

TICO® Contact S Adhesive Material Safety Datasheet

Product Code: RC1161

Section 1: Identification of the Substance

1.1. Product identifier

Product name: Contact Adhesive S

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

Identified Uses: Adhesive

Section 2: Hazards Identification

2.1. Classification of the substance or mixture

Classification:

Physical hazards: Flam. Liq. 2 - H225

Health hazards: Skin Irrit. 2 - H315. Eye Irrit. 2 - H319. Skin Sens. 1 - H317. STOT SE 3 - H336

Environmental hazards: Aquatic Chronic 2 - H411

Classification (67/548/EEC or 1999/45/EC): Xi; R36/38. R43. F; R11. N; R51/53. R67.

Physicochemical: The product is highly flammable. Vapours may form explosive mixtures with air.

Vapours may form explosive mixtures with air. Vapours are heavier than air and may travel along the floor and accumulate in the bottom of containers. Vapours may be ignited by a spark, a hot surface or an ember.

2.2. Label elements

Hazard pictograms



Signal word: DANGER

Hazard statements:

H225 - Highly flammable liquid and vapour.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H336 - May cause drowsiness or dizziness.

H411 - Toxic to aquatic life with long lasting effects.

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Precautionary Statements:

- P210 - Keep away from heat / sparks / open flames / hot surfaces. - No smoking.
- P260 - Do not breathe vapours.
- P271 - Use only outdoors or in a well-ventilated area.
- P273 - Avoid release to the environment.
- P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection.
- P305+351 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses.
- P338 - If present and easy to do. Continue rinsing.
- P313 - Get medical advice / attention.
- P501 - Dispose of contents / container in accordance with national regulations.

Contains:

Butanone, hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane, cyclohexane, ethyl acetate rosin.

2.3. Other hazards

Other hazards: In use, may form flammable / explosive vapour-air mixture.

PBT: This product does not contain any substances classified as PBT / vPvB.

Section 3: Composition / Information on Ingredients

3.1. Mixtures

Hazardous Ingredients

CAS No.	EC No.	Index No.	Identification Name	% Weight	Classification According to Regulation (EC) No 1278/2008 (CLP)
78-93-3	209-159-0	01-2119457290-43-0000	Butanone	10 - 30 %	Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336
-	921-024-6	01-2119475514-35-0000	Hydrocarbons, C6-C7, N-alkanes, Isoalkanes, Cyclics < 5% N-hexane	10 - 30 %	Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 STOT SE 3 - H336 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411
110-82-7	203-806-2	01-2119463273-41-0000	Cyclohexane	10 - 30 %	Flam. Liq. 2 - H225 Asp. Tox. 1 - H304 Skin Irrit. 2 - H315 STOT SE 3 - H336 Aquatic Chronic 1 - H410 Aquatic Acute 1 - H400
141-78-6	205-500-4	01-2119475103-46-0017	Ethyl Acetate	5 - 10 %	Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336

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CAS No.	EC No.	Index No.	Identification Name	% Weight	Classification According to Regulation (EC) No 1278/2008 (CLP)
8050-09-7	232-475-7	01-2119480418-32-0036	Rosin	1 - 5 %	Eye Irrit. 2 - H319
110-54-3	203-777-6	01-2119480412-44-0000	Hexane-norm	< 1 %	Flam. Liq. 2 - H225 Skin Irrit. 2: H315 Repr. 2: H361f STOT SE 3 - H336 STOT SE 2 - H373 Asp. Tox. 1 - H304 Aquatic Chronic 2: H411

Section 4: First Aid Measures

4.1. Descriptions of first aid measurement

General information: Get medical attention if any discomfort continues.

Following inhalation: Remove affected person from source of contamination to fresh air immediately, ensuring one's own safety first. Keep warm, comfortable and at rest in a position comfortable for breathing. If recovery is not rapid, complete or if any discomfort continues or if feeling unwell, seek medical attention.

Following ingestion: Rinse mouth out thoroughly with water. Get medical attention.

Following skin contact: Remove all contaminated clothing and laundry before re-use. Immediately wash skin with plenty of water and soap. If any irritation or discomfort continues after rinsing seek medical advice.

Following eye contact: Rinse immediately with plenty of water. Remove any contact lenses if present and easy to do so and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately.

4.2. Most important systems and effects, both acute and delayed

General information: The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation: Vapours may cause headache, fatigue, dizziness and nausea.

Ingestion: May cause discomfort if swallowed. May cause stomach pain or vomiting.

Skin contact: Prolonged skin contact may cause redness and irritation.

Eye contact: May cause temporary eye irritation.

4.3. Indication of immediate medical attention and special treatment needed

Notes for the doctor: No specific recommendations. If in doubt, get medical attention promptly.

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Section 5: Fire Fighting Measures

5.1. Extinguishing media

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Extinguish with alcohol resistant foam, carbon dioxide or dry powder.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards: The product is HIGHLY FLAMMABLE. Heating may generate flammable vapours.
Hazardous combustion products: Does not decompose when used and stored as recommended.

5.3. Advice for Fire-fighters

Protective actions during fire-fighting: Control run-off water by containing and keeping it out of sewers and watercourses. Avoid breathing fire gases or vapours. Keep up-wind to avoid fumes.

Advice for Fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes (chemical protective suit).

Section 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel:

Protective Equipment: Refer to Section 8 of the MSDS for personal protection details.

Emergency Procedures: Remove all non-essential personnel, ventilate the area. Remove all sources of ignition.

6.2. Environmental Precautions

Environmental precautions: Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body. Do not discharge into drains or water courses or onto the ground.

6.3. Methods and Materials for Containment and Cleaning up

6.3.1. Containment procedures: Contain spillage with bunding.

6.3.2. Clean up procedures: Eliminate all sources of ignition. NO smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Absorb in vermiculate, dry sand or earth and place into containers. Use non-sparking tools during clean up procedure.

6.3.3. Other information: Do not use equipment in clean-up procedure which may produce sparks.

6.4. Reference to other sections

Wear protective clothing as described in Section 8 of this material safety data sheet. See Section 11 for more detailed information on health effects and symptoms. For waste disposal, see Section 13.

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Section 7: Handling and Storage

7.1. Precautions for safe handling

Usage precautions: Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site, end of shift or after.

Measures to prevent fire: Keep away from heat, sparks and open flame. Static electricity and formation of sparks must be prevented. Remove all sources of heat, ignition sources. Use non-sparking tools. NO SMOKING. Avoid the formation or spread of mists in the air.

Measures to prevent vapours/mists: Ensure there is sufficient ventilation of the area.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, dry, well ventilated area. Keep away from sources of ignition. Keep away from heat, sparks and open flame.

Packaging materials: Keep in original container, tightly closed.

Requirements for storage rooms and vessels: Ensure lighting and electrical equipment are not a source of ignition. Prevent the build-up of electrostatic charge in the immediate area.

Storage class: FLAMMABLE LIQUID STORAGE

Further information on storage conditions:

7.3. Specific end use(s)

Recommendations: No special requirement.

Section 8: Exposure Controls / Personal Protective Equipment

8.1. Control parameters

Workplace exposure limits:

Butanone:

State	8 Hour TWA		15 Min. STEL	
	ppm	mg/m ³	ppm	mg/m ³
UK	200 ppm (Sk)	600 mg/m ³ (Sk)	300 ppm (Sk)	899 mg/m ³ (Sk)

Cyclohexane:

State	8 Hour TWA		15 Min. STEL	
	ppm	mg/m ³	ppm	mg/m ³
UK	100 ppm	350 mg/m ³	300 ppm	1050 mg/m ³

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Ethyl Acetate

State	8 Hour TWA		15 Min. STEL	
UK	200 ppm	-	400 ppm	-

Hexane-norm

State	8 Hour TWA		15 Min. STEL	
UK	20 ppm	72 mg/m ³	-	-

8.2. Exposure Controls

Protective Equipment



8.2.1. Appropriate engineering controls: Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients.

8.2.2. Personal Protection Equipment:

8.2.2. (a). Eye protection: The following protection should be worn: Chemical splash goggles or face shield.

8.2.2. (b). Skin protection:

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. It is recommended that gloves are made of the following material: Nitrile rubber. It should be noted that liquid may penetrate the gloves. Frequent changes are recommended.

Other skin protection: Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact. Wear apron or protective clothing in case of contact.

Hygiene Measures: Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash station. Wash contaminated clothing before re-use. Wash hands thoroughly after any handling. When using this product ensure there is no eating, drinking or smoking.

8.2.2. (c). If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted with the following cartridge: Combination filter, type A2/P3.

8.2.3. Environmental Exposure Controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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Section 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance: Coloured liquid (Brown).

Odour: Not available.

Odour threshold: Not available.

pH: Not available.

Melting point: Not available.

Initial boiling point and range: Estimated value. 62°C - 100°C

Flash point: -26°

Evaporation rate: Not determined.

Evaporation factor: Not available.

Flammability (solid/gas): Not available.

Upper flammability or explosive limits: 13%

Other flammability: Not available.

Vapour pressure: Not available.

Vapour density: Not available.

Relative density: 0.86 @ 20°

Bulk density: Not available

Solubility(ies): Insoluble in water.

Partition coefficient: Not available.

Auto-ignition temperature: 200°C

Decomposition temperature: Not available.

Viscosity: Kinematic viscosity > 20.5mm²/s

Explosive properties: Not available

Explosive under the influence of a flame: Not considered to be explosive.

Oxidising properties: Not available.

Comments: Information given is applicable to the product as supplied.

Section 10: Stability and Reactivity

10.1 Reactivity

Reactivity: There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Chemical stability: No particular stability concerns. Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Hazardous reactions: Not applicable. Not relevant.

10.4. Conditions to avoid

Conditions to avoid: Avoid heat, flames, hot surfaces and other sources of ignition.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents.

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10.6. Hazardous decomposition products

Haz. Decomp. Products: Does not decompose when used and stored as recommended. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of carbon. Oxides of nitrogen.

Section 11: Toxicological Information

11.1. Information on toxicological effects

Acute toxicity - oral: ATE oral (mg/kg): 7,142.86

Acute toxicity - dermal: ATE dermal (mg/kg): 7,142.86

Acute toxicity - inhalation: ATE inhalation (vapours mg/l): 71.43

Inhalation: Harmful by inhalation.

Ingestion: Harmful if swallowed.

Skin Contact: Irritating to skin.

Eye Contact: Irritating.

Toxicological Information on Ingredients:

BUTANONE				
Acute toxicity - oral:	LD50	2,000.0	mg/kg	RAT
Acute toxicity - dermal:	LD 50	2,000.0	mg/kg	RAT
Acute toxicity - inhalation:	LC50	20.0	mg/l	RAT

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane				
Acute toxicity - oral: ATE oral (mg/kg):	LD50	5,840.0	mg/kg	RAT
Acute toxicity - dermal: ATE dermal (mg/kg):	LD 50	2,920.0	mg/kg	RAT
Acute toxicity - inhalation: ATE inhalation (vapours mg/l): (mg/kg):	LC50	25.2	mg/l	RAT

Skin corrosion/irritation: Animal data: Data lacking

Serious eye damage/irritation: Data lacking

Aspiration hazard: Kinematic viscosity > 20.5 mm²/s

Inhalation: May cause respiratory system irritation.

Ingestion: May cause stomach pain or vomiting.

Skin contact: Irritating to skin.

Eye contact: May cause severe eye irritation.

Acute and Chronic health hazards: Vapour from this product may be hazardous by inhalation.

Route of entry: Inhalation, skin absorption. Ingestion. Skin and/or eye contact

Target organs: No specific target organs known

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Medical Symptoms: Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Headache. Fatigue. Nausea. Vomiting.

Medical Considerations: No information available.

CYCLOHEXANE				
Acute toxicity - oral: ATE oral (mg/kg):	LD50	5,000.0	mg/kg	RAT
Acute toxicity - dermal: ATE dermal (mg/kg)	LD 50	2,920.0	mg/kg	RABBIT

Section 12: Ecological Information

Ecological information on ingredients: Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane

Ecotoxicity: Dangerous for the environment.

12.1. Toxicity

Ecological information on ingredients:

hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane					
Acute toxicity - fish:	LC50	96 hours	> 1 - < 10	mg/l	Fish
Acute toxicity - aquatic invertebrates:	EC ⁵⁰	48 hours	3	mg/l	Daphnia magna
Acute toxicity - aquatic plants:	LC50	72 hours	> 1 - < 10	mg/l	Algae

CYCLOHEXANE					
LE (C) ⁵⁰	0.1 < L (E) C50 < = 1				
M Factor (Acute):	1				
Acute toxicity - fish:	LC50	96 hours	4.53	mg/l	Pimephales promelas (Fat-head Minnow)
Acute toxicity - aquatic invertebrates:	EC ⁵⁰	48 hours	0.9	mg/l	Daphnia magna
Acute toxicity - aquatic plants:	LC50	72 hours	3.4	mg/l	Algae

Chronic aquatic toxicity:

M Factor (Chronic): 1

12.2. Persistence and degradability

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12.3. Bioaccumulative Potential

Partition coefficient: Not available

12.4. Mobility in soil

Mobility: The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.

12.5. Results of PBT and vPvB assessment

PBT/vPvB identification: This product does not contain any substances classified as PBT or vPvB

Ecological information on ingredients:

BUTANONE:

Results of PBT and vPvB assessment: This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects:

None known

Ecological information on ingredients:

BUTANONE

Other adverse effects: None known.

Section 13: Disposal Considerations

13.1. Waste treatment methods

General information: Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Disposal methods: Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Section 14: Transportation Information

14.1. UN Number

UN No. (ADR / RID): 1133

UN No. (IMDG): 1133

UN No. (ICAO): 1133

UN No. (ADN): 1133

14.2. UN proper shipping name

Proper shipping name (ADR / RID): Adhesives (hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane)

Proper shipping name (IMDG): Adhesives (hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane)

Proper shipping name (ICAO): Adhesives (hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane)

Proper shipping name (ADN): Adhesives (hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane)

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14.3. Transport hazard class(es)

ADR / RID class: 3

ADR / RID subsidiary risk:

ADR / RID label: 3

IMDG class: 3

IMDG subsidiary risk:

ICAO class / division: 3

ICAO subsidiary risk:

14.4. Packing group

ADR / RID packing group: II

IMDG packing group: II

ADN packing group: II

ICAO packing group: II

14.5. Environmental hazards

Environmentally hazardous substance / marine pollutant:

14.6. Special precautions for user

EmS: F-E, S-D.

Emergency Action Code: ■3YE

Hazard Identification Number (ADR/RID): 33

Tunnel restriction code: (D / E)

Transport Labels:



14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Section 15: Regulatory Information

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

National regulations: Health and Safety at Work etc. Act 1974 (as amended). The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended). Control of Substances Hazardous to Health 2002 (as amended).

EU Legislation: Commission Directive 91/322/EEC of 29 May 1991 on establishing indicative limit values by implementing Council Directive 80/1107/EEC on the protection of workers from the risks related to exposure to chemical, physical and biological agents at work.
Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

15.2. Chemical Safety Assessment

Chemical Safety Assessment: No Chemical Safety Assessment has been carried out for this substance / mixture by the supplier

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Section 16: Other Information

Phrases used in s.2 and s.3:

H225:	Highly flammable liquid and vapour.
H304:	May be fatal if swallowed and enters airways.
H315:	Causes skin irritation.
H317:	May cause an allergic skin reaction.
H319:	Causes serious eye irritation.
H336:	May cause drowsiness or dizziness.
H361f:	Suspected of damaging fertility.
H400:	Very toxic to aquatic life.
H410:	Very toxic to aquatic life with long lasting effects.
H411:	Toxic to aquatic life with long lasting effects.
R11:	Highly flammable.
R36/38:	Irritating to eyes and skin.
R43:	May cause sensitisation by skin contact.
R51/53:	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R67:	Vapours may cause drowsiness and dizziness.

Information on this Material Safety Data Sheet is drawn from a variety of sources, including material suppliers data, and other published sources.

This information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy his / herself as to the suitability of such information for his / her own particular use. This product falls within the scope of the Control of Substances Hazardous to Health (COSHH) Regulations. Users are reminded that this document does not in itself constitute an assessment of workplace risk as required by those regulations.