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SECT	SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING			
1.1	1.1 Product identifier			
	Product Name	RS-200-CK2 Part A		
1.2	Relevant identified uses of the substance or mixture and uses advised against Identified Use(s) Uses Advised Against	Adhesives Anything other than the above.		
1.3	Details of the supplier of the safety data sheet Company Identification	VISHAY MEASUREMENTS GROUP UK LTD Stroudley Road Basingstoke Hampshire RG24 8FW United Kingdom +44 (0) 1256 462131		
	Fax	+44 (0) 1256 471441		
	E-Mail (competent person)	mm.uk@vishaypg.com		
1.4	Emergency telephone number Emergency Phone No. Languages spoken	(00-1) 703-527-3887 CHEMTREC (24 hours) All official European languages.		
SECT	ION 2: HAZARDS IDENTIFICATION			
2.1	Classification of the substance or mixture			
2.1.1	Regulation (EC) No. 1272/2008 (CLP)	Skin irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319 STOT SE. 3; H335 Aquatic Chronic 2; H411		
2.2	Label elements Product Name Contains:	According to Regulation (EC) No. 1272/2008 (CLP) RS-200-CK2 Part A 2-(chloromethyl)oxirane; Formaldehyde; Phenol and 4,4'- Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3- epoxypropane and 1,3-Propanediol, 2-(hydroxymethyl)-2-methyl-, polymer with 2-(chloromethyl)oxirane		
	Hazard Pictogram(s)			
	Signal Word(s)	Warning		
	Hazard Statement(s)	H315: Causes skin irritation. H317: May cause an allergic skin reaction. H319: Causes serious eye irritation. H335: May cause respiratory irritation. H411: Toxic to aquatic life with long lasting effects.		
	Precautionary Statement(s)	P280: Wear protective gloves/protective clothing/eye protection/face protection. P302+P352: IF ON SKIN: Wash with plenty of water.		

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P333+P313: If skin irritation or rash occurs: Get medical advice/attention. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312: Call a POISON CENTER/doctor if you feel unwell.

2.3 Other hazards

None known.

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-(chloromethyl)oxirane; Formaldehyde; Phenol	<u><</u> 100	28064-14-4	608-164-0	Not yet assigned in the supply chain	Skin irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319 STOT SE. 3; H335 Aquatic Chronic 2; H411
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane	10 - 20	25068-38-6	608-164-0	Not yet assigned in the supply chain	Skin irrit. 2; H315 (SCL \geq 5%) Skin Sens. 1; H317 Eye Irrit. 2; H319 (SCL \geq 5%) Aquatic Chronic 2; H411
1,3-Propanediol, 2- (hydroxymethyl)-2-methyl-, polymer with 2- (chloromethyl)oxirane	10 – 20	68460-21-9	Not applicable	Not yet assigned in the supply chain	Skin irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319 Aquatic Chronic 3; H412

For full text of H phrases see section 16.

SECTION 4: FIRST AID MEASURES



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4.1 Description of first aid measures Self-protection of the first aider

Inhalation

Skin Contact

Eye Contact

Ingestion

- 4.2 Most important symptoms and effects, both acute and delayed
- 4.3 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. Avoid breathing vapours. Avoid contact with skin and eyes. Contaminated clothing should be laundered before reuse.
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- IF ON SKIN (or hair): Wash skin with soap and water. If skin irritation occurs: Get medical advice/attention.
- IF IN EYES: Flush eyes with water for at least 15 minutes while holding eyelids open. If eye irritation persists, get medical advice/attention.
- Wash out mouth with water. Do not induce vomiting. If symptoms develop, obtain medical attention.
- Causes skin irritation. Causes eye irritation. May cause respiratory irritation. May cause an allergic skin reaction.
- Unlikely to be required but if necessary treat symptomatically.

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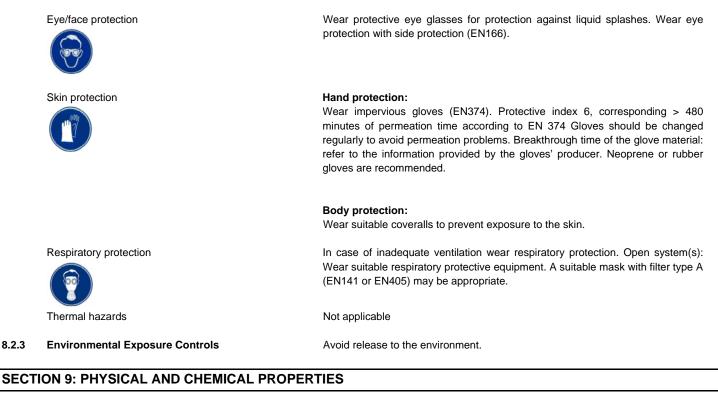
SECI	ION 5: FIRE-FIGHTING MEASURES		
5.1 5.2	Extinguishing media Suitable Extinguishing Media Unsuitable extinguishing Media Special hazards arising from the substance or	Extinguish with carbon dioxide, dry chemical, foam or waterspray. Do not use water jet.	
. .2	special nazards arising from the substance or mixture	May decompose in a fire giving off toxic fumes. Hazardous decomposition product(s): Aldehydes, Acids Phenolics, Carbon monoxide, Carbon dioxide.	
5.3	Advice for fire-fighters	Dense smoke is emitted when burned without sufficient oxygen. 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.	
SECT	TION 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. Avoid contact with skin and eyes.	
6.2	Environmental precautions	Avoid release to the environment. Do not release undiluted and unneutralised to the sewer. Spillages or uncontrolled discharges into watercourses must be alerted to the Environment Agency or other appropriate regulatory body.	
6.3	Methods and material for containment and cleaning up	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.	
6.4	Reference to other sections	See Section: 8, 13	
SECT	ION 7: HANDLING AND STORAGE		
7.1	Precautions for safe handling	Ensure operatives are trained to minimise exposures. Ensure adequate ventilation. Avoid breathing vapours. In case of inadequate ventilation wear respiratory protection. Wear protective gloves/protective clothing/eye protection/face protection. Avoid contact with skin and eyes. Do not eat, drink or smoke when using this product.	
7.2	Conditions for safe storage, including any incompatibilities	Keep only in original container. Keep container tightly closed and in a well ventilated place.	
	Storage temperature Storage life	Ambient temperatures. Stable under normal conditions.	
	Incompatible materials	Oxidizing agents, Acids, Bases	
7.3	Specific end use(s)	See Section: 1.2.	
SECT	ION 8: EXPOSURE CONTROLS/PERSONAL	PROTECTION	
8.1 8.1.1	Control parameters Occupational Exposure Limits	Not applicable.	
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 operatives are trained to minimise exposures. Ensure adequate ventilation. Atmospheric levels should be controlled in compliance with the occupational exposure limit.	
8.2.2	Individual protection measures, such as personal protective equipment (PPE)	General hygiene measures for the handling of chemicals are applicable. Keep good industrial hygiene. Avoid contact with skin and eyes. Avoid breathing vapours. Wash hands before breaks and after work. Keep work clothes separately. Do not eat, drink or smoke at the work place. IF exposed: Flush with fresh water if contact with skin or eyes.	

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9.1	Information on basic physical and chemical properties	i
	Appearance	Clear Liquid
	Odour	Characteristic
	Odour threshold	Not determined.
	рН	Not determined.
	Melting point/freezing point	Not determined.
	Initial boiling point and boiling range	191°C
	Flash point	Not applicable.
	Evaporation rate	Not applicable.
	Flammability (solid, gas)	Non-flammable.
	Upper/lower flammability or explosive limits	Not applicable.
	Vapour pressure	Not available.
	Vapour density	Not available.
	Relative density	Specific Gravity: 1.19 g/cm ³ (9.931 lbs/gal)
	Solubility(ies)	Water: Immiscible
	Partition coefficient: n-octanol/water	Not available.
	Auto-ignition temperature	Not applicable.
	Decomposition Temperature	Not available.
	Viscosity	Not available.
	Explosive properties	Not available.
	Oxidising properties	Not oxidising.
9.2	Other information	
	Organic solvents	0%
	Volatile Organic Compound Content	5.04 GMS/L

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

- 10.2 **Chemical stability**
- 10.3 Possibility of hazardous reactions
- 10.4 Conditions to avoid

Stable under normal conditions. Stable under normal conditions. None known. Stable under normal conditions. None known.

8.2.3

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10.5 Incompatible materials

10.6 Hazardous decomposition product(s) Oxidizing agents, Acids, Bases

May decompose in a fire giving off toxic fumes. Hazardous decomposition product(s): Aldehydes, Acids Phenolics, Carbon monoxide, Carbon dioxide. Dense smoke is emitted when burned without sufficient oxygen.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1	Information on toxicological effects	All test data taken from existing ECHA registrations for the substances
	Acute toxicity - Ingestion	mentioned. Based upon the available data, the classification criteria are not met.
	Acute toxicity - ingestion	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 - initialation	Acute Toxicity Estimate Mixture Calculation: Estimated LC50 >20.0 mg/l.
	Acute toxicity - Skin Contact	Based upon the available data, the classification criteria are not met.
	Acute toxicity - Skill Colliact	Acute Toxicity Estimate Mixture Calculation: Estimated LC50 > 2000 mg/kg
		bw/day.
	Skin corrosion/irritation	Skin Irrit. 2; Causes skin irritation.
	2-(chloromethyl)oxirane; Formaldehyde; Phenol	Skin irrit. 2; H315
		No data.
	4,4'-Isopropylidenediphenol, oligomeric reaction products	
	with 1-chloro-2,3-epoxypropane	Irritating to skin. OECD 404 (rabbit)
	1,3-Propanediol, 2-(hydroxymethyl)-2-methyl-, polymer	Skin irrit. 2: H315
	with 2-(chloromethyl)oxirane	No data.
	Serious eye damage/irritation	Eye Irrit. 2; Causes serious eye irritation.
	2-(chloromethyl)oxirane; Formaldehyde; Phenol	Eye irrit. 2; H319
		No data.
	4,4'-Isopropylidenediphenol, oligomeric reaction products	Eye irrit. 2; H319 SCL <u>></u> 5%
	with 1-chloro-2,3-epoxypropane	EU Harmonised Classification
	1,3-Propanediol, 2-(hydroxymethyl)-2-methyl-, polymer	Eye irrit. 2; H319
	with 2-(chloromethyl)oxirane	No data.
	Respiratory or skin sensitization	Skin Sens. 1; May cause an allergic skin reaction.
	2-(chloromethyl)oxirane; Formaldehyde; Phenol	Skin Sens. 1; H317
		No data.
	4,4'-Isopropylidenediphenol, oligomeric reaction products	•
	with 1-chloro-2,3-epoxypropane	Sensitisation: Positive OECD 429 (mouse)
	1,3-Propanediol, 2-(hydroxymethyl)-2-methyl-, polymer	Skin Sens. 1; H317
	with 2-(chloromethyl)oxirane	No data.
	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.
	STOT - single exposure	STOT SE 3; May cause respiratory irritation.
	2-(chloromethyl)oxirane; Formaldehyde; Phenol	STOT SE. 3; H335
		No data.
	STOT - repeated exposure	Based upon the available data, the classification criteria are not met.
44.0	Aspiration hazard	Based upon the available data, the classification criteria are not met.
11.2	Other information	None known.

SECTION 12: ECOLOGICAL INFORMATION

with 1-chloro-2,3-epoxypropane

Persistence and degradability

with 2-(chloromethyl)oxirane

12.1 Toxicity

2-(chloromethyl)oxirane; Formaldehyde; Phenol

Aquatic Chronic 2; Toxic to aquatic life with long lasting effects. Estimated Mixture LC50 > 10 < 100 mg/l (Fish) Aquatic Chronic 2; H411 No data. 4,4'-Isopropylidenediphenol, oligomeric reaction products Aquatic Chronic 2; H411 NOEC 0.3 mg/L OECD 211 (Daphnia magna) 1,3-Propanediol, 2-(hydroxymethyl)-2-methyl-, polymer Aquatic Chronic 3; H412 No data. No data for the mixture as a whole. 4,4'-Isopropylidenediphenol, oligomeric reaction products Not biodegradable.

12.2

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	with 1-chloro-2,3-epoxypropane	
12.3	Bioaccumulative potential	No data for the mixture as a whole.
	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane	Bioconcentration factor (BCF) : 31
12.4	Mobility in soil	No data for the mixture as a whole.
	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane	Log Koc 2.65 +/- 0.7
12.5	Results of PBT and VPVB assessment	Not classified as PBT or vPvB. None of the substances in this product fulfil the criteria for being regarded as a PBT or vPvB substance.
12.6	Other adverse effects	None known.
SECTION 13: DISPOSAL CONSIDERATIONS		
SECT	ON 13: DISPOSAL CONSIDERATIONS	
SECT	ON 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.
		treatment to a appropriate hazardous waste incinerator facility according to
13.1 13.2	Waste treatment methods	treatment to a appropriate hazardous waste incinerator facility according to legislation.

		ADR/RID	IMDG	IATA/ICAO
14.1	UN number	UN3082	UN3082	UN3082
14.2	UN proper shipping name	ENVIRONMENTALLY	ENVIRONMENTALLY	ENVIRONMENTALLY
		HAZARDOUS	HAZARDOUS	HAZARDOUS
		SUBSTANCE, LIQUID,	SUBSTANCE, LIQUID,	SUBSTANCE, LIQUID,
		N.O.S. (2-	N.O.S. (2-	N.O.S. (2-
		(chloromethyl)oxirane;	(chloromethyl)oxirane;	(chloromethyl)oxirane;
		Formaldehyde; Phenol)	Formaldehyde; Phenol)	Formaldehyde; Phenol)
14.3	Transport hazard class(es)	9	9	9
14.4	Packing group	111	111	111
14.5	Environmental hazards	Environmentally	Marine Pollutant	Environmentally
		hazardous substance		hazardous substance
14.6	Special precautions for user	See Section: 2		
14.7	Transport in bulk according to Annex II of	Not applicable		
	MARPOL73/78 and the IBC Code			

SECTION 15: REGULATORY INFORMATION

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture	
15.1.1	EU regulations	
	Authorisations and/or Restrictions On Use	Not restricted
15.1.2	National regulations	
	Germany	Water hazard class: 2
15.2	Chemical Safety Assessment	A chemical safety assessment is not required under REACH.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: New SDS Regulation 2015/830 format, all sections have been updated to include new information. Please review SDS with care.

References:

Existing Safety Data Sheet (SDS), Harmonised Classification and Existing ECHA registration(s) for 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane (CAS No. 25068-38-6), the Classification and Labelling Inventory for 2-(chloromethyl)oxirane; Formaldehyde; Phenol (CAS No. 28064-14-4), 1,3-Propanediol, 2-(hydroxymethyl)-2-methyl-, polymer with 2-(chloromethyl)oxirane (CAS No. 68460-21-9).

EU Classification: This Safety Data Sheet was prepared in accordance with EC Regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830.

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Classification of the substance or mixture According to Regulation (EC) No. 1272/2008 (CLP)	Classification Procedure
Skin irrit. 2; H315	Threshold Calculation
Skin Sens. 1; H317	Threshold Calculation
Eye Irrit. 2; H319	Threshold Calculation
STOT SE. 3; H335	Threshold Calculation
Aquatic Chronic 2; H411	Summation Calculation

LEGEND

LTEL: Long Term Exposure Limit DNEL: Derived No Effect Level EU: Europe PBT: PBT: Persistent, Bioaccumulative and Toxic

Hazard classification / Classification code:

Skin Irrit. 2; Skin corrosion/irritation, Category 2 Skin Sens. 1; Skin Sensitisation, Category 1 Eye Irrit. 2; Eye Irritation, Category 2 STOT SE 3; Specific target organ toxicity — single exposure, Category 3 Aquatic Chronic 2; Hazardous to the aquatic environment, Chronic , Category 2 Aquatic Chronic 3; Hazardous to the aquatic environment, Chronic , Category 3 STEL: Short Term Exposure Limit PNEC: Predicted No Effect Concentration vPvB: very Persistent and very Bioaccumulative

Hazard Statement(s)

H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.
H335: May cause respiratory irritation.
H411: Toxic to aquatic life with long lasting effects.

H412: Harmful to aquatic life with long lasting effects.

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