

Safety Data Sheet WSA-7011 Date of issue: 11/17/2014 Version: 1.0

| SECTION 1: Identification of the sul | bstance. | /mixture and of th <u>e company</u> | //undertaking | |
|---|-------------|--|---------------------|------------------------------------|
| I.1. Product identifier | | | | |
| Product form | : Mixtu | re | | |
| Physical state | : Liquio | Ł | | |
| Product name | : AMIN | IOPROPYLSILSESQUIOXANE-METH | IYLSILSEQUIOX | ANE IN AQUEOUS SOLUTION |
| Product code | : WSA | -7011 | | |
| Synonyms | | YDROXYSILYLPROPYLAMINE-MET IOPROPYLSILSESQUIOXANE-METH | | - |
| Chemical family | : SILIC | ATE SOLUTION | | |
| .2. Relevant identified uses of the sub | stance or | mixture and uses advised against | | |
| Jse of the substance/mixture | | nical intermediate esearch and industrial use only | | |
| I.3. Details of the supplier of the safety | data she | et | | |
| GELEST, INC. 1 East Steel Road Morrisville, PA 19067 JSA 7 215-547-1015 - F 215-547-2484 - (M-F): 8:00 nfo@gelest.com - www.gelest.com |) AM - 5:30 | PM EST | | |
| .4. Emergency telephone number | | | | |
| Emergency number | · CHEI | MTREC: 1-800-424-9300 (USA); +1 7 | 03-527-3887 (Inte | rnational) |
| | . OHEI | | 00 027 0007 (inte | material |
| ECTION 2: Hazards identification | | | | |
| .1. Classification of the substance or | mixture | | | |
| lassification (GHS-US) | | | | |
| lot classified | | | | |
| | | | | |
| .2. Label elements | | | | |
| GHS-US labeling | | | | |
| lo labeling applicable | | | | |
| .3. Other hazards | | | | |
| lo additional information available | | | | |
| 4. Unknown acute toxicity (GHS-US) | | | | |
| No data available | | | | |
| | | | | |
| ECTION 3: Composition/information | on on in | gredients | | |
| .1. Substance | | | | |
| lot applicable | | | | |
| .2. Mixture | | - | | |
| Name | | Product identifier | % | Classification (GHS-US) |
| Water | | (CAS No) 7732-18-5 | < 75 | Not classified |
| Aminopropylsilsesquioxane-methylsilsequioxane cop oligomer | olymer | (CAS No) 1411854-75-5 | > 25 | Not classified |
| SECTION 4: First aid measures | | | | |
| .1. Description of first aid measures | | | | |
| First-aid measures general | · Pom | ove contaminated clothing and shoes. | In case of accide | at or if you fool upwell, sook |
| inst-aid measures general | medio | cal advice immediately (show the labe able show packaging or label. | | |
| irst-aid measures after inhalation | | ove to fresh air and keep at rest in a p medical advice. | osition comfortable | e for breathing. If you feel unwel |
| irst-aid measures after skin contact | : Wash | with plenty of soap and water. | | |
| irst-aid measures after eye contact | | ediately flush eyes thoroughly with wat ent and easy to do. Continue rinsing. G | | |
| irst-aid measures after ingestion | : Neve | r give anything by mouth to an uncons | scious person. Ge | t medical advice/attention. |

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| 4.0 Martine antest second and affect | te le de serte en d'alabara d |
|---|--|
| 4.2. Most important symptoms and effect Symptoms/injuries after inhalation | May cause irritation to the respiratory tract. Overexposure may cause: Coughing. Headache. Nausea. |
| Symptoms/injuries after skin contact | : May cause skin irritation. |
| Symptoms/injuries after eye contact | : May cause eye irritation. |
| Symptoms/injuries after ingestion | : May be harmful if swallowed. |
| 4.3. Indication of any immediate medical | attention and special treatment needed |
| No additional information available | |
| SECTION 5: Firefighting measures | |
| 5.1. Extinguishing media | |
| Suitable extinguishing media | : Not combustible. |
| Unsuitable extinguishing media | : None known. |
| 5.2. Special hazards arising from the sub | ostance or mixture |
| No additional information available | |
| 5.3. Advice for firefighters | |
| Protection during firefighting | : Avoid all eye and skin contact and do not breathe vapor and mist. |
| SECTION 6: Accidental release meas | sures |
| 6.1. Personal precautions, protective equ | |
| 6.1.1. For non-emergency personnel | |
| Emergency procedures | : Evacuate unnecessary personnel. |
| | |
| 6.1.2. For emergency responders | |
| Protective equipment | : Equip cleanup crew with proper protection. |
| 6.2. Environmental precautions | |
| Prevent entry to sewers and public waters. Notify | authorities if liquid enters sewers or public waters. |
| 6.3. Methods and material for containme | nt and cleaning up |
| Methods for cleaning up | : Clean up any spills as soon as possible, using an absorbent material to collect it. Sweep or shovel spills into appropriate container for disposal. |
| 6.4. Reference to other sections | |
| No additional information available | |
| SECTION 7: Handling and storage | |
| 7.1. Precautions for safe handling | |
| Precautions for safe handling | : Avoid all eye and skin contact and do not breathe vapor and mist. Provide good ventilation in process area to prevent accumulation of vapors. |
| Hygiene measures | : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse. |
| 7.2. Conditions for safe storage, including | ng any incompatibilities |
| Storage conditions | : Keep container tightly closed. |
| 7.3. Specific end use(s) | |
| No additional information available | |
| SECTION 8: Exposure controls/perso | onal protection |
| 8.1. Control parameters | |
| No additional information available | |
| 8.2. Exposure controls | |
| Appropriate engineering controls | : Provide local exhaust or general room ventilation. |
| Personal protective equipment | : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. |
| | |
| Hand protection | · Neoprene or nitrile rubber gloves |
| Hand protection Eve protection | : Neoprene or nitrile rubber gloves. : Safety glasses, Contact lenses should not be worn. |
| Hand protection Eye protection Skin and body protection | Neoprene or nitrile rubber gloves. Safety glasses. Contact lenses should not be worn. Wear suitable protective clothing. |

Safety Data Sheet

: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified combination organic vapor - amine gas (brown cartridge) respirator.

| 1.Information on basic physical and chemical propertiesPhysical state:: Clear solution,Wheevame:Clear solution,Wheevames:: 250 - 500 g/molColor:: No data availableOdor:: No data availableOdor Imbernolod:: No data availableOdar Imperature:: No data availableOdar Imbernolod:: No data availableOdar Imbernolod:: No data availableOdar Immability (odar gava):: No data availableOdar Imbernolod:: No data available | SECTION 9: Physical and chemical | properties |
|--|---|----------------------------|
| Physical state : Liquid Appearance : Clear solution. Appearance : Clear solution. Appearance : Straw. Color : Straw. Odor : Straw. Odor : No data available Odir : No data available Velative evaporation rate (butyl acetate=1) : No data available Stating point : 1 0 - 10.5 Teacing point : No data available Auto-gainion temperature : No data available Decomposition temperature : No data available Appor prossure : < 1 mm Hg @ 20°C | | |
| Appearance : Clear solution. Molecular mass : 250 - 500 g/mol Coor : No data available Odor fumebold : No data available Odor fumebold : No data available Velocition : No data available Velocition temperature : No data available Soluting point : No data available Auto-grainion temperature : No data available Soluting yoint : No data available Auto-grainion temperature : No data available Solub | | |
| adjecular mass ::: :: </td <td>•</td> <td></td> | • | |
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| Dodr i. No data available Oder treshold i. No data available Affractive index souicable i. No data available H i. No data available Heating evaporation rate (butyl acetate-1) i. No data available Deling point i. No data available Decomposition temperature i. No data available Decomposition temperature i. No data available Decomposition temperature i. No data available Hainwability (solid, gas) i. No data available Atalve density at 0° C i. No data available Atalve density (solid, gas) i. No data available Vecosity, kinematic i. No data available Vecosity, Contention i | Color | - |
| Ddor threshold : No data available Fdractive index : No data available H : No data available Hinto : No data available Heiduing point : 1'° C Freezing point : No data available Jaling point : No data available Jaling point : No data available Jacomposition temperature : No data available Jacomanic : No data | Odor | |
| Refractive index : No data available PH : No data available PH solution : Io 10.5 Relative evaporation rate (butyl acetate=1) : No data available Weiting point : No data available Soluting point : No data available Soluting point : No data available Auto-ignition temperature : No data available Auto-ignition temperature : No data available Personne officion temperature : No data available Auto-ignition temperature : No data available Auto-ignition temperature : No data available Auto-ignition temperature : No data available Ageor pressure : 4.1 mm bill (s 02.0°C Relative density : 1.1 Solubility : No data available Viscosity, Annanic : No data available Viscosity, Annanic : No data available Solubility : No data available Solubility : No data available Viscosity, Annanic : No data available Solubility of heardous relations : No data available Viscosity, Stability and reacetivity : No data available < | Odor threshold | : No data available |
| AH solution : 10 - 10.5 Relative exaporation rate (butyl acetate=1) : No data available Joinn point : 10 ° C - initial (water) Terezing point : 10 ° C - initial (water) Terezing point : 10 ° C - initial (water) Tash point : No data available Auto-ignition temperature : No data available Decomposition temperature : No data available Decomposition temperature : No data available Decomposition temperature : No data available Jammability (odil, gas) : No data available Vapor pressure : < 1 mm Hg @ 20° C | Refractive index | : No data available |
| Relative evaporation rate (butyl acetate=1) : No data available Melting point : 1 °C Treacing point : 100 °C - initial (water) Tash point : No data available Suding point : No data available Mul-ingniton temperature : No data available Decomposition temperature : No data available No data available No data available No data available No data available Decomposition : No data available Decomposition information No data available Decomposition available Decomposition available Decomposition information available Decomposition information available Decomposition products Decomposition formation Nor Additional Information available Decomposition products Decomposition formation Decomposition products Decomposition dicoxie. Sodium hydroxie. Decomposition dicoxie. Sodium hydroxie. | рН | : No data available |
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| Freezing point I No data available Soling point I 100 °C - initial (water) Tash point I No data available Auto-ignition temperature I No data available Decomposition temperature I No data available Decomposition temperature I No data available Paramability (solid, gas) I No data available Qapor pressure I 1 mm Hg @ 20°C Relative density I I.1 Solubility I Soluble in water. -og Pow I No data available Solubility I No data available //scostly, kinematic I No data available //scostly, kinematic I No data available //scostly, dynamic I No data available /scostly, dynamic I No data available | Relative evaporation rate (butyl acetate=1) | : No data available |
| Baling point i: 100 °C - inital (water) Fash point i: No data available Valuation (intemperature) i: No data available Composition temperature i: No data available Value density i: 1.1 Solubility i: Solubile in water. i: Solubile in water. i: No data available i: No data | Melting point | : -1 °C |
| Flash point : No data available Auto-igniton temperature : No data available Decomposition temperature : No data available Planmability (solid, gas) : No data available Planmability (solid, gas) : : Vapor pressure : : Planta density : : Soluble in water. : No data available Soluble in water. : No data available gog Pow : No data available viscosity, kinematic : No data available viscosity, dynamic : No data available Sylobsive Imits : No data available Doiding properties : No data available Sylobsive Imits : No data available Doiding properties : No data available Sylobsive Imits : No data available Doiding properties : No data available Sylobsive Imits : No data available Doiding Information available : No data available Sylobsive Imits : No data available Sylobsive Imits : No data available Doiding Information available : No data available Sylobsive Imits : No data available Sylobsive I | Freezing point | : No data available |
| Auto-gnition temperature : No data available Decomposition temperature : No data available Planmability (solid, gas) : No data available Vapor pressure : 1 mm Hg @ 20°C Relative vapor density at 20 °C : No data available Vapor pressure : 1 1 Solubility : 1 1 Solubility : Soluble in water. og fow : No data available og fow <td>Boiling point</td> <td>: 100 °C - initial (water)</td> | Boiling point | : 100 °C - initial (water) |
| Decomposition temperature i. No data available Hammability (solid, gas) i. No data available /apor pressure i. < 1 mm Hg @ 20°C | Flash point | : No data available |
| Flammability (solid, gas) i. No data available /apor pressure i. < 1 mm Hg @ 20°C | Auto-ignition temperature | : No data available |
| <pre>vapor pressure :: < 1 mm Hg @ 20°C Relative vapor density at 20 °C : No data available Relative density :: 1.1 Solubility :: Solubility : Solubility : Solubility :: Solubility : Solubility :</pre> | Decomposition temperature | : No data available |
| Relative vapor density at 20 °C c No data available Relative density c 1.1 Solubility c Solubility c Solubili | Flammability (solid, gas) | : No data available |
| Relative density : Solubility : Solubility : Soluble in water. : No data available : : : No data available : : : : : : : : | Vapor pressure | : < 1 mm Hg @ 20°C |
| Solubility : Soluble in water. .cg Pow : No data available : Solubre information : No data available : No data | Relative vapor density at 20 °C | : No data available |
| Log Pow :: No data available Log Kow :: No data available Viscosity, kinematic :: No data available Viscosity, dynamic :: No data available Szplosive properties :: No data available Didizing information :: No data available Stable :: No data available 10.1 Reactivity No additional information available :: No data available 10.2 Chemical stability Stable. :: No data available 10.3 Possibility of hazardous reactions No additional information available :: No data available 10.4 Conditions to avoid None known. :: No data available 10.5 Incompatible materials None known. :: No data available 10.6 Hazardous decomposition products Carbon dioxide. Silicon dioxide. Sodium hydroxide. SECTION 11: Toxicological information 11.1 Information on toxicological effects | Relative density | : 1.1 |
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| Viscosity, dynamic : No data available Explosive properties : No data available Didizing properties : No data available Explosive limits : No data available Explosive limits : No data available B2. Other information No additional information available EECTION 10: Stability and reactivity 10.1. Reactivity No additional information available 10.2. Chemical stability Stable. 10.3. Possibility of hazardous reactions No additional information available 10.4. Conditions to avoid None known. 10.5. Incompatible materials None known. 10.6. Hazardous decomposition products Carbon dioxide. Sodium hydroxide. EECTION 11: Toxicological information 11.1. Information on toxicological effects | Log Kow | : No data available |
| Explosive properties : No data available Dxidizing properties : No data available Explosive limits : No data available Explosive limits : No data available 0.2. Other information No additional information available SECTION 10: Stability and reactivity 10.1. Reactivity No additional information available 10.2. Chemical stability Stable. 10.3. Possibility of hazardous reactions No additional information available 10.4. Conditions to avoid None known. 10.5. Incompatible materials None known. 10.6. Hazardous decomposition products Carbon dioxide. Silicon dioxide. Sodium hydroxide. SECTION 11: Toxicological information 11.1. Information on toxicological effects | Viscosity, kinematic | : No data available |
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| No additional information available SECTION 10: Stability and reactivity No additional information available 10.1. Reactivity No additional information available 10.2. Chemical stability Stable. 10.3. Possibility of hazardous reactions No additional information available 10.4. Conditions to avoid None known. 10.5. Incompatible materials None known. 10.6. Hazardous decomposition products Carbon dioxide. Sodium hydroxide. SECTION 11: Toxicological information 11.1. Information on toxicological effects | Explosive limits | : No data available |
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| No additional information available 10.2. Chemical stability Stable. Interface 10.3. Possibility of hazardous reactions No additional information available Interface 10.4. Conditions to avoid None known. Interface 10.5. Incompatible materials None known. Interface 10.6. Hazardous decomposition products Carbon dioxide. Silicon dioxide. Sodium hydroxide. Interface SECTION 11: Toxicological information Information on toxicological effects | | |
| 10.2. Chemical stability Stable. | - | |
| Stable. 10.3. Possibility of hazardous reactions No additional information available 10.4. Conditions to avoid None known. 10.5. Incompatible materials None known. 10.6. Hazardous decomposition products Carbon dioxide. Soliton dioxide. SECTION 11: Toxicological information 11.1. Information on toxicological effects | | |
| 10.3. Possibility of hazardous reactions No additional information available 10.4. Conditions to avoid 10.4. Conditions to avoid None known. 10.5. Incompatible materials None known. 10.6. Hazardous decomposition products Carbon dioxide. Silicon dioxide. Sodium hydroxide. SECTION 11: Toxicological information 11.1. Information on toxicological effects | | |
| No additional information available 10.4. Conditions to avoid None known. Incompatible materials None known. Incompatible materials None known. Incompatible materials None known. Incompatible materials Incompatible materials Incompatible materials None known. Incompatible materials Incompatible materials Incompatible materials Section dioxide. Silicon dioxide. Sodium hydroxide. Information on toxicological information Information on toxicological effects Information on toxicological effects | | |
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| None known. 10.5. Incompatible materials None known. 10.6. Hazardous decomposition products Carbon dioxide. Silicon dioxide. Sodium hydroxide. SECTION 11: Toxicological information 11.1. Information on toxicological effects | | |
| 10.5. Incompatible materials None known. Incomposition products 10.6. Hazardous decomposition products Carbon dioxide. Silicon dioxide. Sodium hydroxide. SECTION 11: Toxicological information 11.1. Information on toxicological effects | | |
| None known. 10.6. Hazardous decomposition products Carbon dioxide. Silicon dioxide. Sodium hydroxide. SECTION 11: Toxicological information 11.1. Information on toxicological effects | None known. | |
| 10.6. Hazardous decomposition products Carbon dioxide. Silicon dioxide. Sodium hydroxide. SECTION 11: Toxicological information 11.1. Information on toxicological effects | 10.5. Incompatible materials | |
| Carbon dioxide. Silicon dioxide. Sodium hydroxide. SECTION 11: Toxicological information 11.1. Information on toxicological effects | None known. | |
| Carbon dioxide. Silicon dioxide. Sodium hydroxide. SECTION 11: Toxicological information 11.1. Information on toxicological effects | 10.6. Hazardous decomposition product | ts |
| SECTION 11: Toxicological information 11.1. Information on toxicological effects | | |
| 11.1. Information on toxicological effects | | |
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Safety Data Sheet

| Water (7732-18-5) | |
|--|--|
| LD50 oral rat | > 90 ml/kg |
| Skin corrosion/irritation | : Not classified |
| Serious eye damage/irritation | : Not classified |
| Respiratory or skin sensitization | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified |
| Specific target organ toxicity (single exposure) | : Not classified |
| Specific target organ toxicity (repeated exposure) | : Not classified |
| Aspiration hazard | : Not classified |
| Symptoms/injuries after inhalation | : May cause irritation to the respiratory tract. Overexposure may cause: Coughing. Headache. Nausea. |
| Symptoms/injuries after skin contact | : May cause skin irritation. |
| Symptoms/injuries after eye contact | : May cause eye irritation. |
| Symptoms/injuries after ingestion | : May be harmful if swallowed. |

| SECTION 12: Ecological Informat | ion |
|--|---|
| 12.1. Toxicity | |
| No additional information available | |
| 12.2. Persistence and degradability | |
| No additional information available | |
| 12.3. Bioaccumulative potential | |
| No additional information available | |
| 12.4. Mobility in soil | |
| No additional information available | |
| 12.5. Other adverse effects | |
| Effect on ozone layer | : No additional information available |
| Effect on the global warming | : No known ecological damage caused by this product. |
| SECTION 13: Disposal considerat | ions |
| 13.1. Waste treatment methods | |
| Waste disposal recommendations | : Landfill. Dispose in a safe manner in accordance with local/national regulations. |
| Ecology - waste materials | : Avoid release to the environment. |
| SECTION 14: Transport information | on |
| 14.1. UN number | |
| Not regulated for transport. | |
| 14.2. UN proper shipping name | |
| Not applicable | |
| 14.3. Additional information | |
| Other information | : No supplementary information available. |
| Transport by sea | |
| No additional information available | |
| | |

Air transport

No additional information available

| SECTION 15: Regulatory information |
|---|
| 15.1. US Federal regulations |
| Water (7732-18-5) |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |
| Aminopropylsilsesquioxane-methylsilsequioxane copolymer oligomer (1411854-75-5) |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |

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15.2. International regulations

Water (7732-18-5)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on the Canadian DSL (Domestic Sustances List)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Aminopropylsilsesquioxane-methylsilsequioxane copolymer oligomer (1411854-75-5)

15.3. US State regulations

AMINOPROPYLSILSESQUIOXANE-METHYLSILSEQUIOXANE IN AQUEOUS SOLUTION(1411854-75-5) U.S. - California - Proposition 65 - Carcinogens List No U.S. - California - Proposition 65 - Developmental Toxicity No U.S. - California - Proposition 65 - Reproductive Toxicity - Female No U.S. - California - Proposition 65 - Reproductive Toxicity - Female No

| Water (7732-18-5) | | | | |
|--|--|---|---|--------------------------------------|
| U.S California - Proposition 65 - Carcinogens List | U.S California - Proposition 65 - Developmental Toxicity | U.S California - Proposition 65 - Reproductive Toxicity - Female | U.S California - Proposition 65 - Reproductive Toxicity - Male | No significance risk level (NSRL) |
| No | No | No | No | |
| Aminopropylsilsesquio | xane-methylsilsequioxane cop | oolymer oligomer (1411854-7 | 5-5) | |
| U.S California - Proposition 65 - Carcinogens List | U.S California - Proposition 65 - Developmental Toxicity | U.S California - Proposition 65 - Reproductive Toxicity - Female | U.S California - Proposition 65 - Reproductive Toxicity - Male | No significance risk level (NSRL) |
| No | No | No | No | |

SECTION 16: Other information

HMIS III Rating

Health Flammability Physical

- : 1 Slight Hazard Irritation or minor reversible injury possible
- : 0 Minimal Hazard
- : 0 Minimal Hazard

Date of issue: 11/17/2014 Version: 1.0

SDS US (GHS HazCom 2012) - Custom

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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