

# SAFETY DATA SHEET

Revision: 2.0 Date: 21.08.2015


ACCORDING TO EC-REGULATIONS 1907/2006 (REACH),  
1272/2008 (CLP) & 2015/830

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## 1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1 Product identifier**  
Product Name Gagekote 5 Part A  
Chemical Name Mixture  
CAS No. Mixture  
EINECS No. Mixture  
REACH Registration No. None assigned.
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**  
Identified Use(s) PC14 Metal surface treatment products, including galvanic and electroplating products.  
Uses Advised Against None known.
- 1.3 Details of the supplier of the safety data sheet**  
Company Identification VISHAY MEASUREMENTS GROUP UK LTD  
Stroudley Road  
Basingstoke  
Hampshire  
United Kingdom  
RG24 8FW  
Telephone +44 (0) 1256 462131  
Fax +44 (0) 1256 471441  
E-Mail (competent person) mm.uk@vishaypg.com
- 1.4 Emergency telephone number** (00-1) 703-527-3887  
CHEMTREC

## 2. SECTION 2: HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture**  
**2.1.1 Regulation (EC) No. 1272/2008 (CLP)** Skin Sens. 1; H317
- 2.2 Label elements**  
Product Name Gagekote 5 Part A  
Hazard Pictogram(s)   
Signal Word(s) Warning  
Contains: 2,4,6-Tris(dimethylaminomethyl)phenol  
Hazard Statement(s) H317: May cause an allergic skin reaction.  
Precautionary Statement(s) P261: Avoid breathing vapours.  
P272: Contaminated work clothing should not be allowed out of the workplace.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P302+P352: IF ON SKIN: Wash with plenty of water.  
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.  
P363: Wash contaminated clothing before reuse.
- Additional Information** None.
- 2.3 Other hazards** None.

# SAFETY DATA SHEET

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ACCORDING TO EC-REGULATIONS 1907/2006 (REACH),  
1272/2008 (CLP) & 2015/830

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

3.1 **Substances** Not applicable

3.2 **Mixtures**

EC Classification Regulation (EC) No. 1272/2008 (CLP)

Chemical identity of the substance	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard Statement(s)
2,4,6-Tris(dimethylaminomethyl)phenol	1 - 5	90-72-2	202-013-9	None assigned	Acute Tox. 4; H302 Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319 Aquatic Chronic 3; H412

H302: Harmful if swallowed. H315: Causes skin irritation. H317: May cause an allergic skin reaction. H319: Causes serious eye irritation. H412: Harmful to aquatic life with long lasting effects.

## 4. SECTION 4: FIRST AID MEASURES



4.1 **Description of first aid measures**

Inhalation

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.

Skin Contact

IF ON SKIN: Remove contaminated clothing. Wash skin with soap and water. Contaminated clothing should be thoroughly cleaned. If skin irritation or rash occurs: Get medical advice/attention.

Eye Contact

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.

Ingestion

Do not induce vomiting. Do not give anything by mouth to an unconscious person. Obtain medical attention if ill effects occur.

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

May cause an allergic skin reaction.

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

Treat symptomatically.

## 5. SECTION 5: FIREFIGHTING MEASURES

5.1 **Extinguishing media**

Suitable Extinguishing media

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

Unsuitable extinguishing media

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

5.2 **Special hazards arising from the substance or mixture**

May decompose in a fire giving off toxic fumes. Oxides of nitrogen, sulphur and carbon may be formed. May generate ammonia gas.

5.3 **Advice for fire-fighters**

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.

## 6. SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 **Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation. Stop leak if safe to do so. Use personal protective equipment as required. See Section: 8. Avoid breathing vapours.

6.2 **Environmental precautions**

Avoid release to the environment. Do not allow to enter drains, sewers or

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Revision: 2.0 Date: 21.08.2015

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH),  
1272/2008 (CLP) & 2015/830

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- 6.3 **Methods and material for containment and cleaning up**  
watercourses.  
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 (2008/98/EEC).
- 6.4 **Reference to other sections**  
See Section: 8, 13

## 7. SECTION 7: HANDLING AND STORAGE

- 7.1 **Precautions for safe handling**  
Avoid contact with skin, eyes or clothing. Avoid breathing vapours. Ensure adequate ventilation. 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.
- 7.2 **Conditions for safe storage, including any incompatibilities**  
Storage temperature: Ambient.  
Storage life: Stable under normal conditions.  
Incompatible materials: Keep away from: Oxidizing agents, Organic acids (acetic acid, citric acid etc.), Sodium hypochlorite and Mineral acids. Keep away from organic peroxides. Product slowly corrodes copper, aluminum, zinc and galvanized surfaces.
- 7.3 **Specific end use(s)**  
PC14 Metal surface treatment products, including galvanic and electroplating products.

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

- 8.1 **Control parameters**
- 8.1.1 **Occupational Exposure Limits**  
Not established.
- 8.1.2 **Biological limit value**  
Not established.
- 8.1.3 **PNECs and DNELs**  
Not established.
- 8.2 **Exposure controls**
- 8.2.1 **Appropriate engineering controls**  
Ensure adequate ventilation or use appropriate containment. Atmospheric levels should be controlled in compliance with the occupational exposure limit. Local exhaust recommended. Have available eyewash bottle with clean water.
- 8.2.2 **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 (EN166). Contact lenses should not be worn.

Skin protection



Hand protection: Wear impervious gloves (EN374). Gloves should be changed regularly to avoid permeation problems. The gloves type used must be chosen based on the work activity and duration as well as concentration/quantity of material being handled. Breakthrough time of the glove material: refer to the information provided by the gloves' producer. Recommended: Neoprene, Polyvinyl chloride - PVC and Nitrile rubber.

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.

Thermal hazards

Not applicable.

# SAFETY DATA SHEET

Revision: 2.0 Date: 21.08.2015

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1272/2008 (CLP) & 2015/830

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## 8.2.3 Environmental Exposure Controls

Avoid release to the environment.

## 9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance	Red liquid
Odour	Mercaptan odour
Odour threshold	Not available.
pH	Not established.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	93.3°C [Closed cup]
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable - Liquid
Upper/lower flammability or explosive limits	Not applicable.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	1.2 (H <sub>2</sub> O = 1)
Solubility(ies)	Slightly soluble.
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature	Not applicable.
Decomposition Temperature	Not available.
Viscosity	Not available.
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.

### 9.2 Other information

None known.

## 10. SECTION 10: STABILITY AND REACTIVITY

10.1 Stability and reactivity	Product slowly corrodes copper, aluminum, zinc and galvanized surfaces.
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	Hazardous polymerisation will not occur.
10.4 Conditions to avoid	Direct heat.
10.5 Incompatible materials	Keep away from: Oxidizing agents, Organic acids (acetic acid, citric acid etc.), Sodium hypochlorite and Mineral acids. Keep away from organic peroxides.
10.6 Hazardous decomposition product(s)	May decompose in a fire giving off toxic fumes. Oxides of carbon, Oxides of nitrogen and Ammonia.

## 11. SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 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.

Inhalation

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

Skin Contact

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/irritation

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

#### Serious eye damage/irritation

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

#### Respiratory or skin sensitization

Skin Sens. 1: May cause an allergic skin reaction.

#### Germ cell mutagenicity

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

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

# SAFETY DATA SHEET

Revision: 2.0 Date: 21.08.2015

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	<b>STOT - single exposure</b>	Based upon the available data, the classification criteria are not met.
	<b>STOT - repeated exposure</b>	Based upon the available data, the classification criteria are not met.
	<b>Aspiration hazard</b>	Based upon the available data, the classification criteria are not met.
11.2	<b>Other information</b>	None.

## 12. SECTION 12: ECOLOGICAL INFORMATION

12.1	<b>Toxicity</b>	Based upon the available data, the classification criteria are not met. Estimated Mixture LC50 >100 mg/l (Fish)
12.2	<b>Persistence and degradability</b>	Part of the components are poorly biodegradable.
12.3	<b>Bioaccumulative potential</b>	No data for the mixture as a whole.
12.4	<b>Mobility in soil</b>	No data for the mixture as a whole.
12.5	<b>Results of PBT and vPvB assessment</b>	Not classified as PBT or vPvB.
12.6	<b>Other adverse effects</b>	None known.

## 13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1	<b>Waste treatment methods</b>	Do not release undiluted and unneutralised to the sewer. Dispose of this material and its container as hazardous waste (2008/98/EEC). Send after pre-treatment to an appropriate hazardous waste incinerator facility according to legislation.
13.2	<b>Additional Information</b>	Dispose of contents in accordance with local, state or national legislation.

## 14. SECTION 14: TRANSPORT INFORMATION

		<b>ADR/RID / IMDG / IATA</b>
14.1	<b>UN number</b>	UN 3316
14.2	<b>UN proper shipping name</b>	CHEMICAL KIT*
14.3	<b>Transport hazard class(es)</b>	9
14.4	<b>Packing group</b>	II
14.5	<b>Environmental hazards</b>	Not classified as a Marine Pollutant/ Environmentally hazardous substance
14.6	<b>Special precautions for user</b>	See Section: 2
14.7	<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not applicable.
14.8	<b>Additional Information</b>	*When shipped as a kit containing Gagekote 5 Parts A & B.

## 15. SECTION 15: REGULATORY INFORMATION

15.1	<b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	
15.1.1	<b>EU regulations</b>	
	Substance(s) of Very High Concern (SVHCs)	None
15.1.2	<b>National regulations</b>	Water hazard class: 1
	Wassergefährdungsklasse (Germany)	
15.2	<b>Chemical Safety Assessment</b>	Not available.

## 16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

**References:** Existing Safety Data Sheet (SDS), Harmonised Classification(s) for 2,4,6 Tri (dimethylaminomethyl) phenol (CAS# 90-72-2). Existing ECHA registration(s) for 2,4,6 Tri (dimethylaminomethyl) phenol (CAS# 90-72-2).

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Classification of the substance or mixture According to Regulation (EC) No. 1272/2008 (CLP)	Classification Procedure
Skin Sens. 1; H317	Threshold Calculation

## LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
PBT	PBT: Persistent, Bioaccumulative and Toxic
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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## Annex to the extended Safety Data Sheet (eSDS)

No information available.