

R-2631 Part A

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Revision Date: 03/22/2024 Date of Issue: 11/20/2014



Version 4.0

SECTION 1: Identification

1.1. Product Identifier

Product Form Mixture
Product Name R-2631 Part A
Synonyms Silicone Elastomer

1.2. Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Use of the Substance/Mixture For professional use only.

1.3. Details of the Supplier of the Safety Data Sheet

NuSil Technology LLC
1050 Cindy Lane
Carpinteria, California 93013
USA
(805) 684-8780
productstewardship@avantorsciencesgcc.com
www.nusil.com

1.4. Emergency Telephone Number

Emergency Number 800-424-9300 CHEMTREC (in US); +1 703-527-3887 CHEMTREC (International and Maritime)

SECTION 2: Hazards Identification

2.1. Classification of the Substance or Mixture

GHS-US Classification

Reproductive toxicity Category 2 H361
Hazardous to the aquatic environment – Chronic Hazard Category 3 H412

2.2. Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)



GHS08

Signal Word (GHS-US)

Warning

Hazard Statements (GHS-US)

H361 - Suspected of damaging fertility or the unborn child
H412 - Harmful to aquatic life with long lasting effects

Precautionary Statements (GHS-US)

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.

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2.3. Other Hazards

Other Hazards Not Contributing to the Classification Exposure may aggravate 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. Substances

Not applicable

3.2. Mixtures

| Name | Product Identifier | %* | GHS-US Classification |
|--|----------------------|--------|--|
| Carbon black | (CAS-No.) 1333-86-4 | < 20 | Not classified |
| Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica | (CAS-No.) 68909-20-6 | < 20 | Not classified |
| Octamethylcyclotetrasiloxane | (CAS-No.) 556-67-2 | < 0.25 | Flam. Liq. 3, H226 Repr. 2, H361 Aquatic Chronic 1, H410 |

Full text of H-phrases: see section 1.6

*The specific chemical identity and/or exact percentage of composition have been withheld as a trade secret [29 CFR 1910.1200].

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 you feel unwell, seek medical advice (show the label where 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. Drench affected area with water for at least 5 minutes. If exposed or concerned: Get medical advice/attention. |
| First-aid Measures After Eye Contact | Rinse cautiously with water for at least 5 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists. |
| 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 | 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 slight irritation to eyes. |

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Symptoms/Injuries After Ingestion may cause adverse effects.
Ingestion

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

5.1. Extinguishing Media

Suitable Extinguishing Media : Water spray, fog, carbon dioxide (CO₂), 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 or 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.

Hazardous Combustion Products Carbon oxides (CO, CO₂). Silicon oxides. Oxides of platinum. Formaldehyde.

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 protective 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 Materials for Containment and Cleaning Up

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

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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 a 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

Additional Hazards When Processed

Will decompose above 150 °C (> 300 °F) releasing formaldehyde vapors.

Precautions for Safe Handling

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, or spray. 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 Any Incompatibilities

Technical Measures
Storage Conditions

Comply with applicable regulations.

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. Store locked up/in a secure area.

Incompatible Materials

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).

| Carbon black (1333-86-4) | | |
|---|-------------------------|---|
| USA ACGIH | ACGIH OEL TWA | 3 mg/m ³ (inhalable particulate matter) |
| USA ACGIH | ACGIH chemical category | Confirmed Animal Carcinogen with Unknown Relevance to Humans |
| USA NIOSH | NIOSH REL (TWA) | 3.5 mg/m ³ 0.1 mg/m ³ (Carbon black in presence of Polycyclic aromatic hydrocarbons) |
| USA OSHA | OSHA PEL (TWA) [1] | 3.5 mg/m ³ |
| Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica (68909-20-6) | | |
| USA NIOSH | NIOSH REL (TWA) | 6 mg/m ³ |
| USA OSHA | OSHA PEL (TWA) [1] | 6 mg/m ³ |

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| | | |
|---|--------------------|--|
| USA OSHA | OSHA PEL (TWA) [2] | 20 mppcf (80mg/m ³ /%SiO ₂) |
| Octamethylcyclotetrasiloxane (556-67-2) | | |
| USA AIHA | WEEL TWA | 10 ppm |

8.2. Exposure Controls

Appropriate Engineering Controls

Suitable eye/body wash equipment should be available in the vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. 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 And Face 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 | Paste |
| Appearance | Black |
| Odor | Odorless. |
| 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 | > 135 °C (275 °F) |
| 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 |
| Relative Density | > 1 (Water = 1) |
| Specific Gravity | No data available |
| Solubility | No data available |
| Partition Coefficient n-Octanol/Water | No data available |
| Viscosity | No data available |

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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.

10.5. Incompatible Materials

Strong acids, strong bases, strong oxidizers.

10.6. Hazardous Decomposition Products

Thermal decomposition may produce: Carbon oxides (CO, CO₂). Silicon oxides. Oxides of platinum. 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 (Oral) Not classified

Acute Toxicity (Dermal) Not classified

Acute Toxicity (Inhalation) Not classified

| Carbon black (1333-86-4) | |
|--------------------------|---------------|
| LD50 Oral Rat | > 8000 mg/kg |
| LC50 Inhalation Rat | > 4.6 mg/l/4h |

| Octamethylcyclotetrasiloxane (556-67-2) | |
|---|-----------------------------|
| LD50 Oral Rat | > 4800 mg/kg (No mortality) |
| LD50 Dermal Rat | > 2375 mg/kg (Source: ECHA) |
| LD50 Dermal Rabbit | > 2.5 ml/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. Not classified.

Germ Cell Mutagenicity Not classified

Carcinogenicity Not classified

| Carbon black (1333-86-4) | |
|---|---|
| IARC Group | 2B |
| OSHA Hazard Communication Carcinogen List | In OSHA Hazard Communication Carcinogen list. |

Reproductive Toxicity Suspected of damaging fertility or the unborn child.

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| | |
|--|--|
| 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. |
| Ecology - water | Harmful to aquatic life with long lasting effects. |

| | |
|---|--|
| Carbon black (1333-86-4) | |
| EC50 - Crustacea [1] | 5600 mg/l (Exposure time: 24 h - Species: Daphnia magna) |
| Octamethylcyclotetrasiloxane (556-67-2) | |
| LC50 Fish 1 | > 22 µg/l |
| NOEC Chronic Fish | 0.0044 mg/l |

12.2. Persistence and Degradability

| | |
|-------------------------------|---|
| R-2631 Part A | |
| Persistence and Degradability | May cause long-term adverse effects in the environment. |

12.3. Bioaccumulative Potential

| | |
|---|-----------------------|
| R-2631 Part A | |
| Bioaccumulative Potential | Not established. |
| Octamethylcyclotetrasiloxane (556-67-2) | |
| BCF Fish 1 | (12400 dimensionless) |
| 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. |

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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 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. US 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.

| | |
|-------------------------------------|---------------------------------------|
| R-2631 Part A | |
| SARA Section 311/312 Hazard Classes | Health hazard - Reproductive toxicity |

15.2. US State Regulations

| | |
|---|--|
| Carbon black (1333-86-4) | |
| U.S. - California - Proposition 65 - Carcinogens List | WARNING: This product contains chemicals known to the State of California to cause cancer. |

| | |
|--|--|
| Carbon black (1333-86-4) | |
| RTK - U.S. - New Jersey - Right to Know Hazardous Substance List | |
| RTK - U.S. - Pennsylvania - RTK (Right to Know) List | |
| U.S. - Minnesota - Hazardous Substance List | |
| RTK - U.S. - Massachusetts - Right To Know List | |
| U.S. - New Jersey - Special Health Hazards Substances List | |
| U.S. - California - Toxic Air Contaminant List (AB 1807, AB 2728) | |
| U.S. - Illinois - Toxic Air Contaminants | |
| U.S. - Tennessee - Occupational Exposure Limits - TWAs | |
| U.S. - Vermont - Permissible Exposure Limits - TWAs | |
| U.S. - Connecticut - Hazardous Air Pollutants - HLVs (8 hr) | |
| U.S. - Washington - Permissible Exposure Limits - TWAs | |
| U.S. - Connecticut - Hazardous Air Pollutants - HLVs (30 min) | |
| U.S. - Washington - Permissible Exposure Limits - STELs | |
| U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs) | |
| U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations | |
| U.S. - Illinois - Toxic Air Contaminant Carcinogens | |
| U.S. - New York - Occupational Exposure Limits - TWAs | |
| U.S. - Michigan - Occupational Exposure Limits - TWAs | |

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U.S. - Minnesota - Permissible Exposure Limits - TWAs
U.S. - Oregon - Permissible Exposure Limits - TWAs
U.S. - Texas - Effects Screening Levels - Long Term
U.S. - 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. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights Less Than 25 Feet
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
U.S. - Maine - Chemicals of Concern
U.S. - Minnesota - Chemicals of High Concern
U.S. - California - Safer Consumer Products - Initial List of Candidate Chemicals and Chemical Groups

Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica (68909-20-6)

U.S. - Texas - Effects Screening Levels - Long Term

U.S. - Texas - Effects Screening Levels - Short Term

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 I - Persistent Pollutants

U.S. - Minnesota - Chemicals of High Concern

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, Including Date of Preparation or Last Revision

Date of Preparation or Latest Revision 03/22/2024

Revision

Other Information

This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

The specific chemical identity and/or exact percentage of composition have been withheld as a trade secret [29 CFR 1910.1200].

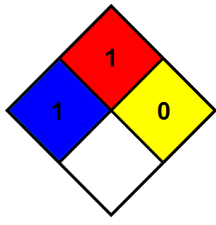
GHS Full Text Phrases:

| | |
|------|--|
| H226 | Flammable liquid and vapor |
| H227 | Combustible liquid |
| H361 | Suspected of damaging fertility or the unborn child |
| H410 | Very toxic to aquatic life with long lasting effects |
| H412 | Harmful to aquatic life with long lasting effects |

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| | | |
|------------------------|---|---|
| NFPA Health Hazard | 1 - Materials that, under emergency conditions, can cause significant irritation. |  |
| NFPA Fire Hazard | 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 * 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
ECETOC: European Centre for Ecotoxicology and Toxicology of Chemicals Reports
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_CLH: European Union Harmonised Classification and Labelling 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
IUCRID: 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_HSUB: National Library of Medicine Hazardous Substance Data Bank
NLM_PUBMED: National Library of Medicine PubMed database
NTP: National Toxicology Program
NZ_CCID: New Zealand Chemical Classification and Information Database
OECD_EHSP: Environment, Health, and Safety Publication (Organisation for Economic Co-operation and Development)
OECD_SIDS: Screening Information Data Sets (Organisation for Economic Co-operation and Development)
WHO: World Health Organization

The information provided in this Safety Data Sheet (SDS) was prepared based on data believed to be accurate as of the date of this SDS. TO THE GREATEST EXTENT PERMITTED BY LAW, NUSIL TECHNOLOGY LLC AND ITS AFFILIATED COMPANIES ("NUSIL") EXPRESSLY DISCLAIMS ANY AND ALL REPRESENTATIONS AND WARRANTIES REGARDING THE INFORMATION CONTAINED HEREIN INCLUDING, WITHOUT LIMITATION, AS TO ACCURACY, COMPLETENESS, FITNESS FOR PURPOSE OR USE, MERCHANTABILITY, NON-INFRINGEMENT, PERFORMANCE, SAFETY, SUITABILITY AND STABILITY. This SDS is intended as a guide to the appropriate use, handling, storage and disposal of the product to which it relates by properly trained personnel, and is not intended to be comprehensive. Users of NuSil's products are advised to perform their own tests and to exercise their own judgment to determine the safety, suitability and appropriate use, handling, storage and disposal of each product and product combination for their own purposes and uses. TO THE GREATEST EXTENT PERMITTED BY LAW, NUSIL DISCLAIMS LIABILITY FOR, AND BY USING NUSIL'S PRODUCTS PURCHASER AGREES THAT UNDER NO CIRCUMSTANCES SHALL NUSIL BE LIABLE FOR, SPECIAL, INDIRECT, INCIDENTAL, PUNITIVE OR CONSEQUENTIAL DAMAGES OF ANY TYPE OR KIND, INCLUDING WITHOUT LIMITATION, FOR LOSS OF PROFITS, REPUTATIONAL DAMAGE, PRODUCT RECALL OR BUSINESS INTERRUPTION.

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Revision Date: 03/22/2024 Date of Issue: 11/20/2014

SECTION 1: Identification

1.1. Product Identifier

Product Form Mixture
Product Name R-2631 Part B
Synonyms Silicone Elastomer

1.2. Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Use of the Substance/Mixture For professional use only.

1.3. Details of the Supplier of the Safety Data Sheet

NuSil Technology LLC
1050 Cindy Lane
Carpinteria, California 93013
USA
(805) 684-8780
productstewardship@avantorsciencesgcc.com
www.nusil.com

1.4. Emergency Telephone Number

Emergency Number 800-424-9300 CHEMTREC (in US); +1 703-527-3887 CHEMTREC (International and Maritime)

SECTION 2: Hazards Identification

2.1. Classification of the Substance or Mixture

GHS-US Classification

Reproductive toxicity Category 1B H360
Hazardous to the aquatic environment – Chronic Hazard Category 3 H412

2.2. Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)



GHS08

Signal Word (GHS-US)

Danger

Hazard Statements (GHS-US)

H360 - May damage fertility or the unborn child
H412 - Harmful to aquatic life with long lasting effects

Precautionary Statements (GHS-US)

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, eye protection, face protection, respiratory 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.

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2.3. Other Hazards

Other Hazards Not Contributing to the Classification Exposure may aggravate 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. Substances

Not applicable

3.2. Mixtures

| Name | Product Identifier | %* | GHS-US Classification |
|--|----------------------|--------|--|
| Carbon black | (CAS-No.) 1333-86-4 | < 20 | Not classified |
| Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica | (CAS-No.) 68909-20-6 | < 20 | Not classified |
| Siloxanes and Silicones, dimethyl, methyl hydrogen | (CAS-No.) 68037-59-2 | < 10 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 |
| Methyl vinylcyclosiloxane | (CAS-No.) 2554-06-5 | 1 - 5 | Repr. 1B, H360 |
| Octamethylcyclotetrasiloxane | (CAS-No.) 556-67-2 | < 0.25 | Flam. Liq. 3, H226 Repr. 2, H361 Aquatic Chronic 1, H410 |

Full text of H-phrases: see section 16

The specific chemical identity and/or exact percentage of composition have been withheld as a trade secret [29 CFR 1910.1200].

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 you feel unwell, seek medical advice (show the label where 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. Drench affected area with water for at least 5 minutes. If exposed or concerned: Get medical advice/attention. |
| First-aid Measures After Eye Contact | Rinse cautiously with water for at least 5 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists. |
| 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 | May damage fertility or the unborn child. |
| Symptoms/Injuries After Inhalation | Prolonged exposure may cause irritation. |

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| | |
|--------------------------------------|---|
| 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 | May damage 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

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 or Mixture

| | |
|------------------|---|
| Fire Hazard | Not considered flammable but may burn at high temperatures. |
| Explosion Hazard | Product is not explosive. |
| Reactivity | Contact with water, alcohols, acids or bases, and many metals or metallic compounds can liberate flammable Hydrogen gas which can form explosive mixtures in air. |

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. |
| Hazardous Combustion Products | Carbon oxides (CO, CO ₂). Silicon oxides. Formaldehyde. Explosive hydrogen gas. |
| 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 protective 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.

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6.3. Methods and Materials for Containment and Cleaning 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 a 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

Additional Hazards When Processed

Will decompose above 150 °C (> 300 °F) releasing formaldehyde vapors.

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 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. Store locked up/in a secure area.

Incompatible Materials

Alcohols. Metals. Strong acids, strong bases, strong oxidisers. Water.

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).

| Carbon black (1333-86-4) | | |
|--------------------------|-------------------------|---|
| USA ACGIH | ACGIH OEL TWA | 3 mg/m ³ (inhalable particulate matter) |
| USA ACGIH | ACGIH chemical category | Confirmed Animal Carcinogen with Unknown Relevance to Humans |
| USA NIOSH | NIOSH REL (TWA) | 3.5 mg/m ³ 0.1 mg/m ³ (Carbon black in presence of Polycyclic aromatic hydrocarbons) |

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| | | |
|---|--------------------|--|
| USA OSHA | OSHA PEL (TWA) [1] | 3.5 mg/m ³ |
| Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica (68909-20-6) | | |
| USA NIOSH | NIOSH REL (TWA) | 6 mg/m ³ |
| USA OSHA | OSHA PEL (TWA) [1] | 6 mg/m ³ |
| USA OSHA | OSHA PEL (TWA) [2] | 20 mppcf (80mg/m ³ /%SiO ₂) |
| Octamethylcyclotetrasiloxane (556-67-2) | | |
| USA AIHA | WEEL TWA | 10 ppm |

8.2. Exposure Controls

Appropriate Engineering Controls

Suitable eye/body wash equipment should be available in the vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. 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 And Face 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 | Paste |
| Appearance | Black |
| Odor | Odorless |
| 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 | > 135 °C (275 °F) |
| 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 |
| Relative Density | > 1 (Water=1) |
| Specific Gravity | No data available |

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| | |
|---------------------------------------|-------------------|
| Solubility | No data available |
| 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

Contact with water, alcohols, acids or bases, and many metals or metallic compounds can liberate flammable Hydrogen gas which can form explosive mixtures in air.

10.2. Chemical Stability

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

10.3. Possibility of Hazardous Reactions

Evolved hydrogen gas is flammable and may form explosive mixtures with air. Hazardous polymerization will not occur.

10.4. Conditions to Avoid

Direct sunlight, extremely high or low temperatures, and incompatible materials.

10.5. Incompatible Materials

Alcohols. Metals. Strong acids, strong bases, strong oxidisers. Water.

10.6. Hazardous Decomposition Products

May produce explosive hydrogen gas on contact with incompatibilities or upon thermal decomposition. Thermal decomposition may produce: Carbon oxides (CO, CO₂). Silicon oxides. 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 (Oral) | Not classified |
| Acute Toxicity (Dermal) | Not classified |
| Acute Toxicity (Inhalation) | Not classified |

| | |
|--------------------------|---------------|
| Carbon black (1333-86-4) | |
| LD50 Oral Rat | > 8000 mg/kg |
| LC50 Inhalation Rat | > 4.6 mg/l/4h |

| | |
|--------------------------------------|---|
| Methyl vinylcyclsiloxane (2554-06-5) | |
| LD50 Oral Rat | > 4800 mg/kg (Read accross, no deaths) |
| LD50 Dermal Rabbit | > 2000 mg/kg (no deaths) |
| LC50 Inhalation Rat | > 1.32 mg/l/4h (Species: Sprague-Dawley, maximum achievable concentration, no deaths) |

| | |
|---|-----------------------------|
| Octamethylcyclotetrasiloxane (556-67-2) | |
| LD50 Oral Rat | > 4800 mg/kg (No mortality) |
| LD50 Dermal Rat | > 2375 mg/kg (Source: ECHA) |
| LD50 Dermal Rabbit | > 2.5 ml/kg (No mortality) |
| LC50 Inhalation Rat | 36 mg/l/4h |
| Skin Corrosion/Irritation | Not classified |

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| | |
|-----------------------------------|-----------------|
| Serious Eye Damage/Irritation | Not classified |
| Respiratory or Skin Sensitization | Not classified |
| Germ Cell Mutagenicity | Not classified |
| Carcinogenicity | Not classified. |

| | |
|---|---|
| Carbon black (1333-86-4) | |
| IARC Group | 2B |
| OSHA Hazard Communication Carcinogen List | In OSHA Hazard Communication Carcinogen list. |

| | |
|--|---|
| 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 | 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 | May damage fertility or the unborn child. |

SECTION 12: Ecological Information

12.1. Toxicity

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

| | |
|---|--|
| Carbon black (1333-86-4) | |
| EC50 - Crustacea [1] | 5600 mg/l (Exposure time: 24 h - Species: Daphnia magna) |
| Octamethylcyclotetrasiloxane (556-67-2) | |
| LC50 Fish 1 | > 22 µg/l |
| NOEC Chronic Fish | 0.0044 mg/l |

12.2. Persistence and Degradability

| | |
|-------------------------------|---|
| R-2631 Part B | |
| Persistence and Degradability | May cause long-term adverse effects in the environment. |

12.3. Bioaccumulative Potential

| | |
|---|-----------------------|
| R-2631 Part B | |
| Bioaccumulative Potential | Not established. |
| Methyl vinylcyclsiloxane (2554-06-5) | |
| Partition coefficient n-octanol/water (Log Pow) | 6.47 |
| Octamethylcyclotetrasiloxane (556-67-2) | |
| BCF Fish 1 | (12400 dimensionless) |
| Partition coefficient n-octanol/water (Log Pow) | 6.488 (at 25.1 °C) |

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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 Dispose of contents/container in accordance with local, regional, national, and international regulations.
Recommendations
Additional Information 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 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. US 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.

| | |
|-------------------------------------|---------------------------------------|
| R-2631 Part B | |
| SARA Section 311/312 Hazard Classes | Health hazard - Reproductive toxicity |

15.2. US State Regulations

| | |
|--|--|
| Carbon black (1333-86-4) | |
| U.S. - California - Proposition 65 - Carcinogens List | WARNING: This product contains chemicals known to the State of California to cause cancer. |
| Siloxanes and Silicones, dimethyl, methyl hydrogen (68037-59-2) | |
| U.S. - Texas - Effects Screening Levels - Long Term | |
| U.S. - Texas - Effects Screening Levels - Short Term | |
| Carbon black (1333-86-4) | |
| RTK - U.S. - New Jersey - Right to Know Hazardous Substance List | |
| RTK - U.S. - Pennsylvania - RTK (Right to Know) List | |
| U.S. - Minnesota - Hazardous Substance List | |

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RTK - U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Special Health Hazards Substances List
U.S. - California - Toxic Air Contaminant List (AB 1807, AB 2728)
U.S. - Illinois - Toxic Air Contaminants
U.S. - Tennessee - Occupational Exposure Limits - TWAs
U.S. - Vermont - Permissible Exposure Limits - TWAs
U.S. - Connecticut - Hazardous Air Pollutants - HLVs (8 hr)
U.S. - Washington - Permissible Exposure Limits - TWAs
U.S. - Connecticut - Hazardous Air Pollutants - HLVs (30 min)
U.S. - Washington - Permissible Exposure Limits - STELs
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs)
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations
U.S. - Illinois - Toxic Air Contaminant Carcinogens
U.S. - New York - Occupational Exposure Limits - TWAs
U.S. - Michigan - Occupational Exposure Limits - TWAs
U.S. - Minnesota - Permissible Exposure Limits - TWAs
U.S. - Oregon - Permissible Exposure Limits - TWAs
U.S. - Texas - Effects Screening Levels - Long Term
U.S. - 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. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights Less Than 25 Feet
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
U.S. - Maine - Chemicals of Concern
U.S. - Minnesota - Chemicals of High Concern
U.S. - California - Safer Consumer Products - Initial List of Candidate Chemicals and Chemical Groups

Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica (68909-20-6)

U.S. - Texas - Effects Screening Levels - Long Term

U.S. - Texas - Effects Screening Levels - Short Term

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 I - Persistent Pollutants

U.S. - Minnesota - Chemicals of High Concern

U.S. - Minnesota - Chemicals of High Concern - Persistent Bioaccumulative Toxins

U.S. - California - Safer Consumer Products - Initial List of Candidate Chemicals and Chemical Groups

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SECTION 16: Other Information, Including Date of Preparation or Last Revision

Date of Preparation or Latest Revision 03/22/2024

Revision

Other Information

This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

| | |
|------|--|
| H226 | Flammable liquid and vapor |
| H315 | Causes skin irritation |
| H319 | Causes serious eye irritation |
| H335 | May cause respiratory irritation |
| H360 | May damage fertility or the unborn child |
| H361 | Suspected of damaging fertility or the unborn child |
| H410 | Very toxic to aquatic life with long lasting effects |
| H412 | Harmful to aquatic life with long lasting effects |

NFPA Health Hazard

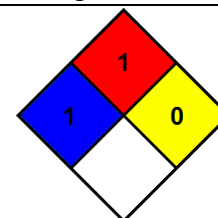
1 - Materials that, under emergency conditions, can cause significant irritation.

NFPA Fire Hazard

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

* 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

ECETOC: European Centre for Ecotoxicology and Toxicology of Chemicals Reports

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_CLH: European Union Harmonised Classification and Labelling 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 Substance Data Bank

NLM_PUBMED: National Library of Medicine PubMed database

NTP: National Toxicology Program

NZ_CCID: New Zealand Chemical Classification and Information Database

OECD_EHSP: Environment, Health, and Safety Publication (Organisation for Economic Co-operation and Development)

OECD_SIDS: Screening Information Data Sets (Organisation for Economic Co-operation and Development)

WHO: World Health Organization

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