

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No.

453/2010

Revision date: Date of issue: Version: 3.0 03/11/2015 08/08/2014

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form Mixture
Product Name R-2160 Part A

Synonyms High Temperature RTV Silicone Adhesive/Sealant

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Use of the substance/mixture As a high temperature adhesive/sealant. For professional use only.

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

NuSil Technology LLC 1050 Cindy Lane

Carpinteria, California 93013

USA

(805) 684-8780 ehs@nusil.com

www.nusil.com

1.4. Emergency telephone number

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

number Maritime)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Aquatic Chronic 2 H411

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

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)

CH209

Hazard statements (CLP) H411 - Toxic to aquatic life with long lasting effects

Precautionary statements (CLP) P273 - Avoid release to the environment

P391 - Collect spillage

P501 - Dispose of contents/container in accordance with local,

regional, national, and international regulations

2.3. Other Hazards

No additional information available

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SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Iron oxides	(CAS No) 1332-37-2 (EC no) 215-570-8	< 5	Not classified
Zinc oxide	(CAS No) 1314-13-2 (EC no) 215-222-5 (EC index no) 030-013-00-7	< 5	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Carbon	(CAS No) 7440-44-0 (EC no) 231-153-3	< 5	Not classified

Full text of H-statements: 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 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 breathing difficulty persists.

First-aid measures after skin Rinse immediately with plenty of water. Remove contaminated

contact clothing. Wash contaminated clothing before reuse. Obtain medical

attention if irritation develops or persists.

First-aid measures after eye

contact

Rinse cautiously 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 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

Symptoms/injuries after skin

contact

May cause respiratory irritation.

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: Firefighting 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.

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.

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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.

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

(vapour, mist, spray).

6.1.1. For non-emergency personnel

Emergency procedures Evacuate unnecessary personnel.

6.1.2.For emergency responders

Protective equipment Equip cleanup crew with proper protection.

Emergency procedures Upon arrival at the scene a first responder is expected to protect

oneself and the public, secure the area, and call for the assistance

of trained personnel as conditions permit.

6.2. Environmental precautions

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

6.3. Methods and material for 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. Spills should

be contained with mechanical barriers. Transfer spilled material to a suitable container for disposal. Contact competent authorities after

a spill.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

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 any 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)

As a high temperature adhesive/sealant. For professional use only.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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Iron oxides (1332-37-2)		
Bulgaria	OEL TWA (mg/m³)	5,0 mg/m³ 6,0 mg/m³ (containing <2% free Crystalline silicon dioxide in respirable fraction-dust, inhalable fraction)
USA ACGIH	ACGIH TWA (mg/m³)	5 mg/m³
Czech Republic	Expoziční limity (PEL) (mg/m³)	10 mg/m³ (dust)
Slovakia	NPHV (priemerná) (mg/m³)	4 mg/m³ (total aerosol)
Zinc oxide (1314-13-2)		
Austria	MAK (mg/m³)	5 mg/m³ (respirable fraction, smoke)
Belgium	Limit value (mg/m³)	10 mg/m³ (dust) 5 mg/m³ (fume) 5 mg/m³ (aerosol and vapor)
Belgium	Short time value (mg/m³)	10 mg/m³ (fume) 10 mg/m³ (aerosol and vapor)
Bulgaria	OEL TWA (mg/m³)	5,0 mg/m³
Bulgaria	OEL STEL (mg/m³)	10,0 mg/m³
Croatia	GVI (granična vrijednost izloženosti) (mg/m³)	5 mg/m³
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m³)	10 mg/m³
France	VME (mg/m³)	5 mg/m³ (fume) 10 mg/m³ (dust)
Greece	OEL TWA (mg/m³)	5 mg/m³ (fume)
Greece	OEL STEL (mg/m³)	10 mg/m³ (fume)
USA ACGIH	ACGIH TWA (mg/m³)	2 mg/m³ (respirable fraction)
USA ACGIH	ACGIH STEL (mg/m³)	10 mg/m³ (respirable fraction)
Latvia	OEL TWA (mg/m³)	0,5 mg/m³
Spain	VLA-ED (mg/m³)	2 mg/m³ (respirable fraction)
Spain	VLA-EC (mg/m³)	10 mg/m³
Switzerland	VLE (mg/m³)	3 mg/m³ (respirable dust, smoke)
Switzerland	VME (mg/m³)	3 mg/m³ (respirable dust, smoke)
Czech Republic	Expoziční limity (PEL) (mg/m³)	2 mg/m³
Denmark	Grænseværdie (langvarig)	4 mg/m³
	(mg/m³)	4 mg/m³ (fume)
Estonia	OEL TWA (mg/m³)	5 mg/m³
Finland	HTP-arvo (8h) (mg/m³)	2 mg/m³ (fume)
Finland	HTP-arvo (15 min)	10 mg/m³ (fume)
Hungary	AK-érték	5 mg/m³ (respirable dust)
Hungary	CK-érték	20 mg/m³ (respirable dust)
Ireland	OEL (8 hours ref) (mg/m³)	2 mg/m³ (fume)
Ireland	OEL (15 min ref) (mg/m3)	10 mg/m³ (fume)
Lithuania	IPRV (mg/m³)	5 mg/m³
Norway	Grenseverdier (AN) (mg/m³)	5 mg/m³
Norway	Grenseverdier (Korttidsverdi) (mg/m3)	10 mg/m³
Poland	NDS (mg/m³)	5 mg/m³ (inhalable fraction)
Poland	NDSCh (mg/m³)	10 mg/m³ (inhalable fraction)
Romania	OEL TWA (mg/m³)	5 mg/m³ (fume)

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Zinc oxide (1314-13-2)			
Romania OEL STEL (mg/m³)		10 mg/m³ (fume)	
Slovakia	NPHV (priemerná) (mg/m³)	1 mg/m³ (fume)	
Slovakia	NPHV (Hraničná) (mg/m³)	1 mg/m³	
Slovenia	OEL TWA (mg/m³)	5 mg/m³ (respirable fraction, fume)	
Slovenia	OEL STEL (mg/m³)	20 mg/m³ (respirable fraction, fume)	
Sweden	nivågränsvärde (NVG) (mg/m³)	5 mg/m³ (total dust)	
Portugal OEL TWA (mg/m³)		2 mg/m³ (respirable fraction)	
Portugal	OEL STEL (mg/m³)	10 mg/m³ (respirable fraction)	
Carbon (7440-44-0)			
Austria	MAK (mg/m³)	5 mg/m³ (alveolar dust with <1% Quartz, respirable fraction)	
Austria	MAK Short time value (mg/m³)	10 mg/m³ (alveolar dust with <1% quartz, respirable fraction)	
Poland	NDS (mg/m³)	4,0 mg/m³ (natural-inhalable fraction) 1,0 mg/m³ (natural-respirable fraction)	

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

6,0 mg/m³ (synthetic-inhalable fraction)

all national/local regulations are observed.

Protective goggles. Gloves. Protective clothing. Personal protective equipment







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.

If exposure limits are exceeded or irritation is experienced, approved Respiratory protection

respiratory protection should be worn.

Environmental exposure controls

Consumer exposure controls

Other information

Do not allow the product to be released into the environment.

Do not eat, drink or smoke during use.

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 : Dark brown to black thick liquid

Odour : Odorless

Odour threshold : No data available На : No data available Relative evaporation rate (butylacetate=1) : No data available : No data available Melting point Freezing point : No data available Boiling point : No data available : > 149 °C (300 °F) Flash point Auto-ignition temperature : No data available : No data available Decomposition temperature

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Flammability (solid, gas) : No data available Vapour pressure : No data available Relative vapour density at 20 °C : No data available Relative Density : 1,18 (Water=1) Solubility : Insoluble in water. Partition coefficient: n-octanol/water : No data available Viscosity, kinematic : No data available Viscosity, dynamic : No data available Explosive properties : No data available Oxidising properties : No data available **Explosive limits** : Not applicable

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. Ignition sources. Incompatible materials.

10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizers.

10.6. Hazardous decomposition products

Carbon oxides (CO, CO₂). Silicon oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity Not classified

Zinc oxide (1314-13-2)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 2000 mg/kg
Carbon (7440-44-0)	
LD50 oral rat	> 10000 mg/kg

Skin corrosion/irritation
Serious eye damage/irritation
Respiratory or skin sensitisation
Germ cell mutagenicity
Carcinogenicity
Reproductive toxicity
Not classified
Not classified
Not classified
Not classified

Specific target organ toxicity (single exposure) : Not classified Specific target organ toxicity (repeated : Not classified

exposure)

Aspiration hazard Not classified

Potential adverse human health

effects and symptoms

Based on available data, the classification criteria are not met.

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SECTION 12: Ecological information

12.1. Toxicity

Ecology - general Toxic to aquatic life with long lasting effects.

Zinc oxide (1314-13-2)	
LC50 fish 1	780 µg/l (Exposure time: 96 h - Species: Pimephales promelas)
EC50 Daphnia 1	0,122 mg/l
NOEC chronic fish	0,026 mg/l (Species: Jordanella floridae)

12.2. Persistence and degradability

12.2. I classeffee and degradability		
R-2160 Part A		
Persistence and degradability	Not established.	

12.3. Bioaccumulative potential

R-2160 Part A	
Bioaccumulative potential	Not established.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. 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

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

(ADR)

UN-No. (ADR) 3082

14.2. UN proper shipping name

Proper Shipping Name (ADR) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Transport document description UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(CONTAINS; Zinc oxide), 9, III, (E)

14.3. Transport hazard class(es)

Class (ADR)

Danger labels (ADR)



: 111

14.4. Packing group

Packing group (ADR)

14.5. Environmental hazards

Dangerous for the environment



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Other information No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport

Hazard identification number 90

(Kemler No.)

Classification code (ADR) M6

Orange plates

90 3082

Special provisions (ADR) 274, 335, 601, 375

Transport category (ADR) 3
Tunnel restriction code (ADR) E
Limited quantities (ADR) 51
Excepted quantities (ADR) E1
EAC code •37

14.6.2. Transport by sea

EmS-No. (1) F-A MFAG-No : 171 EmS-No. (2) : S-F

14.6.3. Air transport

No additional information available

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC content < 1 % (by weight)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

Section	Section Header	Change	Date Changed
1.3	Details of the supplier of the safety data sheet	Modified	29/07/2015
2	Hazards identification	Removed EUH208. Removed DSD/DPD information.	29/07/2015
3	Composition/information on ingredients	Removed not classified components and components below cutoffs. Removed DSD/DPD information.	29/07/2015
3	Composition/information on ingredients	Modified composition.	03/11/2015
4, 5, 6, 7, 8, 10,	Minor wording changes to whole sections.	Modified	29/07/2015

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11			
15.1.1	EU-Regulations	Modified	29/07/2015

Revision date 03/11/2015

Data sources According to Regulation (EC) No. 1907/2006 (REACH) with its

amendment Regulation (EC) No. 453/2010

Full text of H- and EUH-statements:

Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects

Nusil EU GHS SDS

We believe that the information contained herein is current as of the date of this Safety Data Sheet, and is offered in good faith. Since the use of this information and of these opinions and the conditions of the use of the product are not within the control of NuSil Technology, it is the user's obligation to determine the conditions of safe use of the product.

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Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

 Revision date:
 Date of issue:
 Version: 3.0

 03/11/2015
 30/12/2013

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form Mixture
Product Name R-2160 Part B

Synonyms High Temperature RTV Silicone Adhesive/Sealant

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Use of the substance/mixture

As a high temperature adhesive/sealant. For professional use only.

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

NuSil Technology LLC 1050 Cindy Lane

Carpinteria, California 93013

USA

(805) 684-8780 ehs@nusil.com www.nusil.com

1.4. Emergency telephone number

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

number Maritime)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin Irrit. 2 H315 Eye Irrit. 2 H319 STOT SE 3 H335

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

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)

Signal word (CLP) : Warning

Hazard statements (CLP) H315 - Causes skin irritation

H319 - Causes serious eye irritation H335 - May cause respiratory irritation

Precautionary statements (CLP) P261 - Avoid breathing vapors, mist, or spray.

P264 - Wash hands, forearms, and exposed areas thoroughly after

handling.

P271 - Use only outdoors or in a well-ventilated area.

P280 - Wear eye protection, face protection.

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P302+P352 - IF ON SKIN: Wash with plenty of water.

P304+P340 - IF INHALED: Remove person to fresh air and keep

comfortable for breathing.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 - Call a POISON CENTER or doctor if you feel unwell. P321 - Specific treatment (see section 4 on this SDS).

P332+P313 - If skin irritation occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse.

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

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 with pre-existing eye, skin, or

respiratory conditions.

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Siloxanes and Silicones, dimethyl, methyl hydrogen	(CAS No) 68037-59-2	30 - 40	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335

Full text of H-statements: 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. Keep at rest and in a position comfortable for breathing. If you

feel unwell, seek medical advice.

First-aid measures after skin

contact

Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Wash contaminated clothing before reuse.

Obtain medical attention if irritation develops or persists.

First-aid measures after eye

contact

Rinse cautiously 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. Immediately call a POISON

CENTER or doctor/physician.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries Irritation to eyes, skin and respiratory tract.

Symptoms/injuries after inhalation May cause respiratory irritation.

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Symptoms/injuries after skin

contact

Causes skin irritation.

Symptoms/injuries after eye

contact

Causes eye irritation.

Symptoms/injuries after ingestion Ingestion is likely to be harmful or have adverse effects. Chronic symptoms

Repeated or prolonged skin contact may cause dermatitis and

defatting.

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: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO₂). 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 or mixture

Fire hazard Combustible liquid.

Explosion hazard Heat may build pressure, rupturing closed containers, spreading fire

and increasing risk of burns and injuries.

May react with strong oxidizers, increasing risk of fire or explosion. Reactivity

5.3. Advice for firefighters

Precautionary measures fire Exercise caution when fighting any chemical fire. Under fire

conditions, hazardous fumes will be present.

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

> major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. Do not allow run-off from firefighting to

enter drains or water courses.

Do not enter fire area without proper protective equipment, Protection during firefighting

including respiratory protection.

Refer to Section 9 for flammability properties. Other information

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures Avoid all contact with skin, eyes, or clothing. Keep away from heat,

sparks, open flames, hot surfaces. - No smoking.

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.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Absorb and/or contain spill with inert material, then place in suitable For containment

container. Do not take up in combustible material such as: saw dust

or cellulosic material.

Use only non-sparking tools. Clean up spills immediately and dispose Methods for cleaning up

of waste safely.

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6.4. Reference to other sections

See heading 8, Exposure Controls and Personal Protection. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling Provide good ventilation in process area to prevent formation of

vapour.

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 again when

leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions Store in a dry, cool and well-ventilated place. Keep container

closed when not in use. Keep in fireproof place.

Incompatible products Strong acids. Strong oxidizers. Strong bases.

7.3. Specific end use(s)

As a high temperature adhesive/sealant. For professional use only.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

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. Gas detectors should be used when flammable gases/vapours may be released.

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

ventilation: wear respiratory protection.









Hand protection Wear chemically resistant protective gloves.

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.

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 : Brown
Odour : Odorless

Odour threshold : No data available pH : No data available Relative evaporation rate (butylacetate=1) : No data available Melting point : No data available Freezing point : No data available Boiling point : No data available : No data available

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: > 60 °C (140 °F) Flash point Auto-ignition temperature : No data available Decomposition temperature : No data available Flammability (solid, gas) : No data available Vapour pressure : No data available Relative vapour density at 20 °C : No data available Relative Density : 1,18 (Water=1) Solubility : No data available Partition coefficient: n-octanol/water : No data available Viscosity, kinematic : No data available Viscosity, dynamic : No data available Explosive properties : No data available : No data available Oxidising properties **Explosive limits** : Not applicable

9.2. Other information

VOC content < 1 %

SECTION 10: Stability and reactivity

10.1. Reactivity

May react with strong oxidizers, increasing risk of fire or explosion.

10.2. Chemical stability

Combustible liquid.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Sparks, heat, open flame and other sources of ignition.

10.5. Incompatible materials

Strong acids. Strong oxidizers. Strong bases.

10.6. Hazardous decomposition products

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. May produce explosive hydrogen gas on contact with incompatibilities or upon thermal decomposition.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity Not classified

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation Causes serious eye irritation.

Respiratory or skin sensitisation
Germ cell mutagenicity
Carcinogenicity
Reproductive toxicity
Not classified
Not classified
Not classified

Specific target organ toxicity (single exposure) : May cause respiratory irritation.

Specific target organ toxicity (repeated : Not classified

exposure)

Aspiration hazard Not classified

Potential adverse human health Based on available data, the classification criteria are not met.

effects and symptoms

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SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

	···· <i>)</i>
R-2160 Part B	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

12101 Blockboothiolani e pototina.		
R-2160 Part B		
Bioaccumulative potential	Not established.	

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. 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

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Other information No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport

No additional information available

14.6.2. Transport by sea

No additional information available

14.6.3. Air transport

No additional information available

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

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SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances VOC content < 1%

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

Section	Section Header	Change	Date Changed
1.3	Details of the supplier of the safety data sheet	Modified	29/07/2015
2	Hazards identification	Removed DSD/DPD information.	29/07/2015
2	Hazards identification	Modified product classification.	03/11/2015
3	Composition/information on ingredients	New components replaced previous components. Removed not classified components and components below cutoffs. Removed DSD/DPD information.	29/07/2015
3	Composition/information on ingredients	Modified composition.	03/11/2015
5	Firefighting measures	Modified	03/11/2015
10	Stability and reactivity	Modified	03/11/2015
14	Transport information	Removed	03/11/2015
15.1.1	EU-Regulations	Modified	29/07/2015

Revision date 03/11/2015

Data sources According to Regulation (EC) No. 1907/2006 (REACH) with its

amendment Regulation (EU) 2015/830

Full text of H- and EUH-statements:

CALCITI GIRG ESTI STATEMENTS.		
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	
H315	Causes skin irritation	
H319	Causes serious eye irritation	
H335	May cause respiratory irritation	

Nusil EU GHS SDS

We believe that the information contained herein is current as of the date of this Safety Data Sheet, and is offered in good faith. Since the use of this information and of these opinions and the conditions of the use of the product are not within the control of NuSil Technology, it is the user's obligation to determine the conditions of safe use of the product.

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