SAFETY DATA SHEET

SECTION 1) CHEMICAL PRODUCT AND MANUFACTURER'S IDENTIFICATION

1.1 Product Identifier:

Product ID:	MBD-10	**Revision Date:**	Jun 04, 2025
Product Name:	Mixture of Hydroxide form Type 1 Anion and Hydrogen form Cation resin	**Version:**	1.0
UFI Number:	N.A		

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

	Water Purification	**Date Printed:**	Aug 06, 2026
		Supersedes Date:	N.A.

1.3 Details of the Supplier of the Safety Data Sheet:

Manufacturer's Name:	ResinTech, Inc.
Address:	1801 Federal Street, Camden, NJ, US, 08105
Information Phone Number:	(856) 768-9600
Email:	ixresin@resintech.com

1.4 Emergency telephone number:

Emergency Phone:	ChemTrec, (800) 424-9300

SECTION 2) HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Eye Irritation - Category 2

2.2 Label Elements

Pictograms

Signal Word

Warning

Hazardous Statements - Health

H319 - Causes serious eye irritation

Precautionary Statements - General

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.

Precautionary Statements - Prevention

P264 - Wash thoroughly after handling.

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

Precautionary Statements - Response

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.

Precautionary Statements - Storage

No precautionary statement available.

Precautionary Statements - Disposal

No precautionary statement available.

2.3 Other hazards

The substance(s) is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3) COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable.

3.2 Mixtures

CAS	Chemical Name	GHS Classifications	% By Weight	EC No
0007732-18-5	WATER	N.A.	53% - 65%	231-791-2
0069011-20-7	BENZENE, DIETHENYL-, POLYMER WITH ETHENYLBENZENE AND ETHENYLETHYLBENZENE, SULFONATED	Eye Irr. 2, H319	15% - 21%	614-895-6
0069011-18-3	BENZENE, DIETHENYL-, POLYMER WITH ETHENYLBENZENE AND ETHENYLETHYLBENZENE, CHLOROMETHYLATED, TRIMETHYLAMINE-QUATERNIZED, HYDROXIDE	Eye Irr. 2, H319	20% - 26%	-

Specific chemical identity and/or exact percentage (concentration) of the composition has been withheld to protect confidentiality.

SECTION 4) FIRST-AID MEASURES

4.1 Description of first aid measures

Inhalation

Remove source of exposure or move person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

Eye Contact

Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for a duration of 15-20 minutes. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists: Get medical advice/attention.

Skin Contact

Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Wash with plenty of lukewarm, gently flowing water for a duration of 15-20 minutes. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Ingestion

Rinse mouth. If you feel unwell/If concerned: Get medical advice/attention.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat according to symptoms (decontamination, vital functions), no known specific antidote. Treatment should be supportive and based on the judgement of the physician in response to the reaction of the patient.

SECTION 5) FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing Media

Small Fire : Dry chemical, foam, carbon dioxide, water-spray or alcohol-resistant foam. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Large Fire : Water spray, fog or alcohol-resistant foam.

Unsuitable Extinguishing Media

Do not use straight stream of water.

5.2 Special hazards arising from the substance or mixture

Dense smoke may be generated while burning.

5.3 Advice for firefighters

Fire-fighting Procedures

Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Cool containers with flooding quantities of water until well after fire is out. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Special Protective Actions

Wear protective pressure self-contained breathing apparatus (SCBA) and full turnout gear.

SECTION 6) ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Emergency Procedure

Isolate hazard area and keep unauthorized personnel away. Ventilate closed spaces before entering. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

Personal Precautions

Avoid breathing dust. Avoid contact with skin, eye or clothing.

Recommended Equipment

Wear chemical protective clothing and positive pressure self-contained breathing apparatus (SCBA).

6.2 Environmental Precautions

Stop spill/release if it can be done safely. Prevent spilled material and water from clean-up/firefighting from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.

6.3 Methods and Materials for Containment and Cleaning up

Avoid raising dust. Safely collect powdered material and deposit in sealed containers for disposal. Ventilate and wash area after clean-up is complete

6.4 Reference to other sections

See section 8 for specifics on protective personal equipment (PPE). Concerning disposal elimination after cleaning, see section 13.

SECTION 7) HANDLING AND STORAGE

7.1 Precautions for safe handling

General

Wash hands after use. Avoid contact with skin, eye or clothing. Avoid breathing dust. Use good personal hygiene practices. Eating, drinking and smoking in work areas is prohibited. Remove contaminated clothing and protective equipment before entering eating areas. Eyewash stations and showers should be available in areas where this material is used and stored All containers must be properly labelled.

7.2 Conditions for safe storage, including any incompatibilities

Storage Room Requirements

Store in a cool, dry, well ventilated area, away from sources of ignition and incompatibilities. Keep containers securely sealed when not in use. Containers that have been opened must be carefully resealed to prevent leakage. Empty containers retain residue and may be dangerous.

Ventilation Requirements

Use only with adequate ventilation to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source. Report ventilation failures immediately.

7.3 Specific end use(s)

No data available.

SECTION 8) EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

None of the chemicals in Section 3 are regulated under "ACGIH", "ACGIH_carcinogen", "ACGIH_Notations", "ACGIHsmg - ACGIH_STEL_(mg/m3)", "ACGIHsppm - ACGIH_STEL_ppm", "ACGIHtmg", "ACGIHtppm", "BR_NR_15_Annex_XI - Brazil_NR 15 - Annex 11 of NR 15 (Tolerance Limits for Chemical Agents and Inspections in the Workplace)", "BR_NR_15_Annex_XI_Ate48horas_semana_mg_m3 - Brazil_NR 15 - Annex 11 of NR 15 (Tolerance Limits for Chemical Agents and Inspections in the Workplace) - 48-Hours/Week mg/m3", "BR_NR_15_Annex_XI_Ate48horas_semana_ppm - Brazil_NR 15 - Annex 11 of NR 15 (Tolerance Limits for Chemical Agents and Inspections in the Workplace) - 48-Hours/Week ppm", "DE_AS_Anderung - Germany Occupational Exposure Limit Last Date of change (Änderung Monat/Jahr)", "DE_AS_Bemerkungen - Germany Occupational Exposure Limit Remarks, (Arbeitsplatzgrenzwert Spitzenbegr,Bemerkungen)", "DE_AS_mg - Germany Occupational Exposure Limit mg/m3 , (Arbeitsplatzgrenzwert Spitzenbegr)", "DE_AS_ppm - Germany Occupational Exposure Limit ppm (ml/m3), (Arbeitsplatzgrenzwert Spitzenbegr)", "DE_AS_UF - Germany Occupational Exposure Limit, Top limit - overshoot factor (Arbeitsplatzgrenzwert Spitzenbegr, Überschrei-tungsfaktor)", "DNEL_Carcinogenic - Derived No Effect Level Carcinogenic", "DNEL_Inh_Local_mg - Derived No Effect Level Inhalation Local", "DNEL_Inh_Systemic_mg - Derived No Effect Level Inhalation Systemic", "EU_IOELV - European Indicative Occupational Exposure Limit Value", "EU_IOELV_Directive - European Indicative Occupational Exposure Limit Directive", "EU_IOELV_Notation - European Indicative Occupational Exposure Limit", "EU_IOELV_STEL_mg - European Indicative Occupational Exposure Limit short-term exposure limit mg/cm3", "EU_IOELV_STEL_ppm - European Indicative Occupational Exposure Limit Value short-term exposure limit ppm", "EU_IOELV_TWA_mg - European Indicative Occupational Exposure Limit Value Time Weighted Average", "EU_IOELV_TWA_ppm - European Indicative Occupational Exposure Limit Value Time Weighted Average", "FR_ED984_VLCT_or_VLE_15min_mg_m3 - France, ED 984, Des Valeure limites court terme (VLCT) ou Valeure limites d''exposition (VLE) 15 minute, mg/m3", "FR_ED984_VLCT_or_VLE_15min_ppm - France, ED 984, Des Valeure limites court terme (VLCT) ou Valeure limites d''exposition (VLE) 15 minute, ppm", "FR_ED984_VLCT_or_VLE_5min_mg_m3 - France, ED 984, Des Valeure limites court terme (VLCT) ou Valeure limites d''exposition (VLE) 5 minute, mg/m3", "FR_ED984_VLCT_or_VLE_5min_ppm - France, ED 984, Des Valeure limites court terme (VLCT) ou Valeure limites d''exposition (VLE) 15 minute, ppm", "FR_ED984_VLEP - France, ED 984, Des Valeure limites d''exposition professionnelle", "FR_ED984_VLEP_Date - France, ED 984, Date", "FR_ED984_VLEP_mg_m3 - France, ED 984, Des Valeure limites d''exposition professionnelle miligram per cubic meter", "FR_ED984_VLEP_ppm - France, ED 984, Des Valeure limites d''exposition professionnelle ppm", "FR_TMP - France, ED 984, Tableaux des maladies professionnelles", "UK_WEL - United Kingdom_Workplace Exposure Limits", "UK_WEL_Health - United Kingdom_Workplace Exposure Standard Health Effects", "UK_WEL_Notes - United Kingdom_Workplace Exposure Standard Notes", "UK_WELsmg - United Kingdom_Workplace Exposure Limit STEL Short-term exposure limit (15-minutes) mg/m3", "UK_WELsppm - United Kingdom_Workplace Exposure Limit STEL Short-term exposure limit (15-minutes) ppm", "UK_WELtmg - United Kingdom_Workplace Exposure Limits TWA Long-term exposure limit (8-hour Time-Weighted Average) mg/m3", "UK_WELtppm - United Kingdom_Workplace Exposure Limits TWA Long-term exposure limit (8-hour Time-Weighted Average) ppm"

8.2 Exposure Controls

Environmental Exposure Control

Use the appropriate container to avoid environmental contamination.

Appropriate Engineering Controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Eye protection

Wear eye protection with side shields or goggles.

Respiratory protection

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed. Check with respiratory protective equipment suppliers.

Skin Protection

Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Use of an apron and over-boots of chemically impervious materials such as neoprene or nitrile rubber. Launder soiled clothes or properly disposed of contaminated material, which cannot be decontaminated.

SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

% HAPS	0.00%
% Solids by Vol	N/A

% Solids By Weight	0.00%
% VHAPS	0.00%
% VOC	0.00%
Density	0.69 g/ml
Density HAPS	0.00 lb/gal
Density VHAPS	0.00 lb/gal
Density VOC	0.00 lb/gal
Specific Gravity	N/A

Flash Point Symbol	N/A
Flash Point	N/A
Coefficient Water/Oil	N/A
Flammability	N/A
Water Solubility	Insoluble
Viscosity	N/A
Appearance	Brown/Black and Amber
pH	Acidic or Basic when exchanging ions with water
Odor Description	Odorless
Upper Explosion Level	N/A
Lower Explosion Level	N/A
Vapor Pressure	N/A
Vapor Density	N/A
Freezing Point	N/A
Melting Point	N/A
High Boiling Point	N/A
Low Boiling Point	N/A
Auto Ignition Temp	N/A
Evaporation Rate	N/A
Decomposition Pt	N/A

SECTION 10) STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical Stability

Stable under normal storage and handling conditions.

10.3 Possibility of Hazardous Reactions

Will not occur.

10.4 Conditions To Avoid

Avoid heat, sparks, flame and contact with incompatible materials

10.5 Incompatible Materials

Strong bases, acids, and oxidizing agents.

10.6 Hazardous Decomposition Products

Oxides of carbon.

SECTION 11) TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute Toxicity

The Acute Toxicity Estimate (ATE) for an oral exposure to this mixture is >5000 mg/kg body weight

The Acute Toxicity Estimate (ATE) for a dermal exposure to this mixture is >5000 mg/kg body weight

The Acute Toxicity Estimate (ATE) for an inhalation (vapour) exposure to this mixture is >20 mg/l

Aspiration Hazard

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Germ Cell Mutagenicity

Based on available data, the classification criteria are not met.

Reproductive Toxicity

Based on available data, the classification criteria are not met.

Respiratory/Skin Sensitization

Based on available data, the classification criteria are not met.

Serious Eye Damage/Irritation

Causes serious eye irritation

Skin Corrosion/Irritation

Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity - Repeated Exposure

Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity - Single Exposure

Based on available data, the classification criteria are not met.

Likely Routes of Exposure

Inhalation, Ingestion, Skin contact, Eye contact

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : No data available.

11.2.2 Other Information

Other information : Symptoms related to the physical, chemical and toxicological characteristics, for further information see section 4.

SECTION 12) ECOLOGICAL INFORMATION

12.1 Toxicity

Based on available data, the classification criteria are not met.

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative Potential

No data available.

12.4 Mobility in Soil

No data available.

12.5 Results of the PBT and vPvB assessment

No data available.

12.6 Endocrine Disrupting Properties

The substance(s) is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU)

2017/2100 or Commission Regulation (EU) 2018/605.

12.7 Other Adverse Effects

No data available.

12.8 Additional Information

No data available.

SECTION 13) DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

Product/Packaging disposal recommendations : Avoid release to the environment. Dispose of empty containers and wastes safely. See Section 7 for information on safe handling. Refer to manufacturer/supplier for information on recovery/recycling. Recycling is preferred to disposal or incineration. If recycling is not possible, eliminate in accordance with local valid waste disposal regulations. Handle contaminated packages in the same way as the substance itself. Dispose of contaminated materials in accordance with current regulations. European waste catalogue (2001/573/EC, 75/442/EEC, 91/689/EEC) : This material and its container must be disposed of as hazardous waste. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

13.2 Waste Disposal

Waste Treatment Methods

It is the responsibility of the user of the product to determine at the time of disposal whether the product meets local criteria for hazardous waste. Waste management should be in full compliance with national, state and local laws.

SECTION 14) TRANSPORT INFORMATION

	Land Transportation (ADR/RID)	Inland Waterway Transport (ADN(R))	Air Transport (ICAO/IATA)	Marine Transport (IMDG)
14.1 UN Number	Not Regulated	Not Regulated	Not Regulated	Not Regulated
14.2 UN proper shipping name	N/A	N/A	N/A	N/A
14.3 Transport Hazard class(es)	Not Applicable	Not Applicable	Not Applicable	Not Applicable
14.4 Packing group	Not Applicable	Not Applicable	Not Applicable	Not Applicable
14.5 Environmental hazards	No Data Available	No Data Available	No Data Available	No Data Available
14.6 Special precautions for user	No Data Available	No Data Available	No Data Available	No Data Available
14.7 Maritime transport in bulk according to IMO instruments	No Data Available	No Data Available	No Data Available	No Data Available

SECTION 15) REGULATORY INFORMATION

CAS	Chemical Name	% By Weight	Regulation List
0007732-18-5	WATER	53% - 65%	DSL - Domestic Substance List, TSCA - Toxic Substances Control Act (TSCA), EU_EINECS - European_EC_Inventory_EINECS, EU_EC_Inventory - European Inventory

CAS	Chemical Name	% By Weight	Regulation List
0069011-20-7	BENZENE, DIETHENYL-, POLYMER WITH ETHENYLBENZENE AND ETHENYLETHYLBENZENE, SULFONATED	15% - 21%	DSL - Domestic Substance List, SARA312, TSCA - Toxic Substances Control Act (TSCA), EU_EC_Inventory - European Inventory
0069011-18-3	BENZENE, DIETHENYL-, POLYMER WITH ETHENYLBENZENE AND ETHENYLETHYLBENZENE, CHLOROMETHYLATED, TRIMETHYLAMINE-QUATERNIZED, HYDROXIDE	20% - 26%	DSL - Domestic Substance List, SARA312, TSCA - Toxic Substances Control Act (TSCA)

SECTION 16) OTHER INFORMATION

Glossary

ACGIH - American Conference of Governmental Industrial Hygienists; Acute Tox. - acute toxicity; 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; CAS - Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances); Chemtrec - Chemical Transportation Emergency Center; CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures; DSL - Domestic Substances List; EC No - The EC Inventory (EINECS, ELINCS and the NLP-list)is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union) EH40/2005 EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/opengovernment-li- cence/); EINECS - European Inventory of Existing Commercial Chemical Substances; ELINCS - European List of Notified Chemical Substances; Eye Dam. - Seriously damaging to the eye; Eye Irrit. – Irritant to the eye; Flam. Liq. – Flammable Liquid; Flam. Sol. – Flammable Solid; GHS - "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations; HMIS - Hazardous Material Information Service; IATA - Dangerous Goods Regulations (DGR) for the air transport (IATA); IMDG - International Maritime Dangerous Goods Code; MARPOL - International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant); IOELV - Indicative Ocupational Exposure Limit Value; LC - Lethal Concentration; LD - Lethal Dose; NFPA - National Fire Protection Association; OEL - Occupational Exposure Limits; NLP - No-Longer Polymer; PBT - Persistent, Bioaccumulative and Toxic; PEL - Permissible Exposure Limit; SARA 313 - Superfund Amendments and Reauthorization Act, Section 313; SCBA - Self Contained Breathing Apparatus; ppm - parts per million; REACH - Registration, Evaluation, Authorization and Restriction of Chemicals; Resp. Sens. - Respiratory sensitization; Resp. – Respiratory Irritation; RID - (Regulations concerning the International carriage of Dangerous goods by Rail; Skin Corr. - Corrosive to skin; Skin Irrit. - Irritant to skin; Skin Sens. - Skin sensitization; STEL - Short-term exposure limit; STOT SE - Specific target organ toxicity - single exposure; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act Public Law 94-469; TWA - Time-weighted average; vPvB - Very Persistent and very Bioaccumulative; WEL - Workplace exposure limit.

Training advice

Training staff on good practice. Manipulations are to be done only by qualified and authorized persons.

General

This Safety Data Sheet has been prepared in accordance with Regulation (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006 (REACH).

Classification methods used to derive the classification for mixtures according to Regulation (EC) 1272/2008

Calculation methods have been used for evaluation of all hazard classes assigned to the product under Article 9 of Regulation (EC) No. 1272/2008.

Key literature references and sources for data

ECHA Dissemination Database, ECHA (European Chemicals Agency), Supplier SDS, INCHEM, ECOTOX (Ecotoxicology Knowledgebase), RTECS (Registry of Toxic Effects of Chemical Substances).

Classification methods used to derive the classification for mixtures according to Regulation (EC) 1272/2008

Calculation methods have been used for evaluation of all hazard classes assigned to the product under Article 9 of Regulation (EC) No. 1272/2008.

Version 1.0:

Revision Date: Jun 06, 2025

Version 1.0

Full text of H-Statements referred to under Section 3

H319 Causes serious eye irritation

DISCLAIMER

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.