



Factor II Inc. encourages the end user to read this document entirely and understand all sections of this SDS sheet prior to use. There is important information regarding this product. The end user is expected to follow all precautions outlined in this SDS.

SECTION 1: IDENTIFICATION

PRODUCT IDENTIFIER

Product Name : Silicone Elastomer

Product Code : A-101 Part A

Intended Use(s) : For professional use only

CONTACT INFORMATION FOR SUPPLIER OF SAFETY DATA SHEET

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SECTION 2: HAZARD(S) IDENTIFICATION

2.1 Classification of the substance or mixture

GHS-US classification

Repr.2 H361

Aquatic Chronic 3 H412

Full text of hazard classes and H-statements: see section 16

2.2 Label elements

GHS-US labeling

Hazard Pictograms (GHS-US)



GHS08



Signal Word (GHS-US)
Hazard Statements (GHS-US)

Hazard Statements (GHS-US)

Precautionary Statements (GHS-US)

Warning
H361 – Suspected of damaging fertility of the unborn child
H412 – Harmful to aquatic life with long-lasting effects
P201 – Obtain special instructions before use.
P202 – Do not handle until all safety precautions have been read and understood.
P273 – Avoid release to the environment.
P280 – Wear protective gloves, protective clothing, and eye protection.
P308=P313 – If exposed or concerned: Get medical/advice/attention.
P405 – Store locked up.
P501 – Dispose of contents/container in accordance with local regional, national, and international regulations.

2.3 Other hazards

Other hazards not contributing to the classification

Exposure may aggravate those pre-existing eye, skin, or respiratory conditions.

2.4 Unknown acute toxicity {GHS US}

No data available

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substance

Not applicable

3.2 Mixture

Name	Product Identifier	%	Classification (GHS-US)
Silica, amorphous, diatomaceous earth*	(CAS No.) 68855-54-9	25-30	STOT RE 1, H372
Octamethylcyclotetrasiloxane	(CAS No) 556-67-2	<0.25	Flam. Liq. 3, H226 Repr.2, H361 Aquatic Chronic 1, H410

* Silica, amorphous, diatomaceous earth causes damage to health by prolonged exposure through inhalation. When the respirable fraction in mixtures and substances is below 1%, no classification is required. Since this product is in liquid form, none of these components are able to become airborne and cannot be inhaled. Thus, the hazard usually associated with diatomaceous earth is no applicable to this product.

Full text of H-phrases: See Section 16

SECTION 4: FIRST-AID MEASURES

4.1 Description of first aid measures



First-aid measures general	Never give anything by mouth to an unconscious person. If unwell, seek medical advice (show the label if possible).
First-aid measures after inhalation	When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if difficulty breathing persists.
First-aid measures after skin Contact	Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists.
First-aid measures after eye Contact	Rise cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Obtain medical attention.
First-aid measures after ingestion	Do NOT induce vomiting. Rinse mouth. Obtain medical attention.
4.2 Most important symptoms and effects, both acute and delayed	
Symptoms/Injuries	Suspected of damaging fertility or the unborn child.
Symptoms/Injuries after inhalation	Prolonged exposure may cause irritation.
Symptoms/Injuries after skin contact	Prolonged exposure may cause skin irritation.
Symptoms/Injuries after eye contact	May cause irritation to eyes.
Symptoms/Injuries after ingestion	Ingestion may cause adverse effects.
Chronic Symptoms	Suspected of damaging fertility or the unborn child.

4.3 Indication of any immediate medical attention and special treatment needed
If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES
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5.1 Extinguishing Media

Suitable extinguishing media	:Water spray, dry chemical, foam, carbon dioxide.
Unsuitable extinguishing media	:Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2 Special hazards arising from the substance mixture

Fire hazard	Not considered flammable but may burn at high temperatures.
Explosion hazard	Product is not explosive.
Reactivity	Hazardous reactions will not occur under normal conditions.

5.3 Advice for firefighters

Precautionary measures fire	Exercise caution when fighting any chemical fire.
Firefighting instructions	Use water spray or fog for cooling exposed containers.
Protection during firefighting	Do not enter fire area without proper protective equipment, including respiratory protection.



SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment, and emergency procedures

General measures Do not get in eyes, on skin or on clothing. Do not breathe vapor, mist or spray.

6.1.1 For non-emergency personnel

Protective equipment Use appropriate personal protection equipment (PPE).
Emergency procedures Evacuate unnecessary personnel.

6.1.2 For emergency responders

Protective equipment Equip cleanup crew with proper protection.
Emergency procedures Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

6.2 Environmental precautions

Prevent entry to sewers and public waters.

6.3 Methods and material for containment and clean up

For containment Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
Methods for cleaning up Clean up spills immediately and dispose of waste safely. Transfer material to a suitable container for disposal. Contact competent authorities after the spill.

6.4 Reference to other sections

See Section 8: Exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Precautions for safe handling Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing. Do NOT breathe (vapor, mist, spray).
Hygiene measures Handle in accordance with good industrial hygiene and safety procedures.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures Comply with applicable regulations.
Storage Conditions Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.
Incompatible products Strong acids, Strong bases. Strong oxidizers.

7.3 Specific use

For professional use only.



SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisor agency including: ACGIH (TLV), or OSHA (PEL).

Cristobalite (14464-46-1)

USA OSHA	OSHA PEL (TWA) (mg/m ³)	0.025 mg/m ³
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Quartz (14808-60-7)

USA ACGIH	ACGIH TWA (mg/m ³)	0.025 mg/m ³ (respirable particulate matter)
USA ACGIH	ACGIH chemical category	A2-Suspected Human Carcinogen
USA OSHA	OSHA PEL (TWA) mg/m ³	50µg/m ³

Octamethylcyclotetrasiloxane (556-67-2)

USA AIHA	WEEL TWA	10ppm
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8.2 Exposure controls

Appropriate engineering controls

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal protective equipment

Protective goggles. Gloves. Protective clothing.



Materials for protective clothing

Chemically resistant materials and fabrics.

Hand protection

Wear protective goggles.

Eye protection

Chemical safety goggles.

Skin and body protection

Wear suitable protective clothing.

Respiratory protection

If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Other Information

When using, do not eat, drink or smoke.



SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Tan to Grey
Odor	Slight
Odor threshold	No data available
pH	No data available
Evaporation rate	No data available
Melting point	No data available
Freezing point	No data available
Boiling point	No data available
Flash point	> 275 °F (135 °C)
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Flammability (solid, gas)	Not applicable
Vapor pressure	No data available
Relative vapor density at 20 °C	No data available
Specific gravity	>1
Solubility	No data available
Partition coefficient: n-octanol/water	No data available
Viscosity	No data available

9.2 Other information

No additional information

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Hazardous reactions will not occur under normal conditions.

10.2 Chemical stability

Stable under recommended handling and storage conditions (see section 7).

10.3 Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4 Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Incompatible materials.

10.5 Incompatible materials

Strong acids, strong bases, strong oxidizers.

10.6 Hazardous decomposition products

Will decompose above 150°C (>300°F) releasing formaldehyde vapors. Formaldehyde is a potential carcinogen and can act as a potential skin and respiratory sensitizer. Formaldehyde can also cause respiratory and eye irritation.



SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity Not classified

Quartz (14808-60-7)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 5000 mg/kg

Octamethylcyclotetrasiloxane (556-67-2)

LD50 Oral Rat	>4800 mg/kg (No mortality)
LD50 Dermal Rat	>2375 mg/kg
LD50 Dermal Rabbit	>2.5ml/kg (No mortality)
LC50 Inhalation Rat	36 mg/l/4h

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 (This product is in a liquid form; The (CAS No) 14808-60-7 (Quartz) is not bioavailable nor able to become airborne and cannot be inhaled. Thus, the hazards usually associated with (CAS No) 14808-60-7 are not applicable to this product)

Quartz (14808-60-7)

IARC group	1
National Toxicology Program (NTP) Status	Known Human Carcinogens.
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.

Reproductive Toxicity	: Suspected of damaging fertility or the unborn child.
Specific Target Organ Toxicity (Single Exposure)	: Not classified
Specific Target Organ Toxicity (Repeated Exposure)	: Not classified
Aspiration Hazard	Not classified
Symptoms/Injuries After Inhalation	Prolonged exposure may cause irritation.
Symptoms/Injuries After Skin Contact	Prolonged exposure may cause skin irritation.
Symptoms/Injuries After Eye Contact	May cause slight irritation to eyes.
Symptoms/Injuries After Ingestion	Ingestion may cause adverse effects.
Chronic Symptoms	Suspected of damaging fertility or the unborn child.



SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Ecology – General Harmful to aquatic life with long-lasting effects.

Octamethylcyclotetrasiloxane (556-67-2)

LC50 Fish	>22µg/l
NOEC Chronic Fish	0.0044 mg/l

12.2 Persistence and Degradability

A-101 Part A

Persistence and Degradability	May cause long-term adverse effects in the environment.
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12.3 Bioaccumulative Potential

A-101 Part A

Bioaccumulative Potential	Not established.
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Octamethylcyclotetrasiloxane (556-67-2)

BCF Fish 1	12400
Partition coefficient n-octanol/water (Log Pow)	6.488 (at 25.1°C)

12.4 Mobility In Soil

No additional information available

12.5 Other Adverse Effects

Other Information Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste Disposal Recommendations Dispose of contents/container in accordance with local, regional, national, and international regulations.

Additional Information Container may remain hazardous when empty. Continue to observe all precautions.

Ecology – Waste Materials Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

14.1 In accordance with DOT Not regulated for transport

14.2 In Accordance with IMDG Not regulated for transport

14.3 In Accordance with IATA Not regulated for transport



SECTION 15: REGULATORY INFORMATION

15.1 U.S. Federal Regulations

All components in this mixture are listed on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, have been exempted, or are not disclosed due to CBI requirements or disclosure rules according to the relevant regulation.

A-101 Part A

SARA Section 311-312 Hazard Classes	Health hazard – Reproductive toxicity
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15.2 US State Regulations

Silica, crystalline (general form) (Not Applicable)

U.S. – California – Proposition 65 – Carcinogens List	WARNING: This product contains chemicals know to the State of California to cause cancer.
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Quartz (14808-60-7)

U.S. – Idaho – Non Carcinogenic Toxic Air Pollutants – Acceptable Ambient Concentrations U.S. – Idaho – Non-Carcinogenic Toxic Air Pollutants – Emmision Levels (Els) U.S. – Illinois – Toxic Air Contaminant Carcinogens U.S. – Illinois – Toxic Air Contaminants U.S. – Maine – Chemicals of High Concern RTK – U.S. – Massachusetts – Right To Know Lest U.S. – Michigan – Occupational Exposure Limits – TWAs U.S. – Minnesota – Chemicals of High Concern U.S. – Minnesota – Hazardous Substance List U.S. – Minnesota – Permissible Exposure Limits – TWAs U.S. – New Hampshire – Regulated Toxic Air Pollutants – Ambient Air Levels (AALs) – 24-Hour U.S. – New Hampshire – Regulated Toxic Air Pollutants – Ambient Air Levels (AALs) – Annual RTK – U.S. – New Jersey – Right to Know Hazardous Substance List U.S. – New Jersey – Special Health Hazards Substances List U.S. – New York – Occupational Exposure Limits – Mineral Dusts U.S. – New York – Occupational Exposure Limits – TWAs U.S. – Oregon – Permissible Exposure Limits – Mineral Dusts U.S. – California – Safer Consumer Products – Initial List of Candidate Chemicals and Chemical Groups RTK – U.S. – Pennsylvania – RTK (Right to Know) List U.S. – Tennessee – Occupational Exposure Limits – TWAs U.S. – Texas – Effects Screening Levels – Long Term U.S. – Texas – Effects Screening Levels – Short Term U.S. – Vermont – Permissible Exposure Limits – TWAs U.S. – Washington – Permissible Exposure Limits - TWAs

Silica, crystalline (general form) (Not Applicable)

U.S. – Illinois – Toxic Air Contaminant Carcinogens U.S. – Maine – Chemicals of High Concern U.S. – Massachusetts – Toxics Use Reduction Act
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U.S. – Minnesota – Chemicals of High Concern
U.S. – New York – Priority Chemical Avoidance List

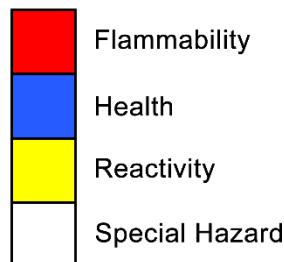
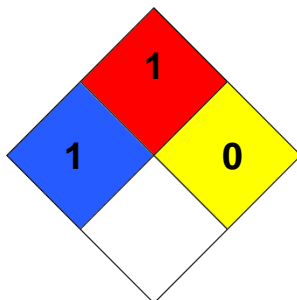
Octamethylcyclotetrasiloxane (556-67-2)

U.S. – Texas – Effects Screening Levels – Long Term
U.S. – Texas – Effects Screening Levels – Short Term
U.S. Maine – Chemicals of Concern
U.S. – Oregon – Priority Persistent Pollutant – Tier 1 – Persistent Pollutants
U.S. – Minnesota – Chemicals of High Concern – Persistent Bioaccumulative Toxins
U.S. – California – Safer Consumer Products – Initial List of Candidate Chemicals and Chemical Groups

SECTION 16: OTHER INFORMATION

Full Text of H-Phrases

Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard Category 3
Flam. Liq. 3	Flammable liquids Category 3
Repr. 2	Reproductive toxicity Category 2
STOT RE 1	Specific target organ toxicity (repeat exposure) Category 1
H226	Flammable liquid and vapor
H361	Suspected of damaging fertility of the unborn child
H372	Causes damage to lungs through prolonged or repeated exposure by inhalation.
H410 Very Toxic to aquatic life with long-lasting effects	Very toxic to aquatic life with long-lasting effects
H412	Harmful to aquatic life with long-lasting effects



NFPA Health Hazard

NFPA Fire Hazard

1 – Material that, under emergency conditions, can cause significant irritation.

1 – Materials that must be preheated before ignition can occur.



NFPA Reactivity Hazard	0 – Material that in themselves are normally stable, even under fire conditions
HMIS III Rating Health	1 Slight Hazard – Irritation or minor reversible injury possible *Chronic – Chronic (long-term) health effects may result from repeated overexposure
Flammability	1 Slight Hazard
Physical	0 Minimal Hazard

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DISCLAIMER / STATEMENT OF LIABILITY:

This is to certify that the above designated material has been tested and did comply with the listed specifications (with listed exceptions) when supplied in original container. The material is subject to the conditions listed on the invoice. The above is a copy of information on file. The lot acceptance data are available for examination. This is a computer-generated document that is valid without a signature. The information above is supplied in good faith and, to the best of our knowledge, is based on available sources believed to be reliable and accurate. This document and any information provided herein are for your guidance only. The use by the requestor is beyond Factor II control; therefore, the responsibility for appropriate and safe use of the above information lies with the End user. Factor II shall not be responsible for any misuse and/or misapplication of the information in this document. Factor II is a distributor of this product not the manufacture. Factor II will warrant this product 6-months from the ship date, some restrictions apply.



SECTION 1: IDENTIFICATION

PRODUCT IDENTIFIER

Product Name : Silicone Elastomer

Product Code : A-101 Part B

Intended Use(s): For professional use only

CONTACT INFORMATION FOR SUPPLIER OF SAFETY DATA SHEET

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SECTION 2: HAZARD(S) IDENTIFICATION

2.1 Classification of the substance or mixture

GHS-US classification (GHS-US)

Not classified

2.2 Label elements

GHS-US labeling

No labeling applicable

2.3 Other hazards

Other hazards not contributing
to the classification

:Exposure may aggravate those pre-existing
eye, skin, or respiratory conditions.

2.4 Unknown acute toxicity {GHS US}

No data available



SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substance

Name	Product identifier	%	GHS-US Classification
Tetrapropyl orthosilicate	(CAS No) 682-01-9	>90	Not classified

3.2 Mixture

Not applicable

SECTION 4: FIRST-AID MEASURES

4.1 Description of first aid measures

First-aid measures general	Never give anything by mouth to an unconscious person. If unwell, seek medical advice (show the label if possible).
First-aid measures after inhalation	Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if difficulty breathing persists.
First-aid measures after skin contact	Rinse immediately with plenty of water. Obtain medical attention if irritation develops or persists.
First-aid measures after eye Contact	Rise cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Obtain medical attention.
First-aid measures after ingestion	Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms/Injuries	Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/Injuries after inhalation	May cause respiratory irritation.
Symptoms/Injuries after skin contact	May cause skin irritation.
Symptoms/Injuries after eye contact	May cause eye irritation.
Symptoms/Injuries after ingestion	Ingestion is likely to be harmful or have adverse effects.
Chronic Symptoms	None expected under normal conditions of use.

4.3 Indication of any immediate medical attention and special treatment needed

If you feel unwell, seek medical advice (show the label where possible.)

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

Suitable extinguishing media	Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	Do not use a heavy water stream. Use of heavy stream of water may spread fire. Application of water stream to hot product may cause frothing and increase fire intensity.



5.2 Special hazards arising from the substance mixture

Fire hazard Not considered flammable but may burn at high temperatures.

Explosion hazard Product is not explosive.

Reactivity Hazardous reactions will not occur under normal conditions.

5.3 Advise for Firefighters

Precautionary measures fire Exercise caution when fighting any chemical fire.

Firefighting instructions Use water spray or fog for cooling exposed containers.

Protection during firefighting Do not enter fire area without proper protective equipment, including respiratory protection.

Other information Refer to section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

General measures :Avoid all contact with skin, eyes, or clothing. Avoid breathing (vapor, mist, spray).

6.1.1 For non-emergency personnel

Protective equipment :Use appropriate personal protection equipment (PPE).

Emergency procedures :Evacuate unnecessary personnel.

6.1.2 For emergency responders

Protective equipment :Equip cleanup crew with proper protection.

Emergency procedures :Stop leak if safe to do so. Eliminate ignition sources. Ventilate area.

6.2 Environmental precautions

Prevent any entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3 Methods and material for containment and clean up

For containment :Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for cleaning up :Clean up spills immediately and dispose of waste safely. Spills should be contained with mechanical barriers. Transfer material to a suitable container for disposal. Contact competent authorities after the spill.

6.4 Reference to other sections

See Heading 8: Exposure controls and personal protection.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Hygiene measures :Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.



7.2 Conditions for safe storage, including incompatibilities

Technical measures :Comply with applicable regulations.
 Storage conditions Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/store away from direct sunlight, extremely high or low temperatures and incompatible materials.
 Incompatible products :Strong acids. Strong bases. Strong oxidizers.

7.3 Specific end use(s)

For professional use only

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

No Occupational Exposure Limits (OELs) have been established for this product or its chemical components.

8.2 Exposure controls

Appropriate engineering controls :Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

Personal protective equipment :Protective goggles. Gloves. Protective clothing.



Materials for protective clothing :Chemically resistant materials and fabrics.
 Hand protection :Wear chemically resistant protective gloves.
 Eye protection :Chemical goggles or safety glasses.
 Skin and body protection :Wear suitable protective clothing.
 Respiratory protection :Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.
 Environmental exposure controls :Do not allow the product to be released into the environment.
 Consumer exposure controls :Do not eat, drink, or smoke during use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid
Appearance	Colorless to light yellow
Odor	Characteristic



Odor threshold	No data available
pH	No data available
Evaporation rate	No data available
Melting point	No data available
Freezing point	No data available
Boiling point	225°C (43.7°F)
Flash point	95°C (204°F)
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Flammability (solid, gas)	No data available
Vapor pressure	No data available
Relative vapor density at 20 °C	No data available
Specific gravity	<1
Solubility	No data available
Partition coefficient: n-octanol/water	No data available
Viscosity	No data available

9.2 Other information

No additional information available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Hazardous reactions will not occur under normal conditions.

10.2 Chemical stability

Stable under recommended handling and storage conditions (see section 7).

10.3 Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4 Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Ignition sources. Incompatible materials.

Minimize exposure to air and humidity

10.5 Incompatible materials

Strong acids, strong bases, strong oxidizers.

10.6 Hazardous decomposition products

Carbon oxides (CO, CO₂), Silicone oxides. Decomposition products from hydrolysis in water: propanol.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity	Not classified
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 respiratory irritation
Symptom/injuries after skin contact	May cause skin irritation
Symptoms/injuries after eye contact	May cause eye irritation
Symptoms/injuries after ingestion	Ingestion is likely to be harmful or have adverse effects
Chronic Symptoms	None expected under normal conditions of use

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

Other information Avoid release to the environment

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste disposal recommendations Dispose of waste material in accordance with all local, regional, national, and international regulations.

Ecology – waste materials Avoid release to the environment

SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

14.1 In Accordance with DOT

Not regulated for transport

14.2 In Accordance with IMDG

Not regulated for transport

14.3 In Accordance with IATA

Not regulated for transport



SECTION 15: REGULATORY INFORMATION

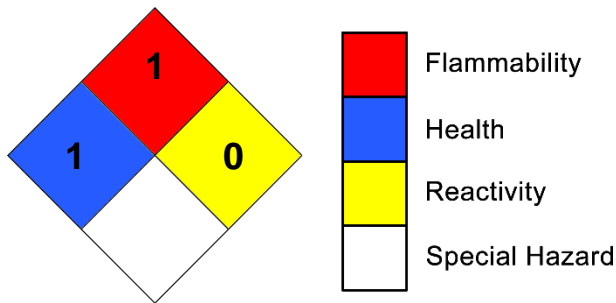
15.1 U.S. Federal regulations

No additional information available

15.2 U.S. State regulations

No additional information available

SECTION 16: OTHER INFORMATION



NFPA Health Hazard

1 – Exposure could cause irritation but only minor residual injury even if no treatment is given.

NFPA Fire Hazard

1 – Must be preheated before ignition can occur.

NFPA Reactivity

0 – Normally stable, even under fire exposure conditions, and are not reactive with water.

HMIS III Rating
Health

1 Slight Hazard – Irritation or minor reversible injury possible
1 Slight Hazard
0 Minimal Hazard

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SECTION 1: IDENTIFICATION

PRODUCT IDENTIFIER

Product Name : Silicone Elastomer

Product Code : A-101 Part C

Intended Use(s): For professional use only

CONTACT INFORMATION FOR SUPPLIER OF SAFETY DATA SHEET

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EMERGENCY TELEPHONE NUMBERS

928- 368-7502

SECTION 2: HAZARD(S) IDENTIFICATION

2.1 Classification of the substance or mixture

GHS-US classification

Serious eye damage/eye irritation Category 1	H318
Skin sensitization, Category 1	H317
Reproductive toxicity Category 1B	H360
Hazardous to the aquatic environment – Acute Hazard Category 2	H401
Hazardous to the aquatic environment – Chronic Hazard Category 3	H412

2.2 Label elements

GHS-US labeling

Hazard Pictograms (GHS-US)



GHS05



GHS07



GHS08



Signal Word (GHS-US)
Hazard Statements (GHS-US)

Danger
H317 – May cause an allergic skin reaction
H318 – Causes serious eye damage
H360 – May damage fertility or the unborn child
H401 – Toxic to aquatic life
H412 – Harmful to aquatic life with long lasting effects
P201 – Obtain special instructions before use.
P202 – Do not handle until all safety precautions have been read and understood.
P261 – Avoid breathing vapors, mist, spray.
P272 – Contaminated work clothing must not be allowed out of the workplace.
P273 – Avoid release to the environment.
P280 – Wear protective gloves, protective clothing, eye protection, face shield.
P302+P352 – If on skin: Wash with plenty of soap and water.
P305+P351+P338 – If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 – Immediately call a poison center or doctor.
P321 – Specific treatment (see Section 4 on this SDS).
P333+P313 – If skin irritation occurs: Get medical advice/attention.
P363 – Wash contaminated clothing before reuse.
P405 – Store locked up.
P501 – Dispose of contents/container in accordance with local, regional, national and international regulations.

Precautionary Statements (GHS-US)

2.3 Other hazards

Other hazards not contributing to the classification :Exposure may aggravate those pre-existing eye, skin, or respiratory conditions.

2.4 Unknown acute toxicity {GHS US}

No additional information available

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substance

Name	Product identifier	%	GHS-US Classification
Hexanoic acid, 2-ethyl-, tin(2+) salt (2:1)	(CAS No) 301-10-0	>90	Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 1B, H360 Aquatic Acute 2, H401 Aquatic Chronic 3, H412



Full text of H- and EUH-statements: see section 16

3.2 Mixture

Not applicable

SECTION 4: FIRST-AID MEASURES

4.1 Description of first aid measures

First-aid measures General	Never give anything by mouth to an unconscious person. If unwell, seek medical advice (show the label if possible).
First-aid measures after inhalation	When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.
First-aid measures after skin contact	Remove contaminated clothing. Wash affected area with soap and water for at least 15 minutes. Obtain medical attention if irritation/rash develops or persists.
First-aid measures after eye Contact	Immediately rinse with water for at least 30 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.
First-aid measures after ingestion	Rinse mouth. DO NOT induce vomiting. Obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms/Injuries	Skin sensitization. May damage fertility or the unborn child. Causes serious eye damage.
Symptoms/Injuries after inhalation	Prolonged exposure may cause irritation.
Symptoms/Injuries after skin contact	May cause allergic skin reaction.
Symptoms/Injuries after eye contact	Causes permanent damage to the cornea, iris, or conjunctiva.
Symptoms/Injuries after ingestion	Ingestion may cause adverse effects.
Chronic Symptoms	May damage fertility or the unborn child. May cause an Allergic skin reaction. Excessive exposure to powdered tin or fumes through inhalation has been known to cause a benign pneumoconiosis called stannosis (which does not cause fibrosis or disability).

4.3 Indication of any immediate medical attention and special treatment needed

If exposed or concerned, get medical advise and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

Suitable extinguishing media	:Water spray, fog, carbon dioxide (CO ₂), Alcohol-resistant foam, or dry chemical.
Unsuitable extinguishing media	Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2 Special hazards arising from the substance mixture



Fire hazard

Not considered flammable but may burn at high temperatures.

Explosion hazard

Product is not explosive.

Reactivity

Hazardous reactions will not occur under normal conditions.

5.3 Advise for Firefighters

Precautionary measures fire

Exercise caution when fighting any chemical fire.

Firefighting instructions

Use water spray or fog for cooling exposed containers.

Protection during firefighting

Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion

Carbon oxides (CO, CO₂). Oxides of tin.

Products

Other Information

Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

General measures

:Do not get in eyes, on skin, or on clothing. Do not breathe vapor, mist or spray.

6.1.1 For non-emergency personnel

Protective equipment

:Use appropriate personal protection equipment (PPE).

Emergency procedures

:Evacuate unnecessary personnel.

6.1.2 For emergency responders

Protective equipment

:Equip cleanup crew with proper protection.

Emergency procedures

:Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

6.2 Environmental precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

6.3 Methods and material for containment and clean up

For containment

:Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for cleaning up

:Clean up spills immediately and dispose of waste safely. Absorb and/or contain spill with inert material. Transfer spilled material to a suitable container for disposal. Contact competent authorities after the spill.

6.4 Reference to other sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.



SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Precautions for Safe handling :Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe vapors, mist, spray. Do not get in eyes, on skin, or on clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Hygiene Measures Handle in accordance with good industrial hygiene and safety procedures.

7.2 Conditions for safe storage, including incompatibilities

Technical measures :Comply with applicable regulations.

Storage conditions Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/store away from direct sunlight, extremely high or low temperatures and incompatible materials.

Incompatible products :Strong acids. Strong bases. Strong oxidizers.

7.3 Specific end use(s)

For professional use only

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), or OSHA (PEL).

Tin organic compounds

USA ACGIH	ACGIH OEL TWA	0.1 mg/m ³
USA ACGIH	ACHIG OEL STEL	0.2 mg/m ³
USA ACGIH	ACGIH chemical category	Not classifiable as a Human carcinogen, skin – potential significant contribution to overall exposure by the cutaneous route
USA NIOSH	NIOSH REL (TWA)	0.1 mg/m ³ (except Cyhexatin)
USA OSHA	OSHA PEL (TWA) [1]	0.1 mg/m ³

8.2 Exposure controls

Appropriate engineering controls :Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.



Personal protective equipment

:Gloves. Protective clothing. Protective goggles.
Insufficient ventilation: wear respiratory protection.



Materials for protective clothing

:Chemically resistant materials and fabrics.

Hand protection

:Wear protective gloves.

Eye protection and face protection

:Chemical safety goggles.

Skin and body protection

:Wear protective clothing.

Respiratory protection

:If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere should be, or where exposure levels are not known wear approved respiratory protection.

Other information

When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

Physical state	Liquid
Appearance	Viscous, light yellow
Color	No data available
Odor	No data available
Odor Threshold	No data available
pH	No data available
Evaporation rate	No data available
Melting point	9° C (48.2°F)
Boiling point	Decomposes before boiling
Flash point	137°C EU Method A.9 (278.6°F)
Auto-ignition temperature	>400°C (752°F)
Decomposition temperature	No data available
Flammability (solid, gas)	Not applicable
Vapor pressure	<0.1 hPa(a) at 25°C (77°F)
Relative vapor density at 20 °C	No data available
Relative Density	1.26 (Water=1)
Density	1.251 g/cm ³
Solubility	Water: Soluble
Partition Coefficient n-Octanol/Water	No data available
Viscosity	No data available

9.2 Other information

VOC Content

<1%



SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Hazardous reactions will not occur under normal conditions.

10.2 Chemical stability

Stable under recommended handling and storage conditions (see section 7).

10.3 Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4 Conditions to avoid

Direct sunlight. Extremely high or low temperatures, and incompatible materials. Minimize exposure to air and humidity.

10.5 Incompatible materials

Strong acids, strong bases, strong oxidizers.

10.6 Hazardous decomposition products

Thermal decomposition may produce: Carbon oxides (CO, CO₂). Oxides of tin.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity (Oral)	Not classified
Acute Toxicity (Dermal)	Not classified
Acute Toxicity (Inhalation)	Not classified

Hexanoic acid, 2-ethyl-tin(2+) salt (2:1) (301-10-0)

LD50 Oral Rat	5.97 g/kg
LD50 Dermal Rat	>2000 mg/kg body weight
LD50 Dermal Rabbit	>2000 mg/kg (Source: ECHA_API)

Skin Corrosion/Irritation	Not classified
Serious Eye Damage/Irritation	Causes serious eye damage.
Respiratory or Skin Sensitization	May cause an allergic skin reaction.
Germ Cell Mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive Toxicity	May damage fertility or the unborn child.
Specific Target Organ Toxicity (Single Exposure)	Not classified
Specific Target Organ Toxicity (Repeated Exposure)	Not classified
Aspiration Hazard	Not classified
Symptoms/Injuries After Inhalation	Prolonged exposure may cause irritation.
Symptoms/Injuries After Skin Contact	May cause an allergic skin reaction.
Symptoms/Injuries After Eye Contact	Causes permanent damage to the cornea, iris, or conjunctiva.
Symptoms/Injuries After Ingestion	Ingestion may cause adverse effects.



Chronic Symptoms

May damage fertility or the unborn child. May cause an allergic skin reaction. Excessive exposure to powdered tin or fumes through inhalation has been known to cause a benign pneumoconiosis called stannosis (which does not cause fibrosis or disability)

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Ecology – General

Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Hexanoic acid, 2-ethyl-, tin(2+) salt (2:1) (301-10-0)

LC50 Fish 1	>116mg/l (Exposure Time : 96 hours, Species: Oncorhynchus mykiss [semi-static])
EC50 – Crustacea [1]	66.3 mg/l (tin dichloride)

12.2 Persistence and degradability

A-101 Part C (301-10-0)

Persistence and Degradability	May cause long-term effects in the environment.
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12.3 Bioaccumulative potential

A-101 Part C (301-10-0)

Bioaccumulative Potential	Not established
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12.4 Mobility in soil

No additional information available

12.5 Other adverse effects

Other information

Avoid release to the environment

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste disposal recommendations

Dispose of waste material in accordance with all local, regional, national, and international regulations.

Recommendations

Container may remain hazardous when empty. Continue to observe all precautions.

Ecology – Waste Materials

Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been know at the time the SDS was issued.



14.1 In Accordance with DOT

Not regulated for transport

14.2 In Accordance with IMDG

Not regulated for transport

14.3 In Accordance with IATA

Not regulated for transport

SECTION 15: REGULATORY INFORMATION

15.1 U.S. Federal regulations

All components in this mixture are listed on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, have been exempted, are not listed, not disclosed due to CBI requirements or disclosure rules according to the relevant regulation.

A-101 Part C (301-10-0)

SARA Section 311/312 Hazard Classes	Health hazard – Respiratory or skin sensitization Health hazard – Reproductive toxicity Health hazard – Serious eye damage or eye irritation
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15.2 U.S. State regulations

Hexanoic acid, 2-ethyl-, tin(2+) salt (2:1) (301-10-0)

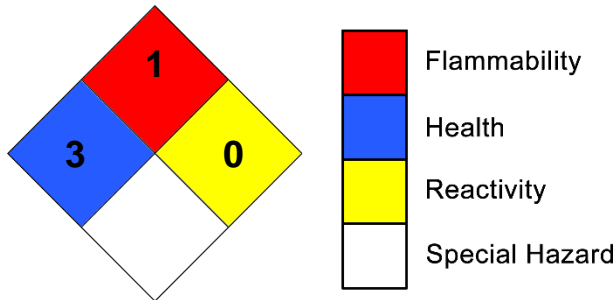
RTK – U.S. – Massachusetts – Right To Know List U.S. – Texas – Effects Screening Levels – Long Term U.S. – Texas – Effects Screening Levels – Short Term
Tin organic compounds

U.S. – Minnesota – Hazardous Substance List U.S. – Tennessee – Occupational Exposure Limits – TWAs U.S. – Tennessee – Occupational Exposure Limits – Skin Designations U.S. – Vermont – Permissible Exposure Limits – TWAs U.S. – Connecticut – Hazardous Air Pollutants – HLVs (8 hr) U.S. - Vermont – Permissible Exposure Limits – Skin Designations U.S. – Washington – Permissible Exposure Limits – TWAs U.S. – Connecticut – Hazardous Air Pollutans – HLVs (30 min) U.S. – Washington – Permissible Exposure Limits – STELs U.S. – Washington – Permissible Exposure Limits – Skin Designations U.S. – Idaho – Non-Carcinogenic Toxic Air Pollutants – Emmision Levels (Els) U.S. – Idaho – Non-Carcinogenic Toxic Air Pollutants – Acceptable Ambient Concentrations U.S. – New York – Occupational Exposure Limits – Skin TWAs U.S. – New York – Occupational Exposure Limits – Skin Designations U.S. – Michigan – Occupational Exposure Limits – Skin TWAs U.S. – Michigan – Occupational Exposure Limits – Skin Designations U.S. – Minnesota – Permissible Exposure Limits – Skin Designations U.S. – Minnesota – Permissible Exposure Limits – TWAs U.S. – Oregon – Permissible Exposure Limits – TWAs U.S. – Texas – Effects Screening Levels – Long Term
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Texas – Effects Screening Levels – Short Term
 U.S. – Wisconsin – Hazardous Air Contaminants – All Sources – Emissions From Stack Heights 75 Feet or Greater
 U.S. – Wisconsin – Hazardous Air Contaminants – All Sources – Emissions From Stack Heights 40 Feet to Less Than 75 Feet
 U.S. – Wisconsin – Hazardous Air Contaminants – All Sources – Emissions From Stack Heights 25 Feet to less than 40 Feet
 U.S. – North Dakota – Air Pollutants – Guideline Concentrations – 1-Hour
 U.S. – North Dakota – Air Pollutants – Guideline Concentrations – 8-Hour
 U.S. – New Hampshire – Regulated Toxic Air Pollutants – Ambient Air Levels (AALs) – 24 Hour
 U.S. – New Hampshire – Regulated Toxic Air Pollutants – Ambient Air Levels (AALs) - Annual

SECTION 16: OTHER INFORMATION



NFPA Health Hazard 3 – Materials that, under emergency conditions, can cause serious or permanent injury.

NFPA Fire Hazard 1 – Must be preheated before ignition can occur.

NFPA Reactivity 0 – Normally stable, even under fire exposure conditions, and are not reactive with water.

HMIS III Rating Health 3 Serious Hazard
*Chronic – Chronic (long-term) health effects may result from repeated overexposure

Flammability Physical 1 Slight Hazard
0 Minimal Hazard

Glossary of Data Source Abbreviations



ATSDR: Agency for Toxic Substances and Disease Registry (U.S. Department of Health and Human Services)
AU_WES: Australia WES
CHEMVIEW: ChemView (U.S. Environmental Protection Agency)
EC_RAR: European Commission Renewal Assessment Report
EC_SCOEL: European Commission Scientific Committee on Occupational Exposure Limits
ECHA_API: European Chemicals Agency API
ECHA_RAC: ECHA Committee for Risk Assessment
EFSA: European Food Safety Authority
EPA: U.S. Environmental Protection Agency
EPA_AEGL: Acute Exposure Guideline Levels (U.S. Environmental Protection Agency)
EPA_FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act
Reregistration Eligibility Decision (U.S. Environmental Protection Agency)
EPA_HPVC: High Production Volume Chemicals (U.S. Environmental Protection Agency)
EPA_TRED: Risk Assessment for Tolerance Reassessment Eligibility Decision (U.S. Environmental Protection Agency)
EU_CLU: European Union Harmonised Classification and Labeling Proposal
EU_RAR: European Union Risk Assessment Report
FOOD_JOURN: Food Research Journal (1956)
IARC: The International Agency for Research on Cancer
IDLH: National Institute for Occupational Health and Safety Immediately Dangerous to Life or Health Value Profiles
IUCLID: International Uniform Chemical Information Database
JAPAN_GHS: Japan GHS Basis for Classification Data
JP_J-CHECK: Japan J-Check
KR_NIER: South Korea National Institute of Environmental Research Evaluations
NICNAS: Australia National Industrial Chemicals Notification and Assessment Scheme
NIOSH: National Institute for Occupational Health and Safety (U.S. Department of Health and Human Services)
NLM_CIP: National Library of Medicine ChemID plus database
NLM_HSDB: National Library of Medicine Hazardous Substances Data Bank
NLM_PUBMED: National Library of Medicine PubMed database
NTP: National Toxicology Program
NZ_CCID: New Zealand Chemical Classification and Information Database
OECD_SIDS: Screening Information Data Sets (Organisation for Economic Co-operation and Development)
WHO: World Health Organization

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