

# R-1505

## Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations  
Revision Date: 05/05/2024 Date of Issue: 06/09/2014



Version 4.0

### SECTION 1: Identification

#### 1.1. Product Identifier

Product Form Mixture  
Product Name R-1505  
Synonyms Silicone Adhesive

#### 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](mailto:productstewardship@avantorsciencesgcc.com)

[www.nusil.com](http://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

|  |      |
|--|------|
| Serious eye damage/eye irritation Category 2A                    | H319 |
| Skin sensitization, Category 1                                   | H317 |
| Reproductive toxicity Category 1B                                | H360 |
| Specific target organ toxicity (repeated exposure) Category 2    | H373 |
| Hazardous to the aquatic environment – Acute Hazard Category 3   | H402 |
| Hazardous to the aquatic environment – Chronic Hazard Category 3 | H412 |

#### 2.2. Label Elements

##### GHS-US Labeling

Hazard Pictograms (GHS-US)



GHS07



GHS08

Signal Word (GHS-US)

Danger

Hazard Statements (GHS-US)

H317 - May cause an allergic skin reaction  
H319 - Causes serious eye irritation  
H360 - May damage fertility or the unborn child  
H373 - May cause damage to organs (hematopoietic system) through prolonged or repeated exposure (oral)  
H402 - Harmful to aquatic life  
H412 - Harmful to aquatic life with long lasting effects

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### Precautionary Statements (GHS-US)

P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P260 - Do not breathe vapors, mist, spray.  
P264 - Wash hands, forearms, and exposed areas thoroughly after handling.  
P272 - Contaminated work clothing must not be allowed out of the workplace.  
P273 - Avoid release to the environment.  
P280 - Wear eye protection, protective clothing, protective gloves.  
P302+P352 - If on skin: Wash with plenty of 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.  
P308+P313 - If exposed or concerned: Get medical advice/attention.  
P321 - Specific treatment (see Section 4 on this SDS).  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313 - If eye irritation persists: 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.

### 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   |
|--|----------------------|------|---|
| 2-Butanone, O,O',O''-(methylsilyldiyl)trioxime                                   | (CAS-No.) 22984-54-9 | < 15 | Eye Irrit. 2A, H319<br>Skin Sens. 1B, H317<br>STOT RE 2, H373   |
| Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica | (CAS-No.) 68909-20-6 | < 15 | Not classified  |
| N-[3-(Trimethoxysilyl)propyl]-1,2-ethanediamine                                  | (CAS-No.) 1760-24-3  | < 1  | Acute Tox. 4<br>(Inhalation:dust,mist), H332<br>Eye Dam. 1, H318<br>Skin Sens. 1, H317<br>Aquatic Acute 2, H401 |

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|                              |                    |        |  |
|------------------------------|--------------------|--------|--|
| Dibutyltin dilaurate         | (CAS-No.) 77-58-7  | < 0.4  | Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Skin Sens. 1, H317<br>Muta. 2, H341<br>Repr. 1B, H360<br>STOT SE 1, H370<br>STOT RE 1, H372<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |
| Octamethylcyclotetrasiloxane | (CAS-No.) 556-67-2 | < 0.25 | Flam. Liq. 3, H226<br>Repr. 2, H361<br>Aquatic Chronic 1, H410   |

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

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 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. 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 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical 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                    | Causes serious eye irritation. Skin sensitization. May damage fertility or the unborn child. May cause damage to organs (hematopoietic system) through prolonged or repeated exposure (oral). |
| 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  | Contact causes severe irritation with redness and swelling of the conjunctiva.  |
| Symptoms/Injuries After Ingestion    | Ingestion may cause adverse effects.  |
| Chronic Symptoms                     | May cause damage to organs (hematopoietic system) through prolonged or repeated exposure (oral). May damage fertility or the unborn child.  |

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### 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<sub>2</sub>), 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, CO<sub>2</sub>). Silicon oxides. Nitrogen oxides. Metal oxides. 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.

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.

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### 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 vapors, mist, 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     | 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 | 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).

|   |                         |  |
|---|-------------------------|--|
| Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica (68909-20-6) |                         |  |
| USA NIOSH   | NIOSH REL (TWA)         | 6 mg/m <sup>3</sup>  |
| USA OSHA  | OSHA PEL (TWA) [1]      | 6 mg/m <sup>3</sup>  |
| USA OSHA  | OSHA PEL (TWA) [2]      | 20 mppcf (80mg/m <sup>3</sup> /%SiO <sub>2</sub> )   |
| Octamethylcyclotetrasiloxane (556-67-2)   |                         |  |
| USA AIHA  | WEEL TWA                | 10 ppm   |
| Tin organic compounds   |                         |  |
| USA ACGIH   | ACGIH OEL TWA           | 0.1 mg/m <sup>3</sup>  |
| USA ACGIH   | ACGIH OEL STEL          | 0.2 mg/m <sup>3</sup>  |
| 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 <sup>3</sup> (except Cyhexatin)   |
| USA OSHA  | OSHA PEL (TWA) [1]      | 0.1 mg/m <sup>3</sup>  |

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### 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 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                        | Liquid            |
| Appearance                            | Black paste       |
| 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                         | 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                      | > 1               |
| Solubility                            | No data available |
| Partition Coefficient n-Octanol/Water | No data available |
| Viscosity                             | No data available |

### 9.2. Other Information

VOC Content < 1 %

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### 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, CO<sub>2</sub>). Silicon oxides. Nitrogen oxides. Metal 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 |

|  |              |
|--|--------------|
| 2-Butanone, O,O',O''-(methylsilylidyne)trioxime (22984-54-9) |              |
| LD50 Oral Rat  | 2463 mg/kg   |
| LD50 Dermal Rat  | > 2000 mg/kg |

|   |                          |
|---|--------------------------|
| N-[3-(Trimethoxysilyl)propyl]-1,2-ethanediamine (1760-24-3) |                          |
| LD50 Oral Rat   | 2295 mg/kg               |
| LD50 Dermal Rabbit  | > 2000 mg/kg (No deaths) |
| LC50 Inhalation Rat   | 1.49 – 2.44 mg/l/4h      |

|                                |            |
|--------------------------------|------------|
| Dibutyltin dilaurate (77-58-7) |            |
| LD50 Oral Rat                  | 2071 mg/kg |
| LD50 Dermal Rat                | > 2 g/kg   |

|   |                             |
|---|-----------------------------|
| 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     | Causes serious eye irritation.       |
| Respiratory or Skin Sensitization | May cause an allergic skin reaction. |
| Germ Cell Mutagenicity            | Not classified                       |
| Carcinogenicity                   | Not classified                       |

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|  |  |
|--|--|
| Reproductive Toxicity                              | May damage fertility or the unborn child.  |
| Specific Target Organ Toxicity (Single Exposure)   | Not classified   |
| Specific Target Organ Toxicity (Repeated Exposure) | May cause damage to organs (hematopoietic system) through prolonged or repeated exposure (oral).   |
| 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                | Contact causes severe irritation with redness and swelling of the conjunctiva.   |
| Symptoms/Injuries After Ingestion                  | Ingestion may cause adverse effects.   |
| Chronic Symptoms                                   | May cause damage to organs (hematopoietic system) through prolonged or repeated exposure (oral). May damage fertility or the unborn child. |

## SECTION 12: Ecological Information

### 12.1. Toxicity

Ecology - General

Harmful to aquatic life with long lasting effects.

|  |   |
|--|---|
| 2-Butanone, O,O',O''-(methylsilylidyne)trioxime (22984-54-9) |   |
| EC50 - Crustacea [1]   | 120 mg/l (Exposure time: 48h - Species: Daphnia magna)                    |
| N-[3-(Trimethoxysilyl)propyl]-1,2-ethanediamine (1760-24-3)  |   |
| LC50 Fish 1  | 597 mg/l (Species: Danio rerio)   |
| EC50 - Crustacea [1]   | 81 mg/l   |
| ErC50 (Algae)  | 8.8 mg/l (Exposure time: 72 h - Species: Pseudokirchneriella subcapitata) |
| NOEC Chronic Fish  | 344 mg/l  |
| NOEC Chronic Crustacea                                       | 35 mg/l   |
| NOEC Chronic Algae   | 3.1 mg/l (Pseudokirchnerella subcapitata Exposure time: 96h)              |
| Dibutyltin dilaurate (77-58-7)                               |   |
| EC50 - Crustacea [1]   | 0.463 mg/l (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-1505                        |   |
| Persistence and Degradability | May cause long-term adverse effects in the environment. |

### 12.3. Bioaccumulative Potential

|   |                  |
|---|------------------|
| R-1505  |                  |
| Bioaccumulative Potential                       | Not established. |
| Dibutyltin dilaurate (77-58-7)                  |                  |
| Partition coefficient n-octanol/water (Log Pow) | 4.44             |
| Octamethylcyclotetrasiloxane (556-67-2)         |                  |





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

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

N-[3-(Trimethoxysilyl)propyl]-1,2-ethanediamine (1760-24-3)

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

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

Dibutyltin dilaurate (77-58-7)

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

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

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

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

Tin organic compounds

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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 Pollutants - 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 - Emission Levels (ELs)  
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations  
U.S. - New York - Occupational Exposure Limits - TWAs  
U.S. - New York - Occupational Exposure Limits - Skin Designations  
U.S. - Michigan - Occupational Exposure Limits - 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  
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 - 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, Including Date of Preparation or Last Revision

Date of Preparation or Latest Revision 05/05/2024

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          |
| H227 | Combustible liquid                  |
| H315 | Causes skin irritation              |
| H317 | May cause an allergic skin reaction |
| H318 | Causes serious eye damage           |
| H319 | Causes serious eye irritation       |
| H332 | Harmful if inhaled                  |

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|      |   |
|------|---|
| H341 | Suspected of causing genetic defects                              |
| H360 | May damage fertility or the unborn child                          |
| H361 | Suspected of damaging fertility or the unborn child               |
| H370 | Causes damage to organs   |
| H372 | Causes damage to organs through prolonged or repeated exposure    |
| H373 | May cause damage to organs through prolonged or repeated exposure |
| H400 | Very toxic to aquatic life  |
| H401 | Toxic to aquatic life   |
| H402 | Harmful to aquatic life   |
| H410 | Very toxic to aquatic life with long lasting effects              |
| H412 | Harmful to aquatic life with long lasting effects                 |

NFPA Health Hazard

2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

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

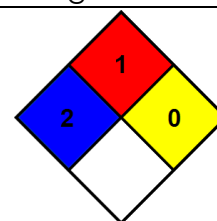
2 Moderate Hazard

\* 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

# R-1505

## Safety Data Sheet

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

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