SAFETY DATA SHEET

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ACCORDING TO: Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals (Safe Work Australia, 2020) & GHS 7

SECTION 1: IDENTIFICATION

Product identifier used on the label	M-Bond Curing Agent – Type 10
Other means of identification	None
Recommended use of the chemical and restrictions on use	
Recommended use	Adhesives.
Restrictions on use	For professional users only. Anything other than the above.
Supplier/Manufacturer name, address and telephone number	
Supplier/Manufacturer	VISHAY MEASUREMENTS GROUP, INC.
Address	Post Office Box 27777 Raleigh, NC 27611 USA
Telephone	+1 919-365-3800
Fax	+1 919-365-3945
E-Mail (competent person)	mm.us@vpgsensors.com
Importer/Distributor name, address and telephone number	To be added by Australian importer/distributor
Name	
Address	
Telephone	
Emergency telephone number	61-290372994 (for spills and releases) CHEMTREC (24 hours)

SECTION 2: HAZARD(S) IDENTIFICATION

Classification of the substance or mixture

In accordance with the Safe Work Australia model Work Health and Safety Regulations (2020) & GHS 7

Acute toxicity (oral), Category 4
Acute toxicity (dermal), Category 4
Acute toxicity (inhalative), Category 2
Skin corrosion/irritation, Category 1A
Skin sensitization, Category 1
Eye Damage/Irritation, Category 1
Reproductive toxicity, Category 1
Specific target organ toxicity — repeated exposure, Category 2
Hazardous to the aquatic environment, Chronic, Category 3

Label elements

Hazard Symbol


Skull and crossbones


Health hazard


Corrosion

Signal Word(s): DANGER

Hazard Statement(s):

H302: Harmful if swallowed.
H312: Harmful in contact with skin.
H314: Causes severe skin burns and eye damage.
H317: May cause an allergic skin reaction.

	H330: Fatal if inhaled. H360Df: May damage the unborn child. Suspected of damaging fertility. H373: May cause damage to organs through prolonged or repeated exposure. H412: Harmful to aquatic life with long lasting effects.
Precautionary Statement(s)	P201: Obtain special instructions before use. P260: Do not breathe vapour. P280: Wear protective gloves/protective clothing/eye protection/face protection. P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P304 + P340 + P310: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310: Immediately call a POISON CENTER/doctor. P333+P313: If skin irritation or rash occurs: Get medical advice/attention. P308+P313: IF exposed or concerned: Get medical advice/attention.
Other Hazards	None assigned
Other Hazards that do not Result in Classification	None Known

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
Triethylenetetramine (TETA) Synonyms: 3,6-diazaoctanethylenediamin	>90	112-24-3	203-950-6	Acute toxicity (oral), Category 4 Acute toxicity (dermal), Category 4 Acute toxicity (inhalative), Category 2 Skin corrosion/irritation, Category 1A Skin sensitization, Category 1 Eye Damage/Irritation, Category 1 Hazardous to the aquatic environment, Chronic, Category 3
2-(2-Aminoethylamino)ethanol (AEEA)	< 2	111-41-1	203-867-5	Skin Corrosion/Irritation, Category 1B Skin Sensitisation, Category 1 Eye Damage, Category 1 Specific target organ toxicity — single exposure, Category 3 (Respiratory tract) Reproductive toxicity, Category 1B
2-Piperazin-1-ylethylamine	< 2	140-31-8	500-033-5	Acute toxicity (oral), Category 4 Acute toxicity (dermal), Category 3 Skin Corrosion/Irritation, Category 1B Skin Sensitisation, Category 1 Eye Damage, Category 1 Reproductive toxicity, Category 2 Specific target organ toxicity — repeated exposure, Category 1 Hazardous to the aquatic environment, Chronic, Category 3
Tetraethylenepentamine (TEPA) Synonym: 3,6,9-Triazaundecamethylenediamine	< 2	205-411-0	204-626-7	Acute toxicity (oral), Category 4 Acute toxicity (dermal), Category 4 Acute toxicity (inhalative), Category 2 Skin Corrosion/Irritation, Category 1A Skin Sensitisation, Category 1 Eye Damage, Category 1 Hazardous to the aquatic environment, Chronic, Category 2

Diethylenetriamine (DETA) Synonym: 2,2'-iminodi(ethylamine)	< 1	111-40-0	203-986-2	Acute toxicity (oral), Category 4 Acute toxicity (dermal), Category 4 Acute toxicity (inhalative), Category 2 Skin Corrosion/Irritation, Category 1A Skin Sensitisation, Category 1 Eye Damage, Category 1 Specific target organ toxicity — single exposure, Category 3 (Respiratory tract)

SECTION 4: FIRST AID MEASURES

Description of first aid measures

First aid facilities	Eyewash facilities should be stationed close to workplace where possible.
Self-protection of the first aider	Use personal protective equipment as required. Wear appropriate personal protective equipment, avoid direct contact. Ensure adequate ventilation. [In case of inadequate ventilation] wear respiratory protection. Do not breathe vapour. Avoid all contact. Contaminated clothing should be laundered before reuse. Avoid contact during pregnancy/while nursing.
Inhalation	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Immediately call a POISON CENTER/doctor. Apply artificial respiration only if patient is not breathing but do not use mouth to mouth resuscitation.
Skin Contact	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Continue irrigation until medical attention can be obtained. Immediately call a POISON CENTER/doctor.
Eye Contact	IF IN EYES: Flush eyes with water for at least 15 minutes while holding eyelids open. Immediately call a POISON CENTER/doctor. Continue irrigation until medical attention can be obtained. Treatment by an ophthalmologist due to possible caustic burn of the eyes may be required.
Ingestion	IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. Continue irrigation until medical attention can be obtained. Do NOT induce vomiting.
Most important symptoms and effects, both acute and delayed	Fatal if inhaled. Harmful if swallowed. Harmful in contact with skin. Causes severe skin burns and eye damage. May cause an allergic skin reaction. May damage the unborn child. Suspected of damaging fertility. May cause damage to organs through prolonged or repeated exposure.
Indication of immediate medical attention and special treatment needed, if necessary	Treat symptomatically
Notes to a physician:	IF IN EYES: Obtain prompt consultation, preferably from an ophthalmologist. Chemical eye burns may require extended irrigation.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media	Extinguish with carbon dioxide, dry chemical, foam or waterspray.
Unsuitable extinguishing Media	Do not use water jet.
Special hazards arising from the chemical	Not flammable. Reacts with metals liberating hydrogen. Reaction products may include hydrogen cyanide. May decompose in a fire giving off toxic fumes. Carbon monoxide, Carbon dioxide. May react with some metals including aluminum, magnesium, and zinc, resulting in evolution of phosphorus oxides.
Special protective equipment and precautions 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.

Hazchem Code 2X

SECTION 6: ACCIDENTAL RELEASE MEASURES

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. Do not breathe vapour. Avoid all contact. Contaminated clothing should be laundered before reuse. Avoid contact during pregnancy/while nursing.

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.

Methods and material for containment and cleaning up
Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal. Cautiously neutralize remainder. Then wash away with plenty of water. 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. Ensure operatives are trained to minimise exposures. Avoid all contact. Do not breathe vapour. Avoid contact during pregnancy/while nursing. 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.

Conditions for safe storage, including any incompatibilities
Store in a well-ventilated place. Keep container tightly closed. Keep cool. Keep away from heat, sources of ignition and direct sunlight.

Storage temperature
Ambient. 5 - 25℃

Storage life
Stable under normal conditions.

Incompatible materials
Copper, Aluminium, or Brass. Keep away from: Oxidizing agents and Acids. May be corrosive to metals. (Aluminium, Copper and Zinc).

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Occupational Exposure Limits

Chemical name	Synonym(s)	CAS No.	TWA (ppm)	TWA (mg/m^3)	STEL (ppm)	STEL (mg/m^3)	Advisory carcinogen category	Other advisory information	Notes
Diethylene triamine (DETA)	2,2'-Diaminodiethylamine 1,4,7-Tri-(aza)-heptane	111-40-0	1	4.2	-	-	-	Sk; Sen	-

Source: Safe Work Australia Workplace Exposure Standards for Airbourne Contaminants (2019)
Abbreviations:
Sk: Absorption through the skin may be a significant source of exposure.
Sen: Respiratory and/or Skin Sensitiser.

Biological exposure indicies
Not established

Appropriate engineering controls
Ensure operatives are trained to minimise exposures. Ensure adequate ventilation. or Use appropriate containment. Atmospheric levels should be controlled in compliance with the occupational exposure limit. Guarantee that the eye flushing systems and safety showers are located close to the working place.

Individual protection measures, such as personal protective equipment (PPE)
General hygiene measures for the handling of chemicals are applicable. Keep good industrial hygiene. Wash hands before breaks and after work. Keep work clothes separately. 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).
Skin protection 	**Hand protection:** Wear impervious gloves (EN374). Protective index 6, corresponding > 480 minutes of permeation time according to EN 374. Gloves should be changed regularly to avoid permeation problems. Breakthrough time of the glove material: refer to the information provided by the gloves' producer. Neoprene or rubber gloves are recommended. Recommended: Polychloroprene - CR (Minimum thickness; 0.5mm), Nitrile rubber (Minimum thickness; 0.4mm) **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 (EN141 or EN405) may be appropriate.
Thermal hazards	Not applicable.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid
Colour	Yellow
Odour	Amine-like Odour
Melting point and freezing point	Not established.
Boiling point or initial boiling point and boiling range	277℃
Flammability	Not applicable - Liquid
Lower and upper explosion limit or lower and upper flammability limit	Flammable Limits (Lower) (%v/v): 1 @ 185℃ Flammable Limits (Upper) (%v/v): >6.4 @ 185℃
Flash point	148℃ [Closed cup]
Auto-ignition temperature	Not established.
Decomposition temperature	Not established.
pH	Not established.
Kinematic viscosity	Not established.
Solubility	100% (Water)
Partition coefficient n-octanol/water (log value)	Not established.
Vapour pressure	<1 kPa at 20ºC
Density and Relative density	0.98 g/cm^3 (H2O = 1)
Relative vapour density	5 (Air = 1)
Particle characteristics	Not applicable (Liquid)

Additional parameters

Evaporation rate	2.83 (BuAc = 1)
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	Keep away from heat, sources of ignition and direct sunlight.
Incompatible materials	Keep away from: Oxidizing agents and Acids. May be corrosive to metals. (Aluminium, Copper and Zinc).
Hazardous decomposition product(s)	Decomposes in a fire giving off toxic fumes: Nitrogen oxides, Carbon monoxide and Carbon dioxide.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects
(Substances in preparations / mixtures)
Acute toxicity

Ingestion	Acute toxicity (oral), Category 4; Harmful if swallowed.
	Acute Toxicity Estimate Mixture Calculation: Estimated LD50 >300 - ≤2000 mg/kg bw/day.
Triethylenetetramine (TETA)	Acute toxicity (oral), Category 4. (NICNAS IMAP Assessment)
2-Piperazin-1-ylethylamine	Acute toxicity (oral), Category 4
	LD50 (oral,rat) mg/kg: 1680 (Gigiena i Sanitariya, 1986)
Tetraethylenepentamine (TEPA)	Acute toxicity (oral), Category 4. (NICNAS IMAP Assessment)
Diethylenetriamine (DETA)	Acute toxicity (oral), Category 4. (NICNAS IMAP Assessment)
Inhalation	Acute toxicity (inhalative), Category 2; Fatal if inhaled.
	Acute Toxicity Estimate Mixture Calculation: Estimated LD50 >0.5 - ≤2mg/l.
Triethylenetetramine (TETA)	Acute toxicity (inhalative), Category 2 (NICNAS IMAP Assessment)
Tetraethylenepentamine (TEPA)	Acute toxicity (inhalative), Category 2 (NICNAS IMAP Assessment)
Diethylenetriamine (DETA)	Acute toxicity (inhalative), Category 2 (NICNAS IMAP Assessment)
Dermal	Acute toxicity (dermal), Category 4; Harmful in contact with skin.
	Acute Toxicity Estimate Mixture Calculation: Estimated LC50 >1000 - ≤2000 mg/kg bw/day.
Triethylenetetramine (TETA)	Acute toxicity (dermal), Category 4. (NICNAS IMAP Assessment)
2-Piperazin-1-ylethylamine	Acute toxicity (dermal), Category 3.
	LD50 (rabbit, male): 8.66 mg/kg bw (Smyth et al, 1962)
Tetraethylenepentamine (TEPA)	Acute toxicity (dermal), Category 4 (NICNAS IMAP Assessment)
Diethylenetriamine (DETA)	Acute toxicity (dermal), Category 4 (NICNAS IMAP Assessment)
Skin corrosion/irritation	Skin corrosion/irritation, Category 1A; Causes severe skin burns and eye damage.
Triethylenetetramine (TETA)	Skin corrosion/irritation, Category 1A
2-(2-Aminoethylamino)ethanol (AEEA)	Skin corrosion/irritation, Category 1B
2-Piperazin-1-ylethylamine	Skin corrosion/irritation, Category 1B
Tetraethylenepentamine (TEPA)	Skin corrosion/irritation, Category 1A
Diethylenetriamine (DETA)	Skin corrosion/irritation, Category 1A
Serious eye damage/irritation	Eye Damage/Irritation, Category 1
All components:	Eye Damage/Irritation, Category 1
Respiratory or skin sensitization	Skin sensitization, Category 1; May cause an allergic skin reaction.
All components:	Skin sensitization, Category 1
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	Reproductive toxicity, Category 1; May damage the unborn child. Suspected of damaging fertility.
2-(2-Aminoethylamino)ethanol (AEEA)	Reproductive toxicity, Category 1; May damage the unborn child. Suspected of damaging fertility.
	Test Result: NOAEL 250 mg/kg bw/day (OECD 421)
	Test Result: NOAEL 50 mg/kg bw/day (OECD 414)
2-Piperazin-1-ylethylamine	Reproductive toxicity, Category 2
	NOAEL 75 mg/kg bw/day (OECD 414)
STOT - single exposure	Based upon the available data, the classification criteria are not met.

STOT - repeated exposure	Specific target organ toxicity — repeated exposure, Category 2; May cause damage to organs through prolonged or repeated exposure.
2-Piperazin-1-ylethylamine	Specific target organ toxicity — repeated exposure, Category 1; Causes damage to organs through prolonged or repeated exposure: Respiratory tract NOAEL (Oral) 2000 mg/l (OECD 422) NOEC (Inhalation) 0.2 mg/m³ (OECD 413)
Aspiration hazard	Based upon the available data, the classification criteria are not met.

Information on likely routes of exposure

Inhalation	Possible route of exposure.
Ingestion	Unlikely route of exposure.
Skin Contact	Possible route of exposure.
Eye Contact	Unlikely route of exposure.

Early onset symptoms related to exposure	Fatal if inhaled. Harmful if swallowed. Harmful in contact with skin. Causes severe skin burns and eye damage. May cause an allergic skin reaction.
Delayed health effects from exposure	May damage the unborn child. Suspected of damaging fertility. May cause damage to organs through prolonged or repeated exposure.
Exposure levels and health effects	See section 8
Interactive effects	None Known
Other information	None Known
NTP Report on Carcinogens	No components listed.
IARC Monographs	No components listed.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	Hazardous to the aquatic environment, Chronic, Category 3; Harmful to aquatic life with long lasting effects. Estimated Mixture LC50 >10 to ≤ 100 mg/l (Fish)
Triethylenetetramine (TETA)	Hazardous to the aquatic environment, Chronic, Category 3 EC50 (Daphnia magna) 31.1 mg/l (48 hour) (Unnamed, 1989)
2-Piperazin-1-ylethylamine	Hazardous to the aquatic environment, Chronic, Category 3 EC50 (Daphnia magna) 58 mg/l (48 hour) (OECD 202)
Tetraethylenepentamine (TEPA)	Hazardous to the aquatic environment, Chronic, Category 2. No data. EU Harmonised Classification
Persistence and degradability	No data for the mixture as a whole. Part of the components are poorly biodegradable.
Triethylenetetramine (TETA)	Not readily biodegradable. (OECD 301 D)
2-Piperazin-1-ylethylamine	ECHA Registration Endpoint summary: Little or no biodegradation has been observed (OECD 301 F)
Tetraethylenepentamine (TEPA)	No data. EU Harmonised Classification
Bioaccumulative potential	No data for the mixture as a whole. The product is predicted to have low potential for bioaccumulation.
Triethylenetetramine (TETA)	The substance has low potential for bioaccumulation.
2-Piperazin-1-ylethylamine	The substance has low potential for bioaccumulation.
Tetraethylenepentamine (TEPA)	No data. EU Harmonised Classification
Mobility in soil	No data for the mixture as a whole. The product is predicted to have high mobility in soil. Soluble in water.
Triethylenetetramine (TETA)	The substance is predicted to have high mobility in soil.
2-Piperazin-1-ylethylamine	The substance is predicted to have low mobility in soil.
Tetraethylenepentamine (TEPA)	No data. EU Harmonised Classification
Other adverse effects	None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Safe handling and disposal methods	This material and its container must be disposed of as hazardous waste. Dispose of wastes in an approved waste disposal facility. Send after pre-treatment to a appropriate hazardous waste incinerator facility according to legislation. Do not reuse empty containers.
Disposal of contaminated packaging	Containers of this material may be hazardous when empty since they retain product residue. Handle contaminated packages in the same way as the substance itself.
Environmental regulations	Avoid release to the environment. Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. Dispose of contents in accordance with local, state or national legislation.

SECTION 14: TRANSPORT INFORMATION

	ADG	**IMDG**	**IATA/ICAO**
UN number	UN 2259	UN 2259	UN 2259
Proper Shipping Name	TRIETHYLENETHETRAMINE	TRIETHYLENETHETRAMINE	TRIETHYLENETHETRAMINE
Transport hazard class(es)	8	8	8
Packing group	II	II	II
Environmental hazards	Not classified	Not classified as a Marine Pollutant.	Not classified
Special precautions for user	See Section: 2		
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.		
Hazchem code	2X		

SECTION 15: REGULATORY INFORMATION

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

International Regulations (for example)	
Montreal Protocol/Stockholm Convention/ Rotterdam Convention/ Basel Convention / MARPOL	All chemicals are not listed
National Regulations	
Australian Inventory of Chemical Substances (AICS)	All components are listed on AICS
NICNAS - Priority Existing Chemicals	All chemicals are not listed
NICNAS - IMAP Framework	Triethylenetetramine (TETA); 2-(2-Aminoethylamino)ethanol (AEEA) and Diethylenetriamine (DETA): Tier I: Environment Assessment & Tier II: Human Health Assessment Tetraethylenepentamine (TEPA): Tier II: Human Health Assessment
NICNAS - High Volume Industrial Chemical List	All chemicals are not listed
National Pollutant Inventory	All chemicals are not listed
The Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)	All chemicals are not listed

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: not applicable – V1.0

Version: 1.0 **Revision Date:** not applicable – V1.0 **Date of First Issue:** 23/02/2021

References:

Safety Data Sheets for ingoing ingredients. National Industrial Chemical Notification and Assessment Scheme (NICNAS).
EU Data: Harmonised Classification(s) for Triethylenetetramine (TETA) (CAS No. 112-24-3), 2-(2-Aminoethylamino)ethanol (AEEA) (CAS No. 111-41-1), 2-Piperazin-1-ylethylamine (CAS No. 140-31-8), Tetraethylenepentamine (TEPA) (CAS No. 112-57-2) and Diethylenetriamine (DETA) (CAS

No. 111-40-0). Existing ECHA registration(s) for 2-(2-Aminoethylamino)ethanol (AEEA) (CAS No. 111-41-1), 2-Piperazin-1-ylethylamine (CAS No. 140-31-8) and Diethylenetriamine (DETA) (CAS No. 111-40-0).

NICNAS IMAP Human Health Assessments:
TETA, TEPA and DETA: https://www.nicnas.gov.au/chemical-information/imap-assessments/imap-group-assessment-report?assessment_id=1384
AEEA: https://www.nicnas.gov.au/chemical-information/imap-assessments/imap-assessment-details?assessment_id=2060

Literature References

1. Smyth, HF, Carpenter, CP, Well, CS, Pozzani, UC & Stregel, JA (1962) Range-Finding Toxicity Data: List VI, p95-107.

The mixture is classified in accordance with Safe Work Australia model Work Health and Safety Regulations (2020) & GHS 7

LEGEND

ADG	Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)
IATA	International Air Transport Association
IARC	International Agency for Research on Cancer
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
LTEL	Long term exposure limit
NICNAS	National Industrial Chemicals Notification and Assessment Scheme
NTP	National Toxicology Program
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
STEL	Short term exposure limit
TWA	Time Weighted Average

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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