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### **SECTION 1: IDENTIFICATION**

Product identifier used on the label RTV Primer No. 1

Other means of identification

Chemical Name Mixture
CAS No. Mixture
EINECS No. Mixture

Recommended use of the chemical and restrictions

on use

Recommended use PC14 Metal surface treatment products, including galvanic and electroplating

products

Restrictions on use None known.

Details of the supplier of the safety data sheet

Supplier VISHAY MEASUREMENTS GROUP, INC.

Address of Supplier Post Office Box 27777
Raleigh, NC 27611

USA

 Telephone
 +1 919-365-3800

 Fax
 +1 919-365-3945

 E-Mail (competent person)
 mm.us@vishaypg.com

Emergency telephone number 1-800-424-9300 CHEMTREC (24 hours)

### SECTION 2: HAZARD(S) IDENTIFICATION

Classification of the substance or mixture in accordance with paragraph (d) of 29 CFR 1910.1200

Physical hazards Flammable Liquid, Category 2
Health hazards Aspiration hazard, Category 1
Skin corrosion/irritation, Category 2

Eye Irritation, Category 2

Specific target organ toxicity — single exposure, Category 3

Reproductive toxicity, Category 2

Specific target organ toxicity — repeated exposure, Category 2

Not classified

Hazard Symbol

Environmental hazards







Signal Word(s) DANGER

Hazard Statement(s) Highly flammable liquid and vapour.

May be fatal if swallowed and enters airways.

Causes skin irritation.
Causes serious eye irritation.
May cause respiratory irritation.
May cause drowsiness or dizziness.
Suspected of damaging the unborn child.

May cause damage to organs (Central Nervous System) through prolonged or

repeated exposure.

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Precautionary Statement(s)

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

Keep container tightly closed.

Do not breathe vapour.

Wash hands and exposed skin thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Do NOT induce vomiting.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER/doctor if you feel unwell.

IF ON SKIN: Wash with plenty of water.

If skin irritation occurs, get medical advice/attention.

 $\ensuremath{\mathsf{IF}}$  IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention. IF exposed or concerned: Get medical advice/attention.

Store locked up.

Dispose of contents in accordance with local, state or national legislation.

Other hazards None known.

Percent of the mixture consists of ingredient(s) of unknown acute toxicity:

0%

#### **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Substances Not applicable

Mixtures Substances in preparations / mixtures

Chemical identity of the substance	%W/W	CAS No.	EC No.	Hazard classification
Acetone	< 100	67-64-1	200-662-2	Flammable Liquid, Category 2 Eye Irritation, Category 2 Specific target organ toxicity — single exposure, Category 3 (Narcotic Effects)
Toluene	10 - 30	108-88-3	203-625-9	Flammable Liquid, Category 2 Aspiration hazard, Category 1 Skin corrosion/irritation, Category 2 Specific target organ toxicity — repeated exposure, Category 2 (Affected Organs: Central Nervous System) Specific target organ toxicity — single exposure, Category 3 (Narcotic Effects) Reproductive toxicity, Category 2
Tetraethylorthosilicate	1-5	78-10-4	201-083-8	Flammable Liquid, Category 3  Eye Irritation, Category 2  Acute toxicity, Category 4 (Inhalation)  Specific target organ toxicity — single exposure, Category 3 (Respiratory tract irritation)
Methyltrichlorosilane	0.1 – 1	75-79-6	200-902-6	Flammable Liquid, Category 2 Skin corrosion/irritation, Category 2 Eye Irritation, Category 2 Specific target organ toxicity — single exposure, Category 3 (Respiratory tract irritation) Acute toxicity, Category 4 (Oral) Acute toxicity, Category 4 (Dermal) Acute toxicity, Category 3 (Inhalation)

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#### **SECTION 4: FIRST AID MEASURES**



#### Description of first aid measures

Self-protection of the first aider

Inhalation

Skin Contact

**Eve Contact** 

Ingestion

Most important symptoms and effects, both acute and delayed

Indication of any immediate medical attention and special treatment needed

Use personal protective equipment as required. Wear appropriate personal protective equipment, avoid direct contact. Ensure adequate ventilation. Do not breathe vapour. Avoid all contact. Contaminated clothing should be laundered before reuse.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Apply artificial respiration if necessary. Call a POISON CENTER or doctor/physician if you feel unwell. IF exposed or concerned: Get medical advice/attention.

IF ON SKIN: Remove contaminated clothing and wash all affected areas with plenty of water. Contaminated clothing should be thoroughly cleaned. If skin irritation occurs: Get medical advice/attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if eye irritation develops or persists.

IF SWALLOWED: Do NOT induce vomiting. Rinse mouth. Drink two glasses of water. Do not give milk or alcoholic beverages. Do not give anything by mouth to an unconscious person. Immediately call a POISON CENTER/doctor.

May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of damaging the unborn child. - Inhalation. May cause damage to organs through prolonged or repeated exposure: Central nervous system - Inhalation.

Do NOT induce vomiting, if vomiting does occur, have victim lean forward to reduce risk of aspiration. Initiate inhalative cortisone therapy (e.g. Auxiloson, Thomae). Check the acid/alkali balance. Latency of several hours is possible. After swallowing do not give any milk or digestible oils. Activated charcoal (20-60 g) and sodium sulfate (1 tablespoon/250 ml) should reduce absorption.

#### **SECTION 5: FIRE-FIGHTING MEASURES**

### **Extinguishing media**

Suitable Extinguishing Media

Unsuitable extinguishing Media

Special hazards arising from the substance or mixture

Special protective equipment and precautions for fire fighters

As appropriate for surrounding fire. Extinguish preferably with foam, carbon dioxide or dry chemical.

Do not use water jet. Direct water jet may spread the fire.

Highly flammable liquid and vapour. May decompose in a fire giving off toxic fumes. May decompose in a fire giving off toxic fumes. Silicon Dioxide, Chlorine compounds, Hydrogen chloride, Formaldehyde, Carbon oxides and traces of incompletely burned carbon compounds. Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback. May form explosive mixture with air particularly in empty uncleaned receptacles.

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Avoid run off to waterways and sewers.

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Stop leak if safe to do so. Eliminate all ignition sources if safe to do so. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. See Section: 8. Avoid

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Methods and material for containment and cleaning up

breathing vapours.

Use non-sparking equipment when picking up flammable spill. Do not use any plastic equipment. Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal. Ventilate the area and wash spill site after material pick-up is complete. Dispose of this material and its container as hazardous waste

#### **SECTION 7: HANDLING AND STORAGE**

#### Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take precautionary measures against static discharge. Do not use sparking tools. Ensure adequate ventilation. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid contact with skin, eyes or clothing. Do not breathe vapour. Use personal protective equipment as required. See Section: 8. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Do not use any plastic equipment. Protect from moisture.

Conditions for safe storage, including any incompatibilities

Ground/bond container and receiving equipment. Store in a well-ventilated place. Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from direct sunlight. Protect from moisture.

Storage temperature Incompatible materials

Ambient. Keep at temperature not exceeding (℃): 32

Keep away from: Oxidizing agents, Alkalis, Bases, Acids, Amines and Copper Can react with Rubber. Do not use any plastic equipment. Protect from moisture.

# **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **Occupational Exposure Limits**

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note
Acetone	67-64-1	250	590	-	-	NIOSH
		1000	2400	-	-	OSHA
		250	-	500	=	ACGIH, A4
Toulene	108-88-3	100	375	150*	560*	NIOSH
		200	-	300	-	OSHA
		20	-	-	=	ACGIH, A4
Tetraethylorthosilicate	78-10-4	10	85	-	=	NIOSH
		100	850	-	=	OSHA
		10	-	-	-	ACGIH

Note: OSHA PELs 1910.1000 TABLE Z-1 / NIOSH RELs / ACGIH TLVs

A4: Not Classifiable as a Human Carcinogen: Agents which cause concern that they could be carcinogenic for humans but which cannot be assessed conclusively because of the lack of data. In vitro or animal studies do not provide indications of carcinogenicity which are sufficient to classify the agent into one of the other categories.

The other components listed in Section 3 do not have occupational exposure limits.

#### **Biological Exposure Indices**

SUBSTANCE	CAS No.	Determinant	Biological Exposure Indices	Sampling Time	Note
Acetone	67-64-1	Acetone in urine	25 mg/l	End of shift	Ns
		Toluene in blood	0.02 mg/l	Prior to last shift of workweek	-
Toluene	108-88-3	Toluene in urine	0.03 mg/l	End of shift	-
		o-Cresol in urine with	0.3 mg/g creatinine	End of shift	В

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<sup>\*</sup>NIOSH 15 minutes average value

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hydrolosis

Source: 2015 ACGIH Biological Exposure Indicies (BEIs)

Ns - Nonspecific B - Background

The other components listed in Section 3 do not have biological exposure indicies.

Appropriate engineering controls

Ensure adequate ventilation or use appropriate containment. Atmospheric levels should be controlled in compliance with the occupational exposure limit.

Individual protection measures, such as personal protective equipment (PPE)

General hygiene measures for the handling of chemicals are applicable. Avoid contact with skin, eyes or clothing. Do not breathe vapour. Wash hands before breaks and after work. Keep work clothes separately. Contaminated clothing should be thoroughly cleaned. Do not eat, drink or smoke at the work place.

Eye/face protection



Wear protective eye glasses for protection against liquid splashes. Wear eye

protection with side protection.

Skin protection



Hand protection: Wear impervious gloves. Gloves should be changed regularly to avoid permeation problems. Breakthrough time of the glove material: refer to the information provided by the gloves' producer.

Body protection: Wear impervious protective clothing, including boots, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Respiratory protection



In case of inadequate ventilation wear respiratory protection. Open system(s): Wear suitable respiratory protective equipment. A suitable mask with filter type A may be appropriate (Filter type AX (Brown)).

### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

### Information on basic physical and chemical properties

**Appearance** 

Odor

Odor Threshold

Hq Melting Point/Freezing Point Initial boiling point and boiling range

Flash Point

Evaporation rate (Butyl acetate = 1)

Flammability (solid, gas)

Upper/lower flammability or explosive limits

Vapour pressure Vapour density Relative density

Solubility(ies)

Partition coefficient: n-octanol/water Auto-ignition temperature **Decomposition Temperature** 

Viscosity

Clear White - Yellow Coloured liquid.

Solvent Odour Not available. Not established. Not established. -94.8℃ (Acetone) >35℃ (Mixture)

-19.8 ℃ (Mixture) [Closed cup]

Not applicable - Liquid Not established. Not established.

>1 (Air = 1)

0.87 (H2O = 1) (Mixture)

Not established. Not available. Not available. Not available. Not available.

Other information Max VOC = 138 g/L inclusive of water and exempt compounds.

Max VOC = 467 g/L exclusive of water and exempt compounds.

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Conditions to avoid



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#### **SECTION 10: STABILITY AND REACTIVITY**

 Reactivity
 Stable under normal conditions.

 Chemical stability
 Stable under normal conditions.

Possibility of hazardous reactions Highly flammable liquid and vapour. Vapours are heavier than air and may travel

considerable distances to a source of ignition and flashback. May form explosive

mixture with air particularly in empty uncleaned receptacles.

Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking. Keep away from direct sunlight. Do not use sparking tools. Do not use any plastic equipment. Protect from moisture.

Incompatible materials Keep away from: Oxidizing agents, Alkalis, Bases, Acids, Amines and Copper

Can react with Rubber. Do not use any plastic equipment.

Hazardous decomposition product(s)

May decompose in a fire giving off toxic fumes. Silicon Dioxide, Chlorine

compounds, Hydrogen chloride, Formaldehyde, Carbon oxides and traces of

incompletely burned carbon compounds.

#### **SECTION 11: TOXICOLOGICAL INFORMATION**

**Acute toxicity - Skin Contact** 

Information on toxicological effects (Substances in preparations / mixtures)

Acute toxicity - Ingestion Based upon the available data, the classification criteria are not met.

Acute Toxicity Estimate Mixture Calculation: Estimated LC50 > 2000 mg/kg

bw/day.

Acute toxicity - Inhalation Based upon the available data, the classification criteria are not met.

Acute Toxicity Estimate Mixture Calculation: Estimated LC50 >20.0 mg/l. Based upon the available data, the classification criteria are not met.

Acute Toxicity Estimate Mixture Calculation: Estimated LC50 > 2000 mg/kg

bw/day.

Skin corrosion/irritationSkin corrosion/irritation, Category 2: Causes skin irritation.Serious eye damage/irritationEye Irritation, Category 2: Causes serious eye irritation.

Respiratory or skin sensitization

Germ cell mutagenicity

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

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

Carcinogenicity

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

Reproductive toxicity, Category 2: Suspected of damaging the unborn child -

Inhalation.

**STOT - single exposure** Specific target organ toxicity — single exposure, Category 3: May cause

respiratory irritation.

Specific target organ toxicity — single exposure, Category 3: May cause

drowsiness or dizziness.

STOT - repeated exposure Specific target organ toxicity — repeated exposure, Category 2: May cause

damage to organs through prolonged or repeated exposure: Central nervous

system - Inhalation.

Aspiration hazard Aspiration hazard, Category 1: May be fatal if swallowed and enters airways.

Information on likely routes of exposure

InhalationPossible – accidental exposureIngestionUnlikely – accidental exposureSkin ContactPossible – accidental exposureEye ContactUnlikely – accidental exposure

Early onset symptoms related to exposure Causes skin irritation. Causes serious eye irritation. May cause respiratory

irritation. May cause drowsiness or dizziness. May be fatal if swallowed and

enters airways.

Delayed health effects from exposure Suspected of damaging the unborn child. May cause damage to organs (Central

Nervous System) through prolonged or repeated exposure.

Other information

NTP Report on Carcinogens Not listed

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IARC Monographs Toluene - Group 3

**OSHA** Designated Carcinogen Not listed

### SECTION 12: ECOLOGICAL INFORMATION

Based upon the available data, the classification criteria are not met. **Ecotoxicity** 

Estimated Mixture LC50 >100 mg/l (Fish)

Persistence and degradability Part of the components are poorly biodegradable. **Bioaccumulative potential** The product has low potential for bioaccumulation.

Mobility in soil The product is predicted to have high mobility in soil. May evaporate quickly.

Other adverse effects None known.

#### **SECTION 13: DISPOSAL CONSIDERATIONS**

Waste treatment methods Dispose of this material and its container as hazardous waste. Send after pre-

treatment to a appropriate hazardous waste incinerator facility according to

legislation.

**Additional Information** Dispose of contents in accordance with local, state or national legislation.

#### **SECTION 14: TRANSPORT INFORMATION**

ADR/RID **IMDG** IATA **UN** number UN1993 UN1993 UN1993

**UN proper shipping name** FLAMMABLE LIQUID FLAMMABLE LIQUID FLAMMABLE LIQUID N.O.S (CONTAINS N.O.S (CONTAINS N.O.S (CONTAINS ACETONE AND ACETONE AND ACETONE AND TOLUENE) TOLUENE) TOLUENE)

Transport hazard class(es) 3 3 3

Packing group Ш Ш Ш

Not classified as a **Environmental hazards** Not classified as a Not classified as a Marine Pollutant. / Marine Pollutant. / Marine Pollutant. / Environmentally Environmentally Environmentally hazardous substance hazardous substance hazardous substance

Not applicable.

Transport in bulk according to Annex II of MARPOL

73/78 and the IBC Code

Special precautions for user See Section: 2

#### SECTION 15: REGULATORY INFORMATION

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

**US Federal Regulations** 

TSCA (Toxic Substance Control Act) Acetone: Subject to 25,000 lb reporting threshold Toluene: Subject to 25,000 lb reporting threshold

Tetraethylorthosilicate: Subject to 25,000 lb reporting threshold

Methyltrichlorosilane: Subject to 25,000 lb reporting threshold

EPCRA/SARA Section 302 Extremely Hazardous Not listed

Substances

EPCRA Section 313 Toxics Release Inventory (TRI) Toluene: De Minimis limit: 1%

Program

NIOSH Occupational Carcinogen List Not listed

OSHA List of highly hazardous chemicals, toxics and

reactives

Methyltrichlorosilane: Threshold Quantity = 500 lbs

NTP Report on Carcinogens (RoC) List Not listed

Poison Prevention Packaging Act Toluene: Substance requiring special packaging - Solvents for paint or other

similar surface-coating material

**US State Regulations** 

California State, Proposition 65 List Toluene: Safe harbor level - MADL: 7000 ug/day

California State, Safer Consumer Products Regulations Acetone: Candidate Chemicals List

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Toluene: Initial Candidate Chemicals List

Maine State, Toxic Chemicals in Children's Products Act
New Jersey State Worker and Community RTK Act
Acetone: RTKHSL. SHHSL
Toluene: RTKHSL. SHHSL

Tetraethylorthosilicate: RTKHSL. SHHSL Methyltrichlorosilane: RTKHSL. SHHSL

Pennsylvania State, Worker and Community RTK Act Acetone: Hazardous Substance List. Environmental Hazard List

Toluene: Hazardous Substance List. Environmental Hazard List

Tetraethylorthosilicate: Hazardous Substance List

Methyltrichlorosilane: Hazardous Substance List. Environmental Hazard List

Rhode Island State, Hazardous Substances RTK Act

Acetone: Hazardous Substance List
Toluene: Hazardous Substance List

Tetraethylorthosilicate: Hazardous Substance List

Methyltrichlorosilane: Hazardous Substance List

Non-Regional

IARC Monographs, List of Classifications Toluene: Group 3

#### **SECTION 16: OTHER INFORMATION**

The following sections contain revisions or new statements: New SDS Regulation compliant with HazCom 2012 format, all sections have been updated to include new information. Please review SDS with care.

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#### References:

Existing Safety Data Sheet (SDS). EU Data: Existing ECHA registration(s) for and Harmonised Classification(s) for Acetone (CAS# 67-64-1), Toluene (CAS# 108-88-3), Tetraethylorthosilicate (CAS# 78-10-4) and Methyltrichlorosilane (CAS# 75-79-6).

GHS Classification of the substance or mixture	Classification Procedure
Flammable Liquid, Category 2	Flash Point [Closed cup] Test Result/ Boiling Point (℃)
Aspiration hazard, Category 1	Estimated Viscosity
Skin corrosion/irritation, Category 2	Threshold Calculation
Eye Irritation, Category 2	Threshold Calculation
Specific target organ toxicity — single exposure, Category 3	Threshold Calculation
Specific target organ toxicity — single exposure, Category 3	Threshold Calculation
Reproductive toxicity, Category 2	Threshold Calculation
Specific target organ toxicity — repeated exposure, Category 2	Threshold Calculation

#### LEGEND

ACGIH: American Conference of Governmental Industrial Hygienists

REL: Recommended exposure limit

REL: Property Indiana (ACGIH)

SCL: Specific Concentration Limit

BEI: Biological Exposure Indices (ACGIH) SCL: Specific Concentration Limit

IARC: International Agency for Research on Cancer Skin": Risk of overexposure via dermal contact

Irr: Irritation STEL: Short Term Exposure Limit NIOSH: National Institute of Occupational Safety and Health TLV: Threshold Limit value

NTP: National Toxicology Program

TSCA: Toxic Substance Control Act
OSHA: The Occupational Safety & Health Administration

TWA: Time Weighted Average
PBT: Persistent, Bioaccumulative and Toxic

URT: Upper respiratory tract

PEL: Permissible exposure limit vPvB: very Persistent and very Bioaccumulative

Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

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Document No.: 63999 Revision: 15-Jul-2014