Warning

· **Hazard statements**

H319 Causes serious eye irritation.

· **Precautionary statements**

- P101 If medical advice is needed, have product container or label at hand.
 P102 Keep out of reach of children.
 P103 Read label before use.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P264 Wash thoroughly after handling.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337+P313 If eye irritation persists: Get medical advice/attention.

· **Hazard description:**

Hazard Summary :

Physical Hazard : Not classified for physical hazard

Health Hazard : Causes irritation to eyes

Environment Hazard : Not classified for hazard to environment

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· **3.2 Chemical characterisation: Mixtures**

· **Description** Mixture of substances listed below with nonhazardous additions.

· **Components:**

CAS: 69011-20-7	Styrene-divinylbenzene copolymer with sulphonic acid group in Hydrogen form	40 – 50 %
	Eye Irrit. 2, H319	


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		(Contd. of page 2)
CAS: 69011-18-3	Styrene-divinylbenzene copolymer with Quaternary ammonium group in Hydroxide form	
	 Eye Irrit. 2, H319	
CAS: 7732-18-5 EINECS: 231-791-2	water, distilled, conductivity or of similar purity	50 – 60%
· Additional information: For the wording of the listed risk phrases refer to section 16.		

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:** Do not leave affected persons unattended.
- **After inhalation:**
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**
If skin irritation continues, consult a doctor.
Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**
If irritation develops, seek medical advice.
Flush immediately with plenty of water for at least 15 min. Contact doctor.
- **After swallowing:** Do not induce vomiting; call for medical help immediately.
- **4.2 Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **Information for doctor:** Treat symptomatically and supportively.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **5.2 Special hazards arising from the substance or mixture**
Carbon dioxide (CO₂)
In case of fire, the following can be released:
Nitrogen oxides (NO_x)
Hydrogen chloride (HCl)
- **5.3 Advice for firefighters**
- **Protective equipment:**
Wear self contained breathing apparatus for fire fighting if necessary.
Wear fully protective suit.

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SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Avoid formation of dust.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Avoid generating dusty conditions.
Sweep or scoop up the spilled material into a container for disposal. Close the container tightly. Clean by water.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of dust.
Prevent formation of aerosols.
- **Information about fire - and explosion protection:**
Avoid contamination with oxidizing agents.
- **7.2 Conditions for safe storage, including any incompatibilities**
 - **Storage:**
 - **Requirements to be met by storerooms and receptacles:**
Store in a cool, dry, well-ventilated area away from incompatible substances.
 - **Information about storage in one common storage facility:**
Store away from oxidising agents.
 - **Further information about storage conditions:**
Store in original containers. Store in cool enclosed place. Avoid repeated freeze-thaw cycles
 - **Storage class:** Classification according to operational safety Ordinance
- **7.3 Specific end use(s)** Kindly refer to section 1 of the SDS

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:**
Use adequate ventilation to keep airborne concentrations low.

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- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes.
- **Respiratory protection:**
No respiratory protection is needed but whenever necessary always use NIOSH or European standard EN 149 approved respiratory when necessary.
- **Protection of hands:**



Protective gloves

- **Material of gloves**
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Handle with gloves.
- **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**



Tightly sealed goggles

- **Body protection:** Protective work clothing

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

Form:	Solid
Colour:	According to product specification
Odour:	Odourless
- **pH-value:** 0-14
- **Change in condition**
- **Melting point/Melting range:** -

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Boiling point/Boiling range:	Not applicable.
· Flash point:	Not applicable.
· Ignition temperature:	not applicable
· Decomposition temperature:	Not determined.
· Self-igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Vapour pressure:	Not applicable.
· Density:	Not determined.
· Solubility in / Miscibility with water:	Insoluble.
· Partition coefficient (n-octanol/water):	Not applicable
· Viscosity:	
Dynamic:	Not applicable.
· 9.2 Other information % Volatile	55-56

SECTION 10: Stability and reactivity

· 10.1 Reactivity

Stable under recommended storage condition as mentioned in section 7. Product can decompose at elevated temp. So avoid temp above 220 deg C.

· 10.2 Chemical stability

Stable at room temperature in closed containers under normal storage and handling conditions.

· **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

· **10.3 Possibility of hazardous reactions** No dangerous reactions known.

· **10.4 Conditions to avoid** Avoid formation of dust.

· **10.5 Incompatible materials:** Incompatible with oxidizing materials.

· **10.6 Hazardous decomposition products:** Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information

· **11.1 Information on toxicological effects**

· **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:** No data available.

· **Primary irritant effect:**

· **Skin corrosion/irritation** May cause mild skin irritation.

· **Serious eye damage/irritation**

Causes serious eye irritation.

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- **Respiratory or skin sensitisation**
Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
The substance is not a reproductive toxin.
Mutagenicity: The substance was found to be non-mutagenic as per Ames test.
Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** Quantitative data on the ecological effect of this product are not available.
- **12.2 Persistence and degradability** Not easily biodegradable
- **12.3 Bioaccumulative potential** The substance is non-bioaccumulative.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Consult state, local or national regulations to ensure proper disposal
Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- | | |
|---------------------------------------|------|
| · 14.1 UN-Number | |
| · ADR, ADN, IMDG, IATA | Void |
| · 14.2 UN proper shipping name | |
| · ADR, ADN, IMDG, IATA | Void |

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· 14.3 Transport hazard class(es)	
· ADR, ADN, IMDG, IATA	
· Class	Void
· 14.4 Packing group	
· ADR, IMDG, IATA	Void
· 14.5 Environmental hazards:	
· Marine pollutant:	No
· 14.6 Special precautions for user	Not applicable.
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· UN "Model Regulation":	Void

SECTION 15: Regulatory information

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

- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.

- **Hazard pictograms**



GHS07

- **Signal word** Warning

- **Hazard statements**

H319 Causes serious eye irritation.

- **Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

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

P264 Wash thoroughly after handling.

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

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

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- **National regulations:**
- **Other regulations, limitations and prohibitive regulations**
User to follow national laws and regulations.
- **Substances of very high concern (SVHC) according to REACH, Article 57**
The ingredients of preparation are not listed as SVHC.
- **15.2 Chemical safety assessment:**
A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**
H319 Causes serious eye irritation.
- **Department issuing MSDS:** Product safety department.
- **Contact:**
Telefon: +49 (0) 26 53 / 91 516 – 0
Fax: +49 (0) 26 53 / 91 516 – 26
- **Abbreviations and acronyms:**
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
- **Sources**
 - **REGULATION (EC) No 1272/ 2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/ EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.**

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- *** Data compared to the previous version altered.**
- Section 2: Hazard Identification.
- Section 3: composition/information of ingredients.
- Section 4: First-aid measures.
- Section 5: Fire-fighting measures.
- Section 6: Accidental Release measures.
- Section 7: Handling and storage.
- Section 8: Exposure Controls/Personal protection.
- Section 9: Physical and Chemical properties.
- Section 10: Stability and Reactivity.
- Section 11: Toxicological Information.
- Section 12: Ecological Information.
- Section 13: Disposal consideration.
- Section 15:Regulatory information.