



SAFETY DATA SHEET



Version: 1.3 Revision date: 17th June 2020
ACCORDING TO OSHA HCS (29 CFR 1910.1200)

S1009 Adhesive - Part A

SECTION 1: IDENTIFICATION

Product identifier Product Name	S1009 Adhesive – Part A	
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 CN: CHEMTREC 1-800-424-9300 Outside North America: 1-703-527-3887 (Collect calls accepted)	Operational 24 hours, 7 days
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 Skin Sensitisation, Category 1 Eye Irritation, Category 2	
Label elements Product Name Contains:	S1009 Adhesive – Part A 4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer	
Hazard Symbol		
Optional Hazard Symbol		
Signal Word(s) Hazard Statement(s)	Warning Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.	
Precautionary Statement(s)	Avoid breathing mist/vapours/spray. Wash hands and exposed skin thoroughly after handling.	



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Wear protective gloves/protective clothing/eye protection/face protection.
Contaminated work clothing should not be allowed out of the workplace.

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.
Avoid release to the environment.
Dispose of contents in accordance with local, state or national legislation.

Other hazards

Environmental hazards

Hazardous to the aquatic environment, Chronic, Category 2; Toxic to aquatic life with long lasting effects. Avoid release to the environment.

Percent of the mixture consists of ingredient(s) of unknown acute toxicity:

0% of the mixture consists of ingredients of unknown acute oral toxicity.
0% of the mixture consists of ingredients of unknown acute dermal toxicity.

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
4,4'-Isopropylidenediphenol-Epichlorhydrin Copolymer	25068-38-6	50 - 100	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 Skin Sensitisation, Category 1 Eye Irritation, Category 2 Hazardous to the aquatic environment, Chronic, Category 2

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

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 immediately. Apply artificial respiration if necessary. Check the vital functions. Keep cool.

Inhalation

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. 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.



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Ingestion

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Obtain immediate medical attention.

Most important symptoms and effects, both acute and delayed

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

Indication of any immediate medical attention and special treatment needed

Treat symptomatically. No antidotes known.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

Suitable Extinguishing media

Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions. Water spray, foam, dry powder or CO₂.

Unsuitable extinguishing media

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

Special hazards arising from the substance or mixture

May give off noxious and toxic fumes in a fire. Combustion products: Carbon monoxide, Carbon dioxide.

Special protective equipment and precautions for fire fighters

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.

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.

Methods and material for containment and cleaning up

Do not allow to enter drains, sewers or watercourses. Spillages or uncontrolled discharges into soil must be alerted to the appropriate regulatory body.

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.

Conditions for safe storage, including any incompatibilities

Keep only in original packaging. Keep in a well ventilated place. Keep container closed.

Storage temperature

Store in a cool/low-temperature, well-ventilated (dry) place away from heat and ignition sources.

Storage life

Stable at ambient temperatures.

Incompatible materials

Keep away from oxidising substances. Avoid contact with acids and alkalis.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational Exposure Limits

No American Conference of Governmental Industrial Hygienists (ACGIH)

SUBSTANCE	CAS No.	Mppcf*	mg/m ³
Amorphous, including natural diatomaceous earth	-	20	80 / %SiO ₂

Source: Occupational Safety and Health Standards, Toxic and Hazardous Substances, TABLE Z-3 Mineral Dusts

* - Millions of particles per cubic foot of air, based on impinger samples counted by light-field techniques

The other components listed in Section 3 do not have occupational exposure limits



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SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note
Amorphous, including natural diatomaceous earth	-	-	6	-	-	NIOSH

Note:

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

The other components listed in Section 3 do not have occupational exposure limits

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.

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 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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Viscous Purple Liquid
Odour	Slight
Odour threshold	Not available
pH	Not determined
Melting point/freezing point	Not determined
Initial boiling point and boiling range	> 260 °C
Flash point	Not determined
Evaporation rate	Not determined
Flammability (solid, gas)	Not applicable
Upper/lower flammability or explosive limits	Not applicable
Vapour pressure	0.03 mm Hg @ 25°C
Vapour density	Not determined
Relative density	1.17
Solubility(ies)	Water: Insoluble



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Partition coefficient: n-octanol/water	Not determined
Auto-ignition temperature	Not determined
Decomposition Temperature	Not determined
Viscosity (mPa. s)	Not determined

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.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity - Oral

4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer

Acute toxicity - Dermal

4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer

Acute toxicity - Inhalation

4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer

Skin corrosion/irritation

4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer

Serious eye damage/irritation

4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer

Respiratory or skin sensitization

4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer

Germ cell mutagenicity

4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer

Carcinogenicity

4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer

Reproductive toxicity

4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer

STOT - single exposure

4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer

STOT - repeated exposure

4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer

Aspiration hazard

4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer

Information on likely routes of exposure

Inhalation	Unlikely – accidental exposure
Ingestion	Unlikely – accidental exposure
Skin Contact	Possible – accidental exposure
Eye Contact	Unlikely – accidental exposure

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
Mixture: Based upon the available data, the classification criteria are not met. Calculated acute toxicity estimate (ATE) >2,000 mg/kg.
Not classified - No data
Mixture: Based upon the available data, the classification criteria are not met. Calculated acute toxicity estimate (ATE) > 5 mg/l
Not classified - No data
Mixture: Skin Irrit. 2; H315: Causes skin irritation.
Skin Irrit. 2; H315: Causes skin irritation. EU Harmonised Classification SCL H315 ≥ 5%
Mixture: Eye Irrit. 2; H319: Causes serious eye irritation.
Eye Irrit. 2; H319: Causes serious eye irritation. EU Harmonised Classification SCL H319 ≥ 5%
Mixture: Skin Sens. 1; H317: May cause an allergic skin reaction.
Skin Sens. 1; H317: May cause an allergic skin reaction. EU Harmonised Classification
Mixture: Based upon the available data, the classification criteria are not met. Not classified - In vitro: Negative (mouse lymphoma L5178Y cells) Unnamed, 1982 In vivo: No data
Mixture: Based upon the available data, the classification criteria are not met. No specific effects and/or symptoms have been reported or known.
Mixture: Based upon the available data, the classification criteria are not met. No specific effects and/or symptoms have been reported or known.
Mixture: Based upon the available data, the classification criteria are not met. Not classified - No data
Mixture: Based upon the available data, the classification criteria are not met. Not classified - No data
Mixture: Based upon the available data, the classification criteria are not met. Not classified - Not applicable



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Early onset symptoms related to exposure	Causes skin irritation. Causes eye irritation. May cause an allergic skin reaction.
Delayed health effects from exposure	None known.
Other information	
NTP Report on Carcinogens	All chemicals are not listed
IARC Monographs	All chemicals are not listed
OSHA Designated Carcinogen	All chemicals are not listed
NIOSH Occupational Carcinogen List	All chemicals are not listed

SECTION 12: ECOLOGICAL INFORMATION

Toxicity	Mixture: Aquatic Chronic 2; H411: Toxic to aquatic life with long lasting effects.
4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer	Aquatic Chronic 2; H411: Toxic to aquatic life with long lasting effects. EU Harmonised Classification
Persistence and degradability	The product is likely to persist in the environment.
4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer	Not biodegradable (Hydrolysis rate – 82%, 28 days) OECD 301 F
Bioaccumulative potential	The product has low potential for bioaccumulation.
4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer	BCF 3-31 QSAR Log Kow \geq 2.918 25 °C EU Method A8
Mobility in soil	The product is predicted to have low mobility in soil.
4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer	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
Results of PBT and vPvB assessment	No data for the mixture as a whole. None of the substances in this product fulfil the criteria for being regarded as a PBT or vPvB substance.
4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer	Not classified as PBT or vPvB. ECHA registration dossier
Other adverse effects	Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009). None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EC) No 517/2014).

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods	Dispose of wastes in an approved waste disposal facility. Recover or recycle if possible.
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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. (4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer)
Transport hazard class(es)	9	9	9
Hazard Identification Number	90	-	-
Classification code:	M6	-	-
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, 601	274, 335, 601	A97, A158
Limited Quantities	5L	5L	30kg G
Excepted Quantities	E1	E1	-
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable		
Additional Information	None known		



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SECTION 15: REGULATORY INFORMATION

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

US Federal Regulations

TSCA Inventory	All chemicals are not listed
TSCA Inventory Notification (Active-Inactive) Rule	All chemicals are not listed
TSCA Chemical Data Reporting (CDR) Rule	All chemicals are not listed

US State Regulations

Proposition 65 (California) All chemicals are not listed

EU regulations

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

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: New format has been issued, all sections have been updated to include new information. Review SDS with care.

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

Version	V1.3
Revision Date	17 th June 2020
Date Previous Issue:	21-August-2018

References:

Existing Safety Data Sheet (SDS). Existing ECHA registration(s) for 4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer (CAS No. 25068-38-6); EU Harmonised Classification(s) for 4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer (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
Hazardous to the aquatic environment, Chronic, Category 2	Summation 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



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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
Aquatic Chronic 2; Hazardous to the aquatic environment, Chronic ,
Category 2

Hazard Statement(s)

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