SAFETY DATA SHEET

M-Coat JA Part A

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878

www.vpgsensors.com
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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name	M-Coat JA Part A
Product Code	Not applicable
Unique Formula Identifier (UFI)	Not applicable
Nanoform	The product does not contain nanoparticles.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s)	Sealants
Uses Advised Against	None Known

1.3 Details of the supplier of the safety data sheet

Company Identification	VISHAY MEASUREMENTS GROUP GMBH Tatschenweg 1 74078 Heilbronn Deutschland
Telephone	+49 (0) 7131 39099-0
Fax	+49 (0) 7131 39099-229
E-Mail (competent person)	mm.de@vpgsensors.com

1.4 Emergency telephone number

National Poisons Information Service (United Kingdom)	+44 (0) 3448 920111	24 hr. emergency phone number Healthcare Professionals ONLY
NHS 24	111	Members of Public
Emergency Phone No.	(00-1) 703-527-3887	CHEMTREC (24 hours)
Languages spoken	All official European languages.	

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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

Acute Tox. 4; H302
Skin Sens. 1; H317
STOT RE 1; H372
Aquatic Chronic. 1; H410

2.2 Label elements

According to Regulation (EC) No. 1272/2008 (CLP)

Product Name: M-Coat JA Part A

Hazard Pictogram(s):

Signal Word(s): DANGER

Contains: Bis (piperidinothiocarbonyl) tetrasulphide and Manganese dioxide

Hazard Statement(s):

H302: Harmful if swallowed.
H317: May cause an allergic skin reaction.
H372: Causes damage to organs through prolonged or repeated exposure.
H410: Very toxic to aquatic life with long lasting effects.

Precautionary Statement(s)	P260: Do not breathe mist/vapours/spray. P270: Do not eat, drink or smoke when using this product. P273: Avoid release to the environment. P280: Wear protective gloves/protective clothing/eye protection/face protection. P314: Get medical advice/attention if you feel unwell. P391: Collect spillage.
Supplemental information	None assigned

2.3 Other hazards None

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 classification
Manganese dioxide	15 - 40	1313-13-9	215-202-6	Not yet assigned in the supply chain	Acute Tox. 4; H302 Acute Tox. 4; H332 STOT RE 1 ; H372
Terphenyl, hydrogenated	10 - 30	61788-32-7	262-967-7	Not yet assigned in the supply chain	Aquatic Chronic. 2: H411
Bis (piperidinothiocarbonyl) tetrasulphide	1 - 5	120-54-7	204-406-0	Not yet assigned in the supply chain	Skin Sens. 1 ; H317 Aquatic Chronic. 2; H411
Terphenyl	1 - 5	26140-60-3	247-477-3	Not yet assigned in the supply chain	Aquatic Acute 1; H400 Aquatic Chronic 1; H410

Specific concentration limit (SCL) & M-factor

Chemical identity of the substance	CAS No.	EC No.	Specific concentration limit (SCL)	M-factor
Terphenyl	26140-60-3	247-477-3	-	10 (Chronic)

Note: For full text of H phrases see section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Self-protection of the first aider	Avoid breathing mist/vapours/spray. Ensure adequate ventilation. Wear suitable protective clothing. Wear suitable respiratory protective equipment if exposure to high levels of material are likely. Avoid contact with skin. Contaminated clothing should be laundered before reuse. Do not use mouth-to-mouth resuscitation. Eyewash facilities should be stationed close to workplace where possible.
Inhalation	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
Skin Contact	IF ON SKIN: Gently wash with plenty of soap and water. Remove contaminated clothing and wash clothing before reuse. If irritation (redness, rash, blistering) develops, get medical attention.

	Eye Contact	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.
	Ingestion	IF SWALLOWED: Rinse mouth. Do not give anything by mouth to an unconscious person. Do NOT induce vomiting. If symptoms occur obtain medical attention.
4.2	**Most important symptoms and effects, both acute and delayed**	Harmful if swallowed. May cause an allergic skin reaction. Causes damage to organs through prolonged or repeated exposure.
4.3	**Indication of any immediate medical attention and special treatment needed**	Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1	**Extinguishing media**	
	Suitable Extinguishing media	As appropriate for surrounding fire. Extinguish preferably with foam, carbon dioxide or dry chemical.
	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. Decomposes in a fire giving off toxic fumes: Carbon monoxide, Carbon dioxide, Nitrogen oxides, Sulphur oxides, metal oxides.
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.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1	**Personal precautions, protective equipment and emergency procedures**	Caution - spillages may be slippery. Eliminate sources of ignition. Shut off leaks if without risk. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Do not breathe vapour. Use personal protective equipment as required. Remove contaminated clothing. Contaminated work clothing should not be allowed out of the workplace.
6.2	**Environmental precautions**	Avoid release to the environment. Do not allow to enter drains, sewers or watercourses.
6.3	**Methods and material for containment and cleaning up**	Ensure suitable personal protection during removal of spillages. Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a lidded container for disposal or recovery. Ventilate the area and wash spill site after material pick-up is complete. Dispose of this material and its container as hazardous waste. Allow small spillages to evaporate provided there is adequate ventilation.
	Large spillages:	Stop leak if safe to do so. Keep upwind. Adsorb spillages onto sand, earth or any suitable adsorbent material. Ventilate the area and wash spill site after material pick-up is complete. Transfer to a container for disposal. Dispose of this material and its container as hazardous waste (2008/98/EEC).
6.4	**Reference to other sections**	See Section: 8, 13

SECTION 7: HANDLING AND STORAGE

7.1	**Precautions for safe handling**	Ensure adequate ventilation. Use personal protective equipment as required. Do not breathe vapour. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the workplace.
7.2	**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	Store above (℃): 5 (41 ℉)
	Storage life	Stable under normal conditions.
	Incompatible materials	Keep away from: Oxidizing agents and Acids. Keep from direct sunlight.
7.3	**Specific end use(s)**	See Section: 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

United Kingdom

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note
Magnesite inhalable dust respirable dust	546-93-0	 - -	 10 4	 - -	 - -	-
Talc, respirable dust	14807-96-6	-	1	-	-	-
Terphenyls, all isomers	26140-60-3	-	-	0.5	4.8	-

Source: UK WEL: Workplace Exposure Limit (UK HSE EH40)

Ireland

SUBSTANCE	CAS No.	Occupational Exposure Limit Value (8-hour reference period)		Occupational Exposure Limit Value (15-minute reference period)		Notes
		ppm	mg/m³	ppm	mg/m³	
Talc total inhalable dust respirable dust	14807-96-6	 - -	 10 0.8	 - -	 - -	 - -
Terphenyls, all isomers	26140-60-3	-	-	0.5	5	-

Source: 2021 Code of Practice for Safety, Health and Welfare at Work (Chemical Agents) Regulation (2001 – 2021) and the Safety, Health and Welfare at Work (Carcinogens) Regulations (2001 – 2019); Health and Safety Authority

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. Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems. Eyewash facilities should be stationed close to workplace where possible.

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. Avoid breathing mist/vapours/spray. 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.

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

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). Gloves should be changed regularly to avoid permeation problems. Breakthrough time of the glove material: refer to the information provided by the gloves' producer. Recommended: PVC / Nitrile rubber.

During full contact:
Protective index 6, corresponding > 480 minutes of permeation time according to EN 374.
Nitrile rubber (Minimum thickness: 0.33 mm)
Butyl rubber (Minimum thickness: 0.5 mm)

During splash contact:
At least protective index 5, corresponding > 240 minutes of permeation time according to EN 374
Polychloroprene - CR (Minimum thickness: 0.5 mm)

Unsuitable gloves materials:
Natural rubber/natural latex, Polyvinyl chloride - PVC.

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

Respiratory protection

Use only in well-ventilated areas. In case of inadequate ventilation wear respiratory protection. A suitable mask with filter type A (EN141 or EN405) may be appropriate.

High concentrations: Wear suitable respiratory equipment. Recommended: Self-contained breathing apparatus (DIN EN 137)

Thermal hazards — Not applicable

8.2.3 Environmental exposure controls — Avoid release to the environment. Do not allow to enter drains, sewers or watercourses.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Colour	Black
Odour	Not determined.
Melting point and freezing point	No data available
Boiling point or initial boiling point and boiling range	> 37.78 ℃
Flammability	not applicable - Liquid
Lower and upper explosion limit or lower and upper flammability limit	No data available
Flash point	98.89 ℃ [Closed cup]
Auto-ignition temperature	No data available
Decomposition temperature	No data available
pH	No data available
Kinematic viscosity	No data available
Solubility	Insoluble in cold water.
Partition coefficient: n-octanol/water (log value)	No data available
Vapour pressure	0.27 kPa (2.03 mm Hg) @ 20℃
Density and/or relative density	1.65
Relative vapour density	Terphenyl, hydrogenated: 7.95 (Air = 1)
Particle characteristics	not applicable

9.2 Other information

Explosive properties	Not explosive.
Oxidising properties	Not oxidising.

Viscosity	> 0.21 cm2/s @ 40℃

SECTION 10: STABILITY AND REACTIVITY

10.1	**Reactivity**	Stable under normal conditions.
10.2	**Chemical stability**	Stable under normal conditions. Hazardous polymerisation will not occur.
10.3	**Possibility of hazardous reactions**	Hazardous polymerisation will not occur.
10.4	**Conditions to avoid**	Keep away from heat, sources of ignition and direct sunlight.
10.5	**Incompatible materials**	Keep away from: Oxidizing agents and Acids.
10.6	**Hazardous decomposition product(s)**	Decomposes in a fire giving off toxic fumes: Carbon monoxide, Carbon dioxide, Nitrogen oxides, Sulphur oxides, metal oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity		
Ingestion		Mixture: Acute Tox. 4; H302: Harmful if swallowed. Acute Toxicity Estimate Mixture Calculation: Estimated Estimated LD50 >300 - ≤2000 mg/kg bw/day
	Manganese dioxide	Acute Tox. 4; H302: Harmful if swallowed. ECHA registration dossier
Inhalation		Based upon the available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: Estimated LC50 > 5 mg/l (dust/mist
Skin Contact		Mixture: Based upon the available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: Estimated LD50 > 2000 mg/kg bw/day
Skin corrosion/irritation		Mixture: Based upon the available data, the classification criteria are not met.
Serious eye damage/irritation		Mixture: Based upon the available data, the classification criteria are not met.
Respiratory or skin sensitization		Mixture: Skin Sens. 1; H317: May cause an allergic skin reaction.
	Bis (piperidinothiocarbonyl) tetrasulphide	Skin Sens. 1; H317: May cause an allergic skin reaction. EU classification and labelling inventory, ≥30 Notifiers
Germ cell mutagenicity		Mixture: Based upon the available data, the classification criteria are not met.
Carcinogenicity		Mixture: Based upon the available data, the classification criteria are not met.
Reproductive toxicity		Mixture: Based upon the available data, the classification criteria are not met.
STOT - single exposure		Mixture: Based upon the available data, the classification criteria are not met.:
STOT - repeated exposure		Mixture: STOT RE 1; H372: Causes damage to organs through prolonged or repeated exposure:
	Manganese dioxide	STOT RE 1; H372: Causes damage to organs through prolonged or repeated exposure: brain and central nervous system (Inhalation) Repeat dose studies have shown the potential to cause neurotoxicity (inhalation) Roels et al (1992)
Aspiration hazard		Mixture: Based upon the available data, the classification criteria are not met.

11.2	**Information on other hazards**	
11.2.1	Endocrine disrupting properties	This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.
11.2.2	Other information	None

SECTION 12: ECOLOGICAL INFORMATION

12.1	**Toxicity**	Mixture: Hazardous to the aquatic environment, Acute - Category 2 H401: Toxic to aquatic life. Hazardous to the aquatic environment, Chronic - Category 1 H410: Very toxic to aquatic life with long lasting effects.
	Terphenyl, hydrogenated	Aquatic Chronic. 2: H411: Toxic to aquatic life with long lasting effects. LC50 (fish) mg/l: 0.025 LOEC (Fish)mg/L : 0.041 NOEC (Fish)mg/L: 0.0048

		ECHA registration dossier
	Bis (piperidinothiocarbonyl) tetrasulphide	Aquatic Chronic. 2: H411: Toxic to aquatic life with long lasting effects. EU classification and labelling inventory, ≥30 Notifiers
	Terphenyl	Aquatic Acute 1; H400: Very toxic to aquatic life. EC50 (Rainbow trout)mg/L: 27 EC50 (Daphnia magna) µg/L: 22 Aquatic Chronic 1; H410: Very toxic to aquatic life with long lasting effects. NOEC Pimephales promelas (fathead minnow) mg/L: 0.037 M-factor (Chronic): 10 ECHA registration dossier
12.2	**Persistence and degradability**	No data for the mixture as a whole.
	Manganese dioxide	Not applicable for inorganic substances.
	Terphenyl, hydrogenated	Inherently Biodegradable
	Bis (piperidinothiocarbonyl) tetrasulphide	No data available
	Terphenyl	Not readily biodegradable. In Water: persistent.
12.3	**Bioaccumulative potential**	No data for the mixture as a whole.
	Manganese dioxide	Not applicable for inorganic substances.
	Terphenyl, hydrogenated	The substance has high potential for bioaccumulation. BCF: 5200
	Bis (piperidinothiocarbonyl) tetrasulphide	No data available
	Terphenyl	The substance has low potential for bioaccumulation. BCF: 25 - 129
12.4	**Mobility in soil**	No data for the mixture as a whole.
	Manganese dioxide	The substance has low mobility in soil. Kd: ~1355 (OECD 106)
	Terphenyl, hydrogenated	The substance has low mobility in soil. LogKoc: 4.2 – 6.1
	Bis (piperidinothiocarbonyl) tetrasulphide	No data available
	Terphenyl	The substance has low mobility in soil. LogKoc: 4.2 – 5.8
12.5	**Results of PBT and vPvB assessment**	Not classified as PBT or vPvB.
12.6	**Endocrine disrupting properties**	This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.
12.7	**Other adverse effects**	None known

SECTION 13: DISPOSAL CONSIDERATIONS

13.1	**Waste treatment methods**	This material and its container must be disposed of as hazardous waste. Dispose of wastes in an approved waste disposal facility. Waste classification according to Directive 2008/98/EC (Waste Framework Directive)**:** HP5, HP6, HP13, HP14
13.2	**Additional Information**	Dispose of contents in accordance with local, state or national legislation.

SECTION 14: TRANSPORT INFORMATION

		ADR/RID	**ADN**	**IMDG**	**IATA/ICAO**
14.1	**UN number or ID number**	UN 3082	UN 3082	UN 3082	UN 3082
14.2	**UN proper shipping name**	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Terphenyl)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Terphenyl)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Terphenyl)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Terphenyl)
14.3	**Transport hazard class(es)**	9	9	9	9
14.4	**Packing group**	III	III	III	III
14.5	**Environmental hazards**	ENVIRONMENTALLY HAZARDOUS	ENVIRONMENTALLY HAZARDOUS	CLASSIFIED AS A MARINE POLLUTANT.	ENVIRONMENTALLY HAZARDOUS
14.6	**Special precautions for user**	See Section: 2			

14.7	**Maritime transport in bulk according to IMO instruments**	Not applicable	Not applicable	Not applicable	Not applicable
14.8	**Additional information**				

SECTION 15: REGULATORY INFORMATION

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

15.1.1 EU regulations

Use restriction according to REACH annex XVII, no.:	Not restricted
Substance(s) of Very High Concern (SVHCs)	Terphenyl, hydrogenated - Listed 27/06/2018: vPvB (Article 57e).
Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]	E1
Restrictions of occupation:	Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.
To follow:	Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work

15.1.2 National regulations

Germany

Water hazard class (WGK)	Water hazard class: 2 (Self classification)

15.2 Chemical Safety Assessment A REACH chemical safety assessment has not been carried out.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: New SDS Regulation 2020/878 format, all sections have been updated to include new information. Please review SDS with care.

References:

Existing Safety Data Sheet (SDS).
Harmonised Classification(s) for Manganese dioxide (CAS No. 1313-13-9).
Existing ECHA registration(s) for Manganese dioxide (CAS No. 1313-13-9), Terphenyl, hydrogenated (CAS No. 61788-32-7), Terphenyl (CAS No. 26140-60-3).
The classification and labelling inventory for Bis (piperidinothiocarbonyl) tetrasulphide (CAS No. 120-54-7), Polyphenyls, quater- and higher, partially hydrogenated (CAS No. 68956-74-1

Literature References:

1. Roels HA, Ghyselen P, Buchet JP, et al. 1992. Assessment of the permissible exposure level to manganese in workers exposed to manganese dioxide dust. Br J Ind Med 49:25-34.

EU Classification: This Safety Data Sheet was prepared in accordance with EC Regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878

Classification of the substance or mixture According to Regulation (EC) No. 1272/2008 (CLP)	Classification Procedure
Acute Tox. 4; H302	Threshold Calculation
Skin Sens. 1; H317	Threshold Calculation
STOT RE 1; H372	Threshold Calculation
Aquatic Chronic. 1; H410	Summation Calculation

LEGEND

ADR European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
BCF	Bioconcentration factor (BCF)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DNEL	Derived no effect level
EU	European Union
EC	European Community
ECHA	European Chemicals Agency
EN	European Standard
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
LC50	Lethal concentration at which 50% of the population is killed
LD50	Lethal dose at which 50% of the population is killed
LOEC	Lowest observed effect concentration
LTEL	Long term exposure limit
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Cooperation and Development
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
TWA	Time Weighted Average
STEL	Short term exposure limit
vPvB	very Persistent and very Bioaccumulative
UK	United Kingdom
UN	United Nations

Hazard classification / Classification code:	**Hazard Statement(s)**
Acute Tox. 4; Acute Toxicity, Category 4	H302: Harmful if swallowed.
Skin Sens. 1; Skin Sensitisation, Category 1	H317: May cause an allergic skin reaction.
Acute Tox. 4; Acute Toxicity, Category 4	H332: Harmful if inhaled.
STOT RE 1; Specific target organ toxicity — repeated exposure, Category 1	H372: Causes damage to organs through prolonged or repeated exposure.
Aquatic Acute 1; Hazardous to the aquatic environment, acute, Category 1	H400: Very toxic to aquatic life.
Aquatic Acute 2; Hazardous to the aquatic environment, Acute, Category 2	H401: Toxic to aquatic life.
Aquatic Chronic 1; Hazardous to the aquatic environment, Chronic , Category 1	H410: Very toxic to aquatic life with long lasting effects.
Aquatic Chronic 2; Hazardous to the aquatic environment, Chronic , Category 2	H411: Toxic to aquatic life with long lasting effects.

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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