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1 Identification Product identifier · Trade name: Tulsion MB-115 BG · Application of the substance / the mixture Industrial water treatment, Condensate Polishing Unit, Demineralization, Ultrapure water production · Details of the supplier of the safety data sheet · Manufacturer/Supplier: M/s. Thermax Limited, Chemical Division, 93-94, General Block, MIDC Industrial Area, MIDC Bhosari, Pune 411 026 India · Information department: Tel: 00 91 20 67156900/ 91 20 67156901 Off. No.: +91 20 67156900/6901 Fax No. 020-27120206 Emergency telephone number: +91 20 67156900/6901 24 hour emergency assistance: +91 20 67156900/6901 2 Hazard(s) identification · Classification of the substance or mixture The product is not classified, according to the Globally Harmonized System (GHS). · Label elements · GHS label elements Void · Hazard pictograms Void · Signal word Void · Hazard statements Void · Classification system: · NFPA ratings (scale 0 - 4) Health = 0Fire = 0Reactivity = 0· HMIS-ratings (scale 0 - 4) HEALTH • Health = 0 FIRE 0 Fire = 0Reactivity = 0 · Other hazards · Results of PBT and vPvB assessment

• **PBT:** The substances of preparation are not PBT.

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Trade name: Tulsion MB-115 BG (Contd. of page 1) · vPvB: The substances of preparation are not vPvB. 3 Composition/information on ingredients Chemical characterization: Mixtures · Description: Mixture of the substances listed below with nonhazardous additions 69011-20-7 & Mixture of Strong acid cation exchange resin 45-55% 69011-18-3 and Strong base anion exchange resin, Type I 7732 – 18 – 5 Water 45-55% · Dangerous components: Void 4 First-aid measures · Description of first aid measures • After inhalation: Supply fresh air; consult doctor in case of complaints. · After skin contact: Immediately rinse with water. Generally the product does not irritate the skin. · After eye contact: Rinse opened eye for several minutes under running water. · After swallowing: If symptoms persist consult doctor. · Information for doctor: Treat symptomatically and supportively. · Most important symptoms and effects, both acute and delayed No further relevant information available. · Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam

- · For safety reasons unsuitable extinguishing agents: None known
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
 If safe to do so, remove containers from path of fire.

Use standard fire fighting procedures.

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· Protective equipment:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Not required.
 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- 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.
 Protective Action Criteria for Chaminals
- Protective Action Criteria for Chemicals
- · PAC-1:

None of the ingredients is listed.

· PAC-2:

None of the ingredients is listed.

· PAC-3:

None of the ingredients is listed.

7 Handling and storage

- · Precautions for safe handling No special measures required.
- Information about protection against explosions and fires: No special measures required.
- Conditions for safe storage, including any incompatibilities
 Store in cool place. Keep container tightly closed in a dry and well-ventilated place
- · Storage:
- **Requirements to be met by storerooms and receptacles:** Check all containers are clearly labelled and free from leaks.
- Information about storage in one common storage facility:
- Keep containers tightly closed in a dry, cool and well-ventilated place.
- Further information about storage conditions: Keep only in the original container.
- · Specific end use(s) No further relevant information available.

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[·] Handling:

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8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

- · Control parameters
- Components 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.
- Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:
- The usual precautionary measures for handling chemicals should be followed. • **Breathing equipment:** Use breathing protection with high concentration.
- · Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

• Penetration time of glove material The exact break through time has to be fo

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection: Eye wash bottle with pure water.

· Body protection: Complete suit protecting against chemicals.

9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form:

Solid

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	(Contd. of page
Color: Odor:	Amber to brown colored spherical beads Amine Like
Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. Undetermined.
Flash point:	Not applicable.
Auto igniting:	427 °C (800.6 °F)
Danger of explosion:	Product does not present an explosion hazard.
Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)
Density:	Not determined.
Solubility in / Miscibility with Water:	Insoluble.
Partition coefficient (n-octanol/wate	er): Not determined.
Solvent content: Water: VOC content:	45-55 % 0.00 %
Solids content:	45-55 %
Other information	No further relevant information available.

10 Stability and reactivity

· Reactivity No further relevant information available.

· Chemical stability Stable at ambient temperature and under normal conditions of use.

• **Thermal decomposition / conditions to be avoided:** Oxidising chemicals, Nitric acid may attack resin . Reaction with oxidizing chemical may vay from slight degradation to explosive reactions

· Possibility of hazardous reactions No dangerous reactions known.

· Conditions to avoid No further relevant information available.

· Incompatible materials: No further relevant information available.

· Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- · on the skin: No irritant effect.

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· on the eye: No irritating effect.

· Sensitization: No sensitizing effects known.

• Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment
- **PBT:** The substances of preparation are not PBT.
- · vPvB: The substances of preparation are not vPvB.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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· Uncleaned packagings:

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• Recommendation: Disposal must be made according to official regulations.

· Recommended cleansing agent: Water, if necessary with cleansing agents.

4 Transport information	
· UN-Number · DOT, ADR, IMDG, IATA	Not Regulated
UN proper shipping name DOT, ADR, IMDG, IATA	Not Regulated
· Transport hazard class(es)	
· DOT, ADR, ADN, IMDG, IATA · Class	Not Regulated
 Packing group DOT, ADR, IMDG, IATA 	Not Regulated
· Environmental hazards:	Not applicable.
· Special precautions for user	Not applicable.
 Transport in bulk according to Annex MARPOL73/78 and the IBC Code 	Il of Not applicable.
· UN "Model Regulation":	Not Regulated

15 Regulatory information

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

No further relevant information available.

· Sara

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

· Hazardous Air Pollutants

None of the ingredients is listed.

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· Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value)

TLV (ACGIH):1000 ppm.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

- · GHS label elements Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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.

· Department issuing SDS: Product safety department.

Contact:

Tel: 00 91 20 67156900/ 91 20 67156901 Off. No.: +91 20 67156900/6901 Fax No. 020-27120206

- · Date of preparation / last revision 08/24/2022
- Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances

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Safety Data Sheet OSHA - DIRECTIVE NUMBER: CPL 02-02-079 Hazard Communication Standard (HCS 2012)

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CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit

US