

12/07/2015

N-(TRIMETHOXYSILYLPROPYL)ISOTHIOURONIUM CHLORIDE, 50% in water

Safety Data Sheet SIT8405.0 Date of issue: 12/07/2015 Version: 1.0

| SECTION 1: Identification of the s | ubstance/mixture and of the company/undertaking | | |
|--|---|--|--|
| 1.1. Product identifier | | | |
| Product form | : Mixture | | |
| Physical state | : Liquid | | |
| Product name | : N-(TRIMETHOXYSILYLPROPYL)ISOTHIOURONIUM CHLORIDE, 50% in water | | |
| Product name Product code | | | |
| Formula | : SIT8405.0 : C7H19CIN2O3SSi | | |
| | | | |
| Synonyms | : TRIHYDROXYPROPYLCARBAMIDOTHIOIC ACID, HYDROCHLORIDE; 2-[3- (TRIHYDROXYSILYL)PROPYL]ISOTHIOURONIUM CHLORIDE | | |
| Chemical family | : SILICATE SOLUTION | | |
| 1.2. Relevant identified uses of the su | ubstance or mixture and uses advised against | | |
| Use of the substance/mixture | : Chemical intermediate For research use only | | |
| 1.3. Details of the supplier of the safe | ety data sheet | | |
| GELEST, INC. 11 East Steel Road Morrisville, PA 19067 USA T 215-547-1015 - F 215-547-2484 - (M-F): 8:0 info@gelest.com - www.gelest.com | 00 AM - 5:30 PM EST | | |
| 1.4. Emergency telephone number | | | |
| Emergency number | : CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International) | | |
| SECTION 2: Hazards identification 2.1. Classification of the substance of | | | |
| GHS-US classification | | | |
| Skin Irrit. 2 H315 Eye Irrit. 2A H319 Full text of H-phrases: see section 16 | | | |
| 2.2. Label elements | | | |
| GHS-US labeling | | | |
| Hazard pictograms (GHS-US) | : GHS07 | | |
| Signal word (GHS-US) | | | |
| J | : Warning | | |
| Hazard statements (GHS-US) | : Warning : H315 - Causes skin irritation H319 - Causes serious eye irritation | | |
| o () | : H315 - Causes skin irritation | | |
| Hazard statements (GHS-US) | H315 - Causes skin irritation H319 - Causes serious eye irritation P280 - Wear protective gloves/protective clothing/eye protection/face protection P264 - Wash hands thoroughly after handling P302+P352 - If on skin: Wash with plenty of soap and water P332+P313 - If skin irritation occurs: Get medical advice/attention 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 P321 - Specific treatment (see first aid instructions on this label) | | |
| Hazard statements (GHS-US) Precautionary statements (GHS-US) | H315 - Causes skin irritation H319 - Causes serious eye irritation P280 - Wear protective gloves/protective clothing/eye protection/face protection P264 - Wash hands thoroughly after handling P302+P352 - If on skin: Wash with plenty of soap and water P332+P313 - If skin irritation occurs: Get medical advice/attention 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 P321 - Specific treatment (see first aid instructions on this label) | | |
| Hazard statements (GHS-US) Precautionary statements (GHS-US) 2.3. Other hazards | H315 - Causes skin irritation H319 - Causes serious eye irritation P280 - Wear protective gloves/protective clothing/eye protection/face protection P264 - Wash hands thoroughly after handling P302+P352 - If on skin: Wash with plenty of soap and water P332+P313 - If skin irritation occurs: Get medical advice/attention 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 P321 - Specific treatment (see first aid instructions on this label) P362+P364 - Take off contaminated clothing and wash it before reuse | | |
| Hazard statements (GHS-US) Precautionary statements (GHS-US) 2.3. Other hazards No additional information available | H315 - Causes skin irritation H319 - Causes serious eye irritation P280 - Wear protective gloves/protective clothing/eye protection/face protection P264 - Wash hands thoroughly after handling P302+P352 - If on skin: Wash with plenty of soap and water P332+P313 - If skin irritation occurs: Get medical advice/attention 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 P321 - Specific treatment (see first aid instructions on this label) P362+P364 - Take off contaminated clothing and wash it before reuse | | |
| Hazard statements (GHS-US) Precautionary statements (GHS-US) 2.3. Other hazards No additional information available 2.4. Unknown acute toxicity (GHS US | H315 - Causes skin irritation H319 - Causes serious eye irritation P280 - Wear protective gloves/protective clothing/eye protection/face protection P264 - Wash hands thoroughly after handling P302+P352 - If on skin: Wash with plenty of soap and water P332+P313 - If skin irritation occurs: Get medical advice/attention 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 P305+P351 - Specific treatment (see first aid instructions on this label) P362+P364 - Take off contaminated clothing and wash it before reuse | | |
| Hazard statements (GHS-US) Precautionary statements (GHS-US) 2.3. Other hazards No additional information available 2.4. Unknown acute toxicity (GHS US No data available | H315 - Causes skin irritation H319 - Causes serious eye irritation P280 - Wear protective gloves/protective clothing/eye protection/face protection P264 - Wash hands thoroughly after handling P302+P352 - If on skin: Wash with plenty of soap and water P332+P313 - If skin irritation occurs: Get medical advice/attention 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 P305+P351 - Specific treatment (see first aid instructions on this label) P362+P364 - Take off contaminated clothing and wash it before reuse | | |

EN (English US)

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| Name | | Product identifier | % | GHS-US classification |
|---|-----------------|---|-----------------------|-----------------------------------|
| Water | | (CAS No) 7732-18-5 | 76 > 50 | Not classified |
| 2-[3-(Trihydroxysilyl)propyl]isothiouronium chlorid | de | (CAS No) 84682-36-0 | < 50 | Skin Irrit. 2, H315 |
| | | | | Eye Irrit. 2A, H319 |
| SECTION 4: First aid measures | | | | |
| 4.1. Description of first aid measure | s | | | |
| First-aid measures general | : Rem | ove contaminated clothing and shoe | es. In case of accide | nt or if you feel unwell, seek |
| | | cal advice immediately (show the la | bel where possible) | . If possible show this sheet; if |
| First-aid measures after inhalation | | able show packaging or label. ove victim to fresh air and keep at re | ast in a position com | fortable for broathing. If you fo |
| | | II, seek medical advice. | est in a position con | ilonable for breathing. If you le |
| First-aid measures after skin contact | : Was | with plenty of soap and water. Get | medical advice/atte | ention. |
| First-aid measures after eye contact | : Imme | ediately flush eyes thoroughly with w | vater for at least 15 | minutes. Remove contact lense |
| | prese | ent and easy to do. Continue rinsing | . Get medical advice | e/attention. |
| First-aid measures after ingestion | : Neve | r give anything by mouth to an unco | onscious person. Ge | et medical advice/attention. |
| 4.2. Most important symptoms and e | effects, both | acute and delayed | | |
| 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 me | dical attentio | n and special treatment needed | | |
| No additional information available | | | | |
| SECTION 5: Firefighting measure | S | | | |
| 5.1. Extinguishing media | | | | |
| Suitable extinguishing media | : Not o | ombustible. | | |
| Unsuitable extinguishing media | : None | known. | | |
| 5.2. Special hazards arising from the | e substance | or mixture | | |
| Fire hazard | | known. | | |
| Explosion hazard | : None | known. | | |
| 5.3. Advice for firefighters | | | | |
| Firefighting instructions | · Exer | cise caution when fighting any chem | nical fire | |
| Protection during firefighting | | ot enter fire area without proper prot | | ocluding respiratory protection. |
| | | all eye and skin contact and do no | | 0 1 71 |
| SECTION 6: Accidental release m | neasures | | | |
| 6.1. Personal precautions, protective | e equipment | and emergency procedures | | |
| 6.1.1. For non-emergency personnel | | | | |
| Protective equipment | : Wea | protective equipment as described | in Section 8. | |
| Emergency procedures | : Evac | uate unnecessary personnel. | | |
| 6.1.2. For emergency responders | | | | |
| Protective equipment | · Do n | ot attempt to take action without suit | table protective equ | inment Equip cleanup crew wit |
| | | er protection. For further information | | |
| | prote | ction". | | |
| 6.2. Environmental precautions | | | | |
| Prevent entry to sewers and public waters. N | Notify authorit | ies if liquid enters sewers or public v | waters. | |
| 6.3. Methods and material for contai | nment and o | leaning up | | |
| For containment | | ain any spills with dikes or absorber | nts to prevent migrat | tion and entry into sewers or |
| | strea | | | , |
| Methods for cleaning up | | n up any spills as soon as possible, | | material to collect it. Sweep or |
| | shov | el spills into appropriate container fo | or 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. Use only in well ventilate areas. | | |
| jiene measures : Wash contaminated clothing before reuse. Wash hands and other exposed areas wit soap and water before eating, drinking or smoking and when leaving work. | | | |
| 7.2. Conditions for safe storage, inclu | ding any incompatibilities | | |
| Storage conditions | : Keep container tightly closed. | | |
| ncompatible materials | : None known. | | |
| Storage area | : Store in a well-ventilated place. | | |
| 7.3. Specific end use(s) | | | |
| No additional information available | | | |
| SECTION 8: Exposure controls/pe | rsonal protection | | |
| 3.1. Control parameters | | | |
| No additional information available | | | |
| | | | |
| 3.2. Exposure controls | · Drovide legal exhaust or general room ventilation | | |
| 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. | | |
| Eye protection | : Chemical goggles or face shield. Contact lenses should not be worn. | | |
| Skin and body protection | : Wear suitable protective clothing. | | |
| Respiratory protection | Where exposure through inhalation may occur from use, respiratory protection equipment is | | |
| | recommended. NIOSH-certified dust and mist (teal cartridge) respirator. | | |
| SECTION 9: Physical and chemica | l properties | | |
| 9.1. Information on basic physical and | | | |
| Physical state | : Liquid | | |
| Appearance | : Clear solution. | | |
| Molecular mass | : 274.84 g/mol | | |
| Color | : No data available | | |
| Ddor | : No data available | | |
| Ddor threshold | : No data available | | |
| Refractive index | : 1.441 | | |
| bH | : 6 | | |
| Relative evaporation rate (butyl acetate=1) | : No data available | | |
| Velting point | $: < 0 ^{\circ}\text{C}$ | | |
| Freezing point | : No data available | | |
| Boiling point | : 100 °C - initial (water) | | |
| Flash point | : none | | |
| • | . No data available | | |
| Auto-ignition temperature | | | |
| Decomposition temperature | : No data available | | |
| Flammability (solid, gas) | : No data available | | |
| /apor pressure | : < 1 mm Hg @ 20°C | | |
| Relative vapor density at 20 °C | : No data available | | |
| Relative density | : 1.19 | | |
| Solubility | : Soluble in water. | | |
| _og Pow | : No data available | | |
| - 5 | : No data available | | |
| | | | |
| Log Kow Viscosity, kinematic | : No data available | | |
| Log Kow | No data available No data available | | |
| Log Kow /iscosity, kinematic | | | |
| Log Kow /iscosity, kinematic /iscosity, dynamic | : No data available | | |

| 9.2. 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. Hydrogen chloride. Silicon dioxid | |
| SECTION 11: Toxicological informat | |
| 11.1. Information on toxicological effects | |
| Acute toxicity | : Not classified |
| - | |
| Water (7732-18-5) | |
| Skin corrosion/irritation | > 90 ml/kg : Causes skin irritation. |
| Skin conosion/initiation | pH: 6 |
| Serious eye damage/irritation | : Causes serious eye irritation. |
| | pH: 6 |
| 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 skin contact | : May cause skin irritation. |
| Symptoms/injuries after eye contact | : May cause eye irritation. |
| Symptoms/injuries after ingestion | : May be harmful if swallowed. |
| Reason for classification | : Expert judgment |
| SECTION 12: Ecological information | |
| 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. |
| | |

| Water (7732-18-5) U.S California - U.S California - U.S California - | SECTION 13: Disposa | l considerations | | | | |
|--|---|--|-------|----------------------------------|------------------|-------------|
| Savage disposal recommendations : Do not dispose of waste into saver. Waste disposal recommendations : Londill. Dispose in a safe manner in accordance with local/national regulations. Ecology waste material : Avoid telease to the environment. SECTION 14: Transport information T4.1. UN number Not regulated for transport. 14.2. UN proper shipping name Not applicable 14.3. Additional information Chronomation : No supplementary information available. Transport by sea No additional information available Art transport Not additional information available SECTION 15: Regulatory information SECTION 15: Regulatory information S | | | | | | |
| Wate disposal recommendations : Andril Dispose in a safe manner in accordance with local/hational regulations. Ecology - waste materials : Avoid release to the environment. SECTION 14: Transport information | | | not | dispose of waste into sewer | | |
| Ecology waste materials : Avoid release to the environment. SECTION 14: Transport Information 14.1. UN number Not regulated for transport. 14.2. UN proper shipping name Not applicable 14.3. Additional information Other information Other information Other information Charlen Information | e 1 | | | | | egulations |
| Variable Control 14: 1 Transport Information 14.1 UN number 14.1 UN number 14.2 UN propri shipping name Not regulated for transport. 14.3. Additional information Other information Other information Charlen Informatin Charlen Information Charlen Information Charlen Inform | • | | | | | ogulationo. |
| 141. UN number Not regulated for transport. 142. UN propri shipping name Not applicable 143. Additional information Other information ICIA: Section information No additional information available Air transport No additional information available SECTION 15: Regulatory information SECTION 15: Regulatory information TSCA Exemption/Exclusion MARTIMETENDEXVISIV/EROPYLISOTHIOURONUM CHLORIDE, 50% in water TSCA Exemption/Exclusion RAUTION: This material is supplied for research and development upposes subject to the Resemption, including supervision by a "technically qualified individual" as defined by 40 CFR 720.3(c). The used of this material for commercial purposes" as defined by 40 CFR 720.3(c). The used of this material for commercial purposes" as defined by 40 CFR 720.3(c). The used of this material for commercial purposes" as defined by 40 CFR 720.3(c). The used of this material for commercial purposes" as defined by 40 CFR 720.3(c). The used of this material for commercial purposes" as defined by 40 CFR 720.3(c). The used of this material for commercial purposes" as defined by 40 CFR 720.3(c). This material purposes" as defined by 40 CFR 720.3(c). The used of this material for commercial purposes" as defined by 40 CFR 720.3(c). The used of this material for commercial purposes" as defined by 40 CFR 720.3(c). The used of this material for commercial purposes" as defined by 40 CFR 720.3(c). The used of the used for the commercial purposes the commercial purposes. Subject not the Re | | rt information | | | | |
| Not regulated for transport. 14.2. UN proper shipping name 14.3. Additional information 20ther information available 20ther information 20th | | ort information | | | | |
| 14.2. UN proper shipping name Not applicable 41.3. Additional information Other information : No supplementary information available. Transport by sea No additional information available SECTION 15: Regulatory information SECTION 15: Regulatory information Status SECTION 15: Regulatory information SECTION 15: Regulatory information CAUTION: This material is supplied for research and development purposes subject to the RAD seamption under TSCA, 40 CFR 720.36, and must meet the requirements of the seamption.including supervision by a Technically qualified individual as defined by 40 CFR 720.3(r); is not permitted in the United States Water (772-18-5) Listed on the United States TSCA (Toxic Substances Control Act) inventory 2:1/rhydroxysily/propyljsothiouronium chloride (94682-36-0) Not listed on the United States TSCA (Toxic Substances Control Act) inventory 2:2. International regulations Water (7732-18-5) Listed on the United States TSCA (Toxic Substances Control Act) inventory 2:1. International regulations Water (7732-18-5) Listed on the United States TSCA (Toxic Substances Control Act) inventory 2:1. International regulations Water (7732-18-5) Listed on the CSC (I | | | | | | |
| Not applicable 14.3. Additional information 14.3. Additional information 15.3. Additional information 15.4.3. Additional information 15.4.3. Additional information available Transport No additional information available SECTION 15. Regulatory information 15.1. USF deforal regulations MITEMETHOXYSIL/UPROPYL/SOTHOURONUM CHLORIDE, 50% in water TSCA Exemption/Exclusion CALTION: Time material is supplied for research and development purposes subject to the R2D exemption under TSCA, 40 CFR 720.36, and must meet the requirements of the exemption, including supervision by a 'technically qualified individual' as defined by 40 CFR 720.3(n). The second in the United States TSCA (Toxic Substances Control Act) inventory 247(Trihydroxysilyl/propyl)giosthiouronium chloride (84682-36-0) Not listed on the United States TSCA (Toxic Substances Control Act) inventory 247(Trihydroxysilyl/propyl)giosthiouronium chloride (84682-36-0) Not listed on the United States TSCA (Toxic Substances Control Act) inventory 15.2. International regulations Water (7732-16-5) Listed on the United States TSCA (Toxic Substances) Listed | | ng name | | | | |
| 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 151. US Federal regulations MyCRINETHOXXSILVLPROPYLJSOTHIOURONUM CHLORIDE, 50% in water TSCA Exemption/Exclusion CAUTION: This material is supplied for research and development purposes subject to the exemption. including supervision by a 'technically qualified individual' as defined by 40 CFR 720.3(e). Vater (7732-18-5) Listed on the United States TSCA (Toxic Substances Control Act) inventory 21-3. (Trihydroxysily/propyljosthiouronium chloride (44682-36-0) Not listed on the United States TSCA (Toxic Substances Control Act) inventory 21-3. (Trihydroxysily/propyljosthiouronium chloride (44682-36-0) Not listed on the Caradian DSL (Domesic Substances) Listed on the Caradian DSL (Domesic Substances) Listed on the CBC (wentory of Existing Chemical Substances) Listed on the CBC (wentory of Chemical Substances) Listed on the CBC (wentory of Existing Chemical Substances) Listed on the CBC (wentory of Chemical Substances) Listed on INSQ (Mexican national Inventory of Chemical Substances) < | | ig name | | | | |
| Other information : No supplementary information available. Transport by sea No additional information available Air transport IN No additional information available SECTION 15: Regulatory information S10. US Federal regulations MIRETHOXYSIL VLPROPYLISOTHIOURONUL (URDE, 50% in water TSCA Exemption/Exclusion CAUTION: This material is reported for research and development purposes subject to the Rap exemption including supervision by a 'technical' qualified individual's acterined by OCFR 720.3(sei). The use of this material for 'commercial purposes' as defined by 40 CFR 720.3(s) is not permitted in the United States. Water (7722-18-5) Isted on the United States TSCA (Toxic Substances Control Act) inventory 15.2. Interational regulations States TSCA (Toxic Substances Control Act) inventory 15.2. Interational regulations States Water (7732-18-5) Substances Control Act) inventory 15.2. Interational regulations Substances Produced or Imported in China) Usted on the United States TSCA (Toxic Substances I) Substances) Usted on the CRS (Mustation Inventory of Chemical Substances) Substances) Usted on the EC (Inventory ENCES (European Inventory of Existing Chemical Substances) Substances) Usted on the EC (Inventory ENCES (European Inventory of Existing Chemical Substances) Substances) Usted on t | | | | | | |
| Transport by sea No additional information available Air transport No additional information available SECTION 15: Regulatory information (51. US Federal regulations No fill of the end o | | | cun | plomontary information availab | lo | |
| No additional information available Air transport No additional information available SECTION 15: Regulatory information SECTION 15: Regulatory information CAUTION: This material is supplied for research and development purposes subject to the R&D exemption under TSCA, 40 CFR 720.36, and must meet the requirements of the exemption, including aupervision by a "technically qualified individual" as defined by 40 CFR 720.3(e). The use of this material for commercial purposes: as defined by 40 CFR 720.3(e). The use of this material for commercial purposes: as defined by 40 CFR 720.3(e). The use of this material for commercial purposes: as defined by 40 CFR 720.3(e). The use of this material for commercial purposes: as defined by 40 CFR 720.3(e). The use of this material for commercial purposes: as defined by 40 CFR 720.3(e). The use of this material for commercial purposes: as defined by 40 CFR 720.3(e). The use of this material for commercial purposes: as defined by 40 CFR 720.3(e). The use of this material for commercial purposes: as defined by 40 CFR 720.3(e). The use of this material for commercial purposes: as defined by 40 CFR 720.3(e). The use of this material for commercial purposes: as defined by 40 CFR 720.3(e). The use of this material for commercial purpose: as defined by 40 CFR 720.3(e). The use of this material for commercial purpose: as defined by 40 CFR 720.3(e). The use of this material for commercial purpose: as defined by 40 CFR 720.3(e). The use of this material for commercial purpose: as defined by 40 CFR 720.3(e). The use of this material for commercial purpose: as defined by 40 CFR 720.3(e). The use of this material for commercial Substances) Listed on the CS (Australian Inventory of Chemical Substances) Listed on the CSC (Inventory of Chemical Substances) Listed on the CSC (Inventory of Chemical Substances) Listed on the CSC (Inventory EINECS (European Inventory of Existing Commercial Chemical Substances) Listed on the CSC (Inventory EINECS (European Inventory of Existing Commercial Chemical | | . 110 | sup | plementary information availab | ne. | |
| No additional information available Air transport No additional information available SECTION 15: Regulatory information SECTION 15: Regulatory information CAUTION: This material is supplied for research and development purposes subject to the R&D exemption under TSCA, 40 CFR 720.36, and must meet the requirements of the exemption, including aupervision by a "technically qualified individual" as defined by 40 CFR 720.3(e). The use of this material for commercial purposes: as defined by 40 CFR 720.3(e). The use of this material for commercial purposes: as defined by 40 CFR 720.3(e). The use of this material for commercial purposes: as defined by 40 CFR 720.3(e). The use of this material for commercial purposes: as defined by 40 CFR 720.3(e). The use of this material for commercial purposes: as defined by 40 CFR 720.3(e). The use of this material for commercial purposes: as defined by 40 CFR 720.3(e). The use of this material for commercial purposes: as defined by 40 CFR 720.3(e). The use of this material for commercial purposes: as defined by 40 CFR 720.3(e). The use of this material for commercial purposes: as defined by 40 CFR 720.3(e). The use of this material for commercial purposes: as defined by 40 CFR 720.3(e). The use of this material for commercial purpose: as defined by 40 CFR 720.3(e). The use of this material for commercial purpose: as defined by 40 CFR 720.3(e). The use of this material for commercial purpose: as defined by 40 CFR 720.3(e). The use of this material for commercial purpose: as defined by 40 CFR 720.3(e). The use of this material for commercial purpose: as defined by 40 CFR 720.3(e). The use of this material for commercial Substances) Listed on the CS (Australian Inventory of Chemical Substances) Listed on the CSC (Inventory of Chemical Substances) Listed on the CSC (Inventory of Chemical Substances) Listed on the CSC (Inventory EINECS (European Inventory of Existing Commercial Chemical Substances) Listed on the CSC (Inventory EINECS (European Inventory of Existing Commercial Chemical | | | | | | |
| Ar transport No additional information available SECTION 15: Regulatory information 15.1. US Federal regulations MCRIMETHOXYSIL/LPROPYLJSOTHIOURONIUM CHLORIDE, 50% in water TSCA Exemption/Exclusion CAUTION: This material is supplied for research and development purposes subject to the R3D exemption under TSCA, 40 CFR 720.36, and must meet the requirements of the exemption, including supervision by a "technically qualified individual" as defined by 40 CFR 720.3(e), is not permitted in the United States. TSCA (Toxic Substainces Control Act) inventory 2:3-(Trihydroxysilyl)propyl]isothiouronium chloride (84682-36-0) Not listed on the United States TSCA (Toxic Substainces Control Act) inventory 2:3-(Trihydroxysilyl)propyl]isothiouronium chloride (84682-36-0) Not listed on the United States TSCA (Toxic Substainces Control Act) inventory 5:2. International regulations Water (7732-18-5) Listed on the United States TSCA (Toxic Substainces Control Act) inventory 5:2. International regulations Water (C732-18-5) Listed on the Conted States TSCA (Toxic Substainces Control Act) inventory 1:3: do on the CSC (Inventory of Chemical Substainces) Listed on the Conted States TSCA (Toxic Substainces List) Listed on the Conted States TSCA (Toxic Substainces Produced or Imported in China) Listed on the Conted Inventory of Chemical Substainces) Listed on the Contex Contex Inventory of Chemical Substainces) Listed on the Contex Contex Inventory of Chemical Substainces) Listed on the Contex (PLINECS (European Inventory of Existing Commercial Chemical Substainces) Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substainces) Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substainces) Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substainces) Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substainces) Listed on the EEC inventory EINECS (European Invent | | labla | | | | |
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| U.S California - Proposition 65 - Reproductive No Toxicity - Female No U.S California - Proposition 65 - Reproductive No Toxicity - Male No Water (7732-18-5) U.S California - U.S California - Non-significant risk level | | | | | | |
| Toxicity - Female U.S California - Proposition 65 - Reproductive No Toxicity - Male No Water (7732-18-5) U.S California - U.S California - Non-significant risk level | Toxicity | | | | | |
| Toxicity - Male Water (7732-18-5) U.S California - U.S California - Non-significant risk level | | | | | | |
| U.S California - U.S California - U.S California - U.S California - Non-significant risk level | U.S California - Proposition Toxicity - Male | 1 65 - Reproductive | N | 0 | | |
| U.S California - U.S California - U.S California - U.S California - Non-significant risk level | Water (7732-18-5) | | _ | | | |
| Uroposition Fr. L. Uroposition FF. L. Uroposition FF. L. Discretificat CF. L. MODIA | U.S California - | | | | | |
| | Proposition 65 - Carcinogens List | Proposition 65 - Developmental Toxicity | | | | (NSRL) |

Safety Data Sheet

| Water (7732-18-5) | | | | |
|---|--|---|---|--------------------------------------|
| No | No | No | No | |
| 2-[3-(Trihydroxysilyl)propyl]isothiouronium chloride (84682-36-0) | | | | |
| 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 | Non-significant risk level (NSRL) |
| No | No | No | No | |

| SECTION 16: Other i | | | |
|---|---|--|--|
| Abbreviations and acronym | Concentra millimeter threshold Health; IA Program; Registratio | ation; ATE: Aci s Hg, torr; PEL limit value; TG RC: Internatio HMIS: Hazard on Number; EG Commission I | Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal ute Toxicity Estimates; H: hour; °: °C unless otherwise stated; mm: .: permissible exposure level; TWA: time weighted average; TLV: :: Test Guideline; NIOSH: National Institute for Occupational Safety and nal Agency for Research on Cancer; NTP: National Toxicology ous Material Information System; CAS No.: Chemcial Abstract Service C No.: European Commission Registration Number; EC Index No.: ndex Number; OECD: The Organisation for Economic Co-operation |
| Full text of H-phrases:: | | | |
| Eye Irrit. 2A | | | Serious eye damage/eye irritation Category 2A |
| Skin Irrit. 2 | | | Skin corrosion/irritation Category 2 |
| H315 | | | Causes skin irritation |
| H319 | | | Causes serious eye irritation |
| HMIS III Rating Health Flammability Physical | : 2 Moderat : 0 Minimal : 0 Minimal | Hazard | mporary or minor injury may occur |
| Prepared by safety and env | vironmental affairs. | | |
| Date of issue: 12/07/2015 | Version: 1.0 | | |
| SDS US (GHS HazCom 2012) | - Custom | | |
| | Vol. 77, No. 58 / Monday, March 26, 20 | | |

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