



SAFETY DATA SHEET



Version: 1.1 Revision date: 8th June 2020
ACCORDING TO OSHA HCS (29 CFR 1910.1200)

S1125 adhesive - Part B and S1264 adhesive – Part B

SECTION 1: IDENTIFICATION

Product identifier Product Name	S1125 adhesive- Part B and S1264 adhesive – Part B
Other Means of Identification Product type	None Mixture
Recommended use and restrictions Identified Use(s) Uses Advised Against	Adhesive. Epoxy Resin None known.
Details of the supplier of the safety data sheet Address of Supplier	TE Connectivity Corporation Aerospace, Defense & Marine 6900 Paseo Padre Parkway Fremont, CA 94555 USA
Telephone E-Mail (competent person)	North America: 1-650-361-7000 msdsmaterialsuk@te.com
Emergency telephone number Emergency Phone No.	US: CHEMTREC 1-800-424-9300 Operational 24 hours, 7 days CN: CHEMTREC 1-800-424-9300 Outside North America: 1-703-527-887 (Collect calls accepted)
Languages spoken	English

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture in accordance with paragraph (d) of 29 CFR 1910.1200 Physical hazards Health hazards	Not classified Skin corrosion/irritation, Category 2 Eye Irritation, Category 2 Skin Sensitisation, Category 1
Label elements Product Name Contains:	S1125 adhesive- Part B and S1264 adhesive – Part B reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)
Hazard Symbol	
Optional Hazard Symbol	
Signal Word(s)	Warning



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Hazard Statement(s)	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Toxic to aquatic life with long lasting effects.
Precautionary Statement(s)	Avoid breathing mist/vapours/spray. Wash hands and exposed skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN: Wash with plenty of water. If skin irritation or rash 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. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Disposal should be in accordance with local, state or national legislation.
Other hazards	Heating can generate vapors that could cause headaches, nausea, dizziness, and respiratory irritation if inhaled.
Environmental hazards	Hazardous to the aquatic environment, Chronic, Category 2
Percent of the mixture consists of ingredient(s) of unknown acute toxicity:	Not determined.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substances
Not applicable
Mixtures Substances in preparations / mixtures.

Chemical Name	CAS No.	Concentration (%W/W)	Common name(s), synonym(s) of the substance	Hazard classification
reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)	25068-38-6	≥ 25	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane epoxy resin (number average molecular weight ≤ 700) reaction product: bisphenol-A-(epichlorhydrin) Reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight ≤ 700)	Skin corrosion/irritation, Category 2 Eye Irritation, Category 2 Skin Sensitisation, Category 1
Carbon Black	1333-86-4	< 5	Acetylene Black DENKA Acetylene Black DSPL C.I. Pigment Black 7	Not classified [^]

Notes: For full text of H phrases see section 16. [^]See Section: 11

SECTION 4: FIRST AID MEASURES



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

No action should be taken involving personal risk. Wear appropriate personal protective equipment, avoid direct contact. Remove contaminated clothing immediately. If unconscious, place in recovery position and get medical attention



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Inhalation	immediately. Apply artificial respiration if necessary. Check the vital functions. Keep cool. IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. IF exposed or concerned: Get medical advice/attention.
Skin Contact	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. If skin irritation or rash occurs: Get medical advice/attention.
Eye Contact	IF IN EYES: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation develops and persists, get medical attention.
Ingestion	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Get medical advice/attention if you feel unwell.
Most important symptoms and effects, both acute and delayed	Causes skin irritation. Causes eye irritation. May cause an allergic skin reaction. Heating can generate vapors that could cause headaches, nausea, dizziness, and respiratory irritation if inhaled.
Indication of any immediate medical attention and special treatment needed	Treat symptomatically. No antidotes known.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media	Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions. Water spray, foam, dry powder or CO ₂ .
Suitable Extinguishing media	Do not use water jet. Direct water jet may spread the fire.
Unsuitable extinguishing media	May give off noxious and toxic fumes in a fire. Combustion products: Carbon monoxide, Carbon dioxide, Oxides of nitrogen.
Special hazards arising from the substance or mixture	Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Chemical protection suit. Keep containers cool by spraying with water if exposed to fire. Evacuate if necessary. Do not allow run-off from fire fighting to enter drains or water courses.
Special protective equipment and precautions for fire fighters	

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	No action should be taken involving personal risk. Wear appropriate personal protective equipment, avoid direct contact. Remove contaminated clothing and wash all affected areas with plenty of water. Do not allow to enter drains, sewers or watercourses. Spillages or uncontrolled discharges into soil must be alerted to the appropriate regulatory body.
Methods and material for containment and cleaning up	Contain spillages. Cover spills with inert absorbent material. Recover the product where possible. Ventilate the area and wash spill site after material pick-up is complete.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling	When using do not eat or drink. Provide adequate ventilation when using the material and follow the principles of good occupational hygiene to control personal exposures. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not eat, drink or smoke when using this product. Avoid all contact. Remove contaminated clothing and wash clothing before reuse. Keep only in original packaging. Keep in a well ventilated place. Keep container closed.
Conditions for safe storage, including any incompatibilities	Store in a cool/low-temperature, well-ventilated (dry) place away from heat and ignition sources.
Storage temperature	Stable at ambient temperatures.
Storage life	Keep away from oxidising substances. Avoid contact with acids and alkalis.
Incompatible materials	

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters



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Occupational Exposure Limits

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note
Kaolin	1332-58-7	-	10	-	-	NIOSH Total dust
		-	5	-	-	Respirable fract
		-	15	-	-	OSHA (Z-1) Total dust
		-	5	-	-	Respirable fract
		-	2			ACGIH
Titanium dioxide	13463-67-7	-	Ca	-	-	NIOSH; [in animals: lung tumors]
		-	15	-	-	OSHA (Z-1) Total dust
		-	10	-	-	ACGIH, A4
Carbon Black	1333-86-4	-	3.5	-	-	NIOSH; [lymphatic cancer (in presence of PAHs)]
		-	3.5	-	-	OSHA
		-	3.0			ACGIH, A3

Note:

OSHA Permissible Exposure Limit (PEL): Occupational Safety and Health Standards, 1910.1000 TABLE Z-1

NIOSH: National Institute for Occupational Safety and Health (NIOSH) Recommended exposure limits (RELs)

Ca: potential occupational carcinogen

ACGIH: American Conference of Governmental Industrial Hygienists - Threshold limit values (TLV) 2017

A3: Confirmed animal carcinogen with unknown relevance to humans.

A4: Not classifiable as human carcinogen; lack of conclusive data.

Biological limit value

Not established.

Exposure controls

Appropriate engineering controls

Provide adequate ventilation when using the material and follow the principles of good occupational hygiene to control personal exposures. Take action to prevent static discharges. Keep away from fire, sparks and heated surfaces.

Personal protection equipment

Use personal protective equipment as required. Take care for general good hygiene and housekeeping. Avoid all contact. Avoid inhalation of vapours that may be evolved at elevated temperatures.

Eye/ face protection



Wear eye protection with side protection (EN166). Eyewash bottles should be available.

Skin protection (Hand protection/ Other)



Hand protection

Wear impervious gloves (EN374).

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. Recommended: A self contained breathing apparatus may be appropriate.



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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Black Paste
Odour	Mild odour / Characteristic
Odour threshold	Not available
pH	Not determined
Melting point/freezing point	Not determined
Initial boiling point and boiling range	> 150 °C
Flash point	>240 °C [Closed cup]
Evaporation rate	Not determined
Flammability (solid, gas)	Not applicable
Upper/lower flammability or explosive limits	Not applicable
Vapour pressure	Not determined
Vapour density	Not determined
Relative density	1.31
Solubility(ies)	Water: Insoluble
Partition coefficient: n-octanol/water	Not determined
Auto-ignition temperature	Not determined
Decomposition Temperature	Not determined
Viscosity (mPa. s)	Dynamic viscosity: 15 - 50 Pa.s (50 °C)

Other information

Explosive properties	Not explosive
Oxidising properties	Not oxidising

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Stable under normal conditions.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerisation will not occur.
Conditions to avoid	Avoid prolonged storage at elevated temperature.
Incompatible materials	Keep away from oxidising substances. Avoid contact with acids and alkalis.
Hazardous decomposition product(s)	Combustion products: Carbon monoxide, Carbon dioxide, Oxides of nitrogen

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity

Ingestion

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)
Carbon Black

Mixture: Based upon the available data, the classification criteria are not met.
Calculated acute toxicity estimate (ATE) >2,000 mg/kg.
Not classified - LD50 > 2 000 mg/kg bw/day (rat) OECD 420
Not classified - LD50 > 10 000 mg/kg bw/day (rat) OECD 401

Inhalation

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)
Carbon Black

Mixture: Based upon the available data, the classification criteria are not met.
Calculated acute toxicity estimate (ATE) > 5 mg/l
Not classified - No data
Not classified - Weight of evidence approach

Skin Contact

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)
Carbon Black

Mixture: Based upon the available data, the classification criteria are not met.
Calculated acute toxicity estimate (ATE) >2,000 mg/kg.
Not classified - LD50 > 2 000 mg/kg bw/day (rat) OECD 402
Not classified - No data

Skin corrosion/irritation

Mixture: Skin Irrit. 2; Causes skin irritation.



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Carbon Black

Serious eye damage/irritation

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)
Carbon Black

Respiratory or skin sensitization

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)
Carbon Black

Germ cell mutagenicity

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)
Carbon Black

Carcinogenicity

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)

Carbon Black

Reproductive toxicity

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)

Carbon Black

STOT - single exposure

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)

Carbon Black

STOT - repeated exposure

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)

Carbon Black

Skin Irrit. 2; Skin Irritant. EU Harmonised Classification SCL: % Concentration \geq 5%
Not classified – Non-irritant (rabbit) OECD 404

Mixture: Eye Irrit. 2; Causes serious eye irritation.
Eye Irrit. 2; Eye irritant. EU Harmonised Classification SCL % Concentration \geq 5%
Not classified – Non-irritant (rabbit) OECD 405

Mixture: Skin Sens. 1; May cause an allergic skin reaction.
Skin Sens. 1; Skin Sensitiser. EU Harmonised Classification

Not classified – Skin: Negative Guinea pig OECD406
Not classified –Respiratory sensitization: Negative Weight of evidence approach

Mixture: Based upon the available data, the classification criteria are not met.
Not classified - In vitro: Negative (Bacteria) OECD 472 In vivo: Negative (mouse) Chromosome aberration assay
Not classified - In vitro: Negative (Bacteria) OECD 471 In vivo: Positive (mouse) OECD 476

Mixture: Based upon the available data, the classification criteria are not met.
No specific effects and/or symptoms have been reported or known.
Oral: Not classified – NOEL (rat) 15-100 mg/kg OECD 453
Dermal: Not classified – NOEL (mouse) 100 mg/kg OECD 453
Not classified - Weight of evidence approach Not classified according to current CLP Regulations.
Carbon black is listed by IARC as a Group 2B substance (possibly carcinogenic), but IARC monographs Vol. 65 and 93 state that there is inadequate evidence to classify carbon black as carcinogenic to humans. Additionally, IARC monograph Vol. 93 states that no significant exposure to carbon black is thought to occur during the use of products in which carbon black is bound to other materials, such as rubber, printing ink or paint. Carbon black in this mixture is in a bound form.

Mixture: Based upon the available data, the classification criteria are not met.
No specific effects and/or symptoms have been reported or known.
Toxicity for reproduction: Not classified –NOAEL (rat) 50-540 mg/kg/d OECD 416 238 Days
Developmental Toxicity: Not classified – NOAEL (rat) > 540 mg/kg/d OECD 414 6-15 Days
Toxicity for reproduction: Not classified - Weight of evidence approach
Developmental Toxicity: Not classified - Weight of evidence approach

Mixture: Based upon the available data, the classification criteria are not met.
Not classified - No data

Not classified - No specific effects and/or symptoms have been reported or known. Inhalation: Weight of evidence approach

Mixture: Based upon the available data, the classification criteria are not met.
Oral: Not classified – NOAEL (rat) 50 mg/kg bw/day OECD 408 14week(s)
Inhalation: Not classified - No data
Dermal: Not classified - NOAEL (mouse) 100 mg/kg bw/day OECD 408 13week(s)
Oral: Not classified - No specific effects and/or symptoms have been reported or known (rat) study result 1985
Inhalation: Not classified - No effects observed NOAEL 1 mg/m³ (rat) NOAEL 1 mg/m³ (mouse) NOAEL 1 mg/m³ (Hamster)



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Aspiration hazard

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Carbon Black

Information on likely routes of exposure

Inhalation
Ingestion
Skin Contact
Eye Contact

Early onset symptoms related to exposure

Delayed health effects from exposure

Other information

NTP Report on Carcinogens
IARC Monographs

OSHA Designated Carcinogen
NIOSH Occupational Carcinogen List

Dermal: Not classified - No specific effects and/or symptoms have been reported or known NOEL 20% (mouse) study result 1958

Mixture: Based upon the available data, the classification criteria are not met.
Not classified - Not applicable

Not classified - Not applicable

Unlikely – accidental exposure
Unlikely – accidental exposure
Possible – accidental exposure
Unlikely – accidental exposure

Causes skin irritation. Causes eye irritation. May cause an allergic skin reaction.

Heating can generate vapors that could cause headaches, nausea, dizziness, and respiratory irritation if inhaled.

No components listed.
Titanium dioxide: Listed; Group 2B
Carbon Black: Listed; Group 2B
No other components listed.
No components listed.
Titanium dioxide: Listed
Carbon Black: Listed
No other components listed.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)
Carbon Black

Mixture: Aquatic Chronic 1; H411: Toxic to aquatic life with long lasting effects.
Aquatic Chronic 1; H411: Toxic to aquatic life with long lasting effects. EU Harmonised Classification
Not classified - LC0 (Fish) > 1 000 mg/L OECD 403

Persistence and degradability

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)
Carbon Black

The product is likely to persist in the environment.
Not biodegradable (Hydrolysis rate – 82%, 28 days) OECD 301 F

Not biodegradable - Inorganic

Bioaccumulative potential

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)
Carbon Black

The product has low potential for bioaccumulation.
BCF 3-31 QSAR
Log Kow \geq 2.918 25 °C EU Method A8
The substance has low potential for bioaccumulation.

Mobility in soil

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)
Carbon Black

The product is predicted to have low mobility in soil.
Log Koc 2.65 QSAR (SRC PCKOCWIN v2.0)
Distribution of: Air 0%, Sediment 1.9%, Soil 84.3%, Water 13.8% Mackay level III
The substance is predicted to have low mobility in soil. Insoluble in water.

Other adverse effects

EU Regulation (EC) N° 2037/2000 on substances that deplete the ozone layer:
No components of the mixture are listed
EU Regulation (EC) No 517/2014: No components of the mixture are listed



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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. Dispose of contents in accordance with local, state or national legislation. Recover or recycle if possible.

SECTION 14: TRANSPORT INFORMATION

	Road/Rail (ADR/RID)	Sea transport (IMDG)	Air (ICAO/IATA)
UN number	UN3082	UN3082	UN3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: Bisphenol – A – (epichlorhydrin) epoxy resin (number average molecular weight ≤ 700))	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: Bisphenol – A – (epichlorhydrin) epoxy resin (number average molecular weight ≤ 700))	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: Bisphenol – A – (epichlorhydrin) epoxy resin (number average molecular weight ≤ 700))
Transport hazard class(es)	9	9	9
Hazard Identification Number	90	Not applicable	Not applicable
Classification code:	M6	Not applicable	Not applicable
Packing group	III	III	III
Environmental hazards	Environmentally hazardous substance	Classified as a Marine Pollutant.	Environmentally hazardous substance
Special precautions for user			
Special Provisions	274, 335, 375, 601	274, 335, 375, 601	A97, A158, A197
Limited Quantities	5L	5L	30kg G
Excepted Quantities	E1	E1	Not applicable
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable		
Additional Information	None known		

SECTION 15: REGULATORY INFORMATION

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

US Federal Regulations

TSCA Inventory reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700): Listed
Carbon Black: Listed

TSCA Inventory Notification (Active-Inactive) Rule reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700): Listed; active substance; exempt list of active substances
Carbon Black: Listed; active substance; exempt list of active substances

TSCA Chemical Data Reporting (CDR) Rule reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700): Exempt from reporting under CDR
Carbon Black: Listed; subject to 25,000 lb reporting threshold

US State Regulations

Proposition 65 (California)

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700): Not Listed
Carbon Black: Listed

EU regulations

Wassergefährdungsklasse (Germany) Water hazard class: 2 (Self classification)
Volatile Organic Compound Content (%) 0%



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SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: - V1.1

Section 1 – Updated 'Details of the supplier of the safety data sheet' and Emergency Information.

Version 1.1
Revision Date 8th June 2020
Date Previous Issue: 24th August 2018

References:

Existing Safety Data Sheet (SDS). Existing ECHA registration(s) for reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700) (CAS No. 25068-38-6), Carbon Black (CAS No. 1333-86-4). EU Harmonised Classification(s) for bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700) (CAS No. 25068-38-6).

Classification of the substance or mixture	Classification Procedure
Skin corrosion/irritation, Category 2	Threshold Calculation
Skin Sensitisation, Category 1	Threshold Calculation
Eye irritation, category 2	Threshold Calculation

LEGEND

ADR/RID	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road / RID: Regulations concerning the international railway transport of dangerous goods
BCF	Bioconcentration factor (BCF)
CAS	CAS: Chemical Abstracts Service
DNEL	Derived No Effect Level
EC	EC: European Community
EU	European Union
IATA	IATA: International Air Transport Association
ICAO/IATA	ICAO: International Civil Aviation Organization / IATA: International Air Transport Association
IMDG	IMDG: International Maritime Dangerous Goods
LTEL	Long Term Exposure Limit
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Cooperation and Development
PBT	PBT: Persistent, Bioaccumulative and Toxic
PNEC	Predicted No Effect Concentration
STEL	Short Term Exposure Limit
UN	United Nations
vPvB	vPvT: very Persistent and very 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

Hazard Statement(s)

Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.

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.

Disclaimers

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