

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

1.1. Product identifier

Product form : Mixture
 Product name. : Si-COAT@570[™] RTV Silicone High Voltage Insulator Coating

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

1.2.1. Relevant identified uses

Use of the substance/preparation : Coating for protection of high voltage insulators against the negative effects of moisture and contamination

1.2.2. Uses advised against

No uses advised against identified.

1.3. Details of the supplier of the safety data sheet

Only representative:
 INTERTEK France
 Etablissement de Chalon Sur Saône
 Espaces Entreprises
 Route de Demigny
 71102 CHALON SUR SAONE France
 Phone: +33 385 99 12 74
 E-mail: iasf.Reach@intertek.com

Manufacturer:
 CSL Silicones Inc.
 144 Woodlawn Road West
 Guelph, ON, N1H 1B5
 Canada
 Phone: +1 519 836 9044
 Fax: +1 519 836 9069

1.4. Emergency telephone number

Emergency number : +1 519 836 9044 (8 AM- 5 PM EST, Monday- Friday)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flam. Liq. 3 H226
 Skin Irrit. 2 H315
 Eye Irrit. 2 H319
 Skin Sens. 1 H317
 STOT SE 3 H336
 Aquatic Chronic 2 H411

Full text of H-phrases: see section 16

Classification according to Directive 67/548/EEC or 1999/45/EC

R10
 Xi; R43
 Xi; 38
 N; R51/53

Full text of R-phrases: 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) :



GHS02

GHS07

GHS09

Signal word (CLP) : Warning

Hazard statements (CLP) : H226 - Flammable liquid and vapour

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H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H336 - May cause drowsiness or dizziness
H411 - Toxic to aquatic life with long lasting effects

Precautionary statements (CLP)

: P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking.
P261 - Avoid breathing mist, spray, vapours.
P280 - Wear eye protection, protective clothing, protective gloves.
P302+P352 - IF ON SKIN: Wash with plenty of soap and water
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P501 - Dispose of contents/container to hazardous or special waste collection point.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH, annex XIII.

This substance/mixture does not meet the vPvB criteria of REACH, annex XIII.

other hazards which do not result in classification

: Petroleum Naphtha is released into the air during drying and curing process. Methyl Ethyl Ketoxime (MEKO) is a curing by-product that is released when the coating comes in contact with humid air.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Solvent naphtha, petroleum, medium aliphatic	(CAS No.) 64742-88-7 (EC no) 265-191-7 (EC index no) 649-405-00-X	20 - 50	Xn; R65 Xi; R38 N; R51/53 R10
Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica	(CAS No.) 68909-20-6 (EC no) 272-697-1	1 - 5	Xi; R36/38
2-Butanone, O,O',O''-(methylsilyldi)trioxime	(CAS No.) 22984-54-9 (EC no) 245-366-4	1 - 5	Xi; R43 Xi; R36/38
N-[3-(Trimethoxysilyl)propyl]-1,2-ethanediamine	(CAS No.) 1760-24-3 (EC no) 217-164-6	1 - 5	Xi; R36/37 R53
Octamethylcyclotetrasiloxane	(CAS No.) 556-67-2 (EC no) 209-136-7 (EC index no) 014-018-00-1	0.2 - 2	Repr.Cat.3; R62 R53

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Solvent naphtha, petroleum, medium aliphatic	(CAS No.) 64742-88-7 (EC no) 265-191-7 (EC index no) 649-405-00-X	20 - 50	Flam. Liq. 3, H226 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica	(CAS No.) 68909-20-6 (EC no) 272-697-1	1 - 5	Skin Irrit. 2, H315 Eye Irrit. 2, H319
2-Butanone, O,O',O''-(methylsilyldi)trioxime	(CAS No.) 22984-54-9 (EC no) 245-366-4	1 - 5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
N-[3-(Trimethoxysilyl)propyl]-1,2-ethanediamine	(CAS No.) 1760-24-3 (EC no) 217-164-6	1 - 5	Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 4, H413
Octamethylcyclotetrasiloxane	(CAS No.) 556-67-2 (EC no) 209-136-7 (EC index no) 014-018-00-1	0.2 - 2	Flam. Liq. 3, H226 Repr. 2, H361f Aquatic Chronic 4, H413

Full text of R-, H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general

: Put victim at rest, cover with a blanket and keep warm. Consult a doctor/medical service if you feel unwell. Only a physician should remove solid or plastic material in the eye.

First-aid measures after inhalation

: Move to fresh air in case of accidental inhalation. If not breathing, give artificial respiration, preferably mouth to mouth. In case of breathing difficulties administer oxygen. Seek medical advice.

First-aid measures after skin contact

: Remove contaminated clothing immediately. Carefully wash skin with soap and water or an accepted skin cleaning product. Obtain medical attention if irritation persists. Wash contaminated clothing prior to re-use.

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- First-aid measures after eye contact : Do not attempt to physically remove solids or gums from eye. Rinse immediately and plentifully with water, also under the eyelids, for at least 20 minutes. Seek medical attention immediately.
- First-aid measures after ingestion : Never give anything by mouth to an unconscious person. Do not induce vomiting. Give water to drink if victim completely conscious/alert. If vomiting occurs, have person lean forward. Repeat the administration of water/milk. Seek medical attention immediately.

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

- Symptoms/injuries after inhalation : In case of repeated or prolonged exposure : Depression of the central nervous system, headaches, dizziness, drowsiness, loss of co-ordination.
- Symptoms/injuries after skin contact : Direct contact with vapor or liquid may cause defatting, drying and cracking of the skin. Prolonged and repeated contact may cause dermatitis.
- Symptoms/injuries after eye contact : Liquid acts as severe irritant upon contact; may cause corneal burns and conjunctivitis. Vapor acts as an irritant; may cause corneal damage and photophobia (light sensitivity).
- Symptoms/injuries after ingestion : Depression of the central nervous system, headaches, dizziness, drowsiness, loss of co-ordination.
- Chronic symptoms : Curing byproduct methylethylketoxime (MEKO);. Male rats and mice exposed to MEKO throughout their lifetime developed liver tumors. Many commonly used chemicals cause liver tumors in rats and mice. The relevance to humans is uncertain.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media: : carbon dioxide (CO₂), dry chemical powder, foam. Water spray.
- Unsuitable extinguishing media : None known.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : On combustion forms: Carbon dioxide. Formaldehyde. Carbon monoxide. Silicon dioxide. Nitrogen oxides (NO_x).
- Reactivity : Stable.

5.3. Advice for firefighters

- Firefighting instructions : Do not use a water jet since it may cause the fire to spread. Shut off fuel supply to fire if possible.
- Protective equipment for firefighters : Fully enclosed impervious protective suit with integral or tight-fitting gloves, boots, self-contained or supplied air respirator must be worn.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Protective equipment : Wear protective clothing as described in Section 8 of this safety data sheet.
- Emergency procedures : Eliminate all ignition sources if safe to do so. Ventilate affected area. Small quantities of liquid spill: neutralize with lime sodium bicarbonate soda (sodium carbonate) or soda ash. Scrape up liquid coating with cardboard or rag and place in a closed container.

6.1.2. For emergency responders

- Protective equipment : Wear protective clothing as described in Section 8 of this safety data sheet.
- Emergency procedures : Evacuate unnecessary personnel. Eliminate leaks immediately. Eliminate every possible source of ignition. Ventilate affected area. Small quantities of liquid spill: neutralize with sodium bicarbonate soda (sodium carbonate) lime or soda ash. Scrape up liquid coating with cardboard or rag and place in a closed container.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

- For containment : Collect in closed containers for disposal.
- Methods for cleaning up : Ventilate affected area. Small quantities of liquid spill: neutralize with lime sodium bicarbonate soda (sodium carbonate) or soda ash. Scrape up liquid coating with cardboard or rag and place in a closed container. Collect in closed containers for disposal.

6.4. Reference to other sections

Refer to sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Avoid contact with skin and eyes. Wash thoroughly after handling. Avoid breathing mist or vapor. Use only in well-ventilated areas. Keep container closed when not in use.

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Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Wash contaminated clothing prior to re-use. Remove all contaminated clothing and footwear. Wash hands thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage condition(s) : Store in dry, cool, well-ventilated area. Keep container tightly closed.
Incompatible materials : Strong oxidizing agents. Strong acid. Strong bases. Concentrated acids or bases cause degradation of polymer.
Storage temperature : 5 - 32 °C
Storage area : Store in dry, cool, well-ventilated area.

7.3. Specific end use(s)

refer to section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica (68909-20-6)		
USA ACGIH	ACGIH TWA (mg/m ³)	10 mg/m ³
Solvent naphtha, petroleum, medium aliphatic (64742-88-7)		
Switzerland	VME (mg/m ³)	525 mg/m ³
Switzerland	VME (ppm)	100 ppm
Sweden	nivågränsvärde (NVG) (mg/m ³)	180 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	50 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	250 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	75 ppm

8.2. Exposure controls

Appropriate engineering controls : Provide local exhaust or general room ventilation to minimize vapour concentrations.
Personal protective equipment : Protective goggles. Gloves. Protective clothing. Insufficient ventilation: wear respiratory protection.



Materials for protective clothing : Most rubbers and plastics are adequate.
Hand protection : Protective gloves.
Eye protection : Wear chemical splash goggle.
Skin and body protection : Wear suitable protective clothing or Rubber apron. Use plastic or rubber apron to protect clothing, if needed.
Respiratory protection : An approved respirator with N95 (dust, fume, mist) cartridges may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits, or when symptoms have been observed that are indicative of overexposure.
Other information : Methyl Ethyl Ketoxime (MEKO) is a curing by-product that is released when the coating comes in contact with humid air. It is recommended to provide adequate ventilation to keep concentration below 3 ppm. TWA: 3 ppm; STEL: 10 ppm; Workplace Environmental Exposure Level AIHA: 10 ppm.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Slightly viscous liquid.
Colour : No data available
odour : Hydrocarbon-like.
Odour threshold : Not applicable ppm
pH : No data available
Relative evaporation rate (butylacetate=1) : Not applicable
Melting point : No data available
Solidification point : No data available
Boiling point : Not applicable
Flash point : 38 °C PMCC (ASTM D-93)

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Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: Negligible at 25°C
Relative vapour density at 20 °C	: not applicable
Relative density	: 1.13 (water =1)
Solubility	: insoluble in water. soluble in most organic solvents.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: 1212.9 cSt
Viscosity, dynamic	: No data available
Explosive properties	: Not explosive as none of the components is classified as explosive or oxidizing.
Oxidising properties	: not oxidizing. None of the components is classified for oxidizing properties.
Explosive limits	: Not applicable

9.2. Other information

VOC content : 352.27 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable.

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

Strong oxidizing agents. Concentrated acids or bases cause degradation of polymer. Boiling water may soften and weaken material.

10.6. Hazardous decomposition products

On thermal combustion form: Carbon monoxide. Carbon dioxide. Silicon dioxide. Nitrogen oxides (NOx). A component of this product can generate formaldehyde at approximately 150°C and above in the atmosphere containing oxygen. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant and potential carcinogen.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

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

LD50 oral rat	7460 µl/kg
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Solvent naphtha, petroleum, medium aliphatic (64742-88-7)

LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	3000 mg/kg
LC50 inhalation rat (mg/l)	> 5.28 mg/l (Exposure time: 4 h)

Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: No information is available and no adverse mutagenic effects are anticipated (No classification for mutagenicity as none of the components is classified for mutagenicity)
Carcinogenicity	: The ingredients of this product are not listed as carcinogens by the National Toxicology Program, and have not been evaluated by the International Agency for Research on Cancer or the American Conference of Government Industrial Hygienists (No classification for carcinogenicity as none of the components is classified for carcinogenicity)
Reproductive toxicity	: Octamethylcyclotetrasiloxane (in concentration of 500 to 700 ppm) has shown reproductive effects in laboratory animals. No available information of adverse reproductive effects of other ingredients of this product. Since this is present at concentration below the concentration limit (< 3%) the mixture is not to be classified as toxic for reproduction.
Specific target organ toxicity (single exposure)	: May cause drowsiness or dizziness.

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Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Solvent naphtha, petroleum, medium aliphatic (64742-88-7)

LC50 fishes 1	> 2 mg/l 96 hours
EC50 Daphnia 1	> 1.4 mg/l 48 hours
ErC50 (algae)	> 1 mg/l 72 hours

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

Solvent naphtha, petroleum, medium aliphatic (64742-88-7)

BCF fishes 1	(bioaccumulation expected)
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12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

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This substance/mixture does not meet the PBT criteria of REACH, annex XIII.

This substance/mixture does not meet the vPvB criteria of REACH, annex XIII.

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Comply with applicable local, national and international regulation.
Sewage disposal recommendations : Do not dispose of waste uncured coating with normal garbage or to sewer.
Waste disposal recommendations : Product wastes can often be incinerated in approved facilities. Solid waste may be sent to a designated landfill site.
Additional information : Do not dispose of waste uncured coating with normal garbage or to sewer.

SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

14.1. UN number

UN-No. : 1139

14.2. UN proper shipping name

Proper shipping name : COATING SOLUTION
Transport document description : UN 1139 COATING SOLUTION, 3, III, (D/E)

14.3. Transport hazard class(es)

Class (UN) : 3
Hazard labels (UN) : 3



14.4. Packing group

Packing group (UN) : III

14.5. Environmental hazards

Dangerous for the environment :



Other information : No supplementary information available.

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14.6. Special precautions for user

14.6.1. Overland transport

Hazard identification number (Kemler No.) : 30
Classification code : F1
Orange plates :



Tunnel restriction code : D/E
Limited quantities (ADR) : 5L
Excepted quantities (ADR) : E1
EAC code : •3Y

14.6.2. Transport by sea

Not applicable

14.6.3. Air transport

Not applicable

14.7. Transport in bulk according to Annex II of MARPOL 73/78 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

No Annex XVII restrictions

Contains no REACH candidate substance

VOC content : 352.27 g/l

Other regulations, restrictions and prohibition regulations : Compliance with following regulations: Regulation (EC) 1907/2006 as amended. Regulation (EC) 1272/2008 as amended. Directive 1999/45/EC as amended. Directive 67/548/EEC as amended.

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

CSA has not been established

SECTION 16: Other information

Indication of changes : All requirements according to Regulation (EC) No 453/2010 were applied.

Sources of Key data : MSDS.

Abbreviations and acronyms : ATE - acute toxicity estimate. CAS - Chemical Abstracts Service. CLP - Classification, Labelling and Packaging. CSR - Chemical Safety Report. EC - European Community. EEC - European Economic Community. MSDS - Material Safety Data Sheet. Overland transport (ADR). PBT - Persistent, Bioaccumulative and Toxic substance. PEL- Permissible Exposure Level. REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals. SDS - Safety Data Sheet . STEL- Short-Term Exposure Limit . TLV- Threshold Limit Value. TWA- Time Weighted Average. vPvB - Very Persistent and Very Bioaccumulative.

Full text of R-, H- and EUH-phrases:

Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Aquatic Chronic 4	Hazardous to the aquatic environment - Chronic Hazard Category 4
Asp. Tox. 1	Aspiration hazard Category 1
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Flam. Liq. 3	flammable liquids Category 3
Repr. 2	Reproductive toxicity Category 2
Skin Irrit. 2	skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitisation Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H226	Flammable liquid and vapour
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H335	May cause respiratory irritation

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H336	May cause drowsiness or dizziness
H361f	Suspected of damaging fertility.
H411	Toxic to aquatic life with long lasting effects
H413	May cause long lasting harmful effects to aquatic life
R10	Flammable.
R36/37	Irritating to eyes and respiratory system.
R36/38	Irritating to eyes and skin.
R38	Irritating to skin.
R43	May cause sensitisation by skin contact.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R53	May cause long-term adverse effects in the aquatic environment.
R62	Possible risk of impaired fertility.
R65	Harmful: may cause lung damage if swallowed.
N	Dangerous for the environment
Xi	Irritant
Xn	Harmful

SDS EU (REACH Annex II)

The information given in this sheet is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this document without first obtaining written confirmation from CSL Silicones Inc. as to the suitability of the product for the intended purpose does so at his/her own risk. The information contained herein has been prepared in good faith to comply with applicable federal and provincial (state) law(s). However, no warranty of any kind is given or implied and CSL Silicones Inc. will not be responsible for any damages, losses or injuries that may result from the use of any information contained herein. While CSL endeavors to ensure all advice it gives about the product (whether in this document or otherwise) is correct, we have no control over either the quality or condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless CSL specifically agrees in writing to do so, it does not accept any liability whatsoever or howsoever arising from the performance of the product, or for any consequential loss or damage arising out of the use of the product. Any warranty, if given, or specific Terms & Conditions of Sale are contained in CSL's Terms & Conditions of Sale, a copy of which can be obtained upon request. The information contained herein is liable to modification from time-to-time in light of experience and CSL's policy of continuous product improvement.

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