

SAFETY DATA SHEET

1. Identification

Product identifier	TC2PA	
Other means of identification		
SDS number	SDS-00037	
Product code	TC2PA	
Recommended use	Tough Acrylic Adhesive	
Recommended restrictions	None known.	
Manufacturer/Importer/Supplier/Distributor information		
Company name	Thomas & Betts Corporation	
Address	8155 T & B Boulevard	
	Memphis, TN 38125	
	USA	
Telephone	901-252-5000 ext.8324	
E-mail	Not available.	
Emergency phone number	For Hazardous Materials [or Dangerous Goods] Incident Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night +1 703-741-5970	

2. Hazard(s) identification

Physical hazards	Flammable liquids	Category 4
Health hazards	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 1
	Sensitization, skin	Category 1
	Carcinogenicity	Category 2
	Specific target organ toxicity, repeated exposure	Category 1
OSHA defined hazards	Not classified.	
Label elements		
Signal word	Danger	
Hazard statement	•	lay cause an allergic skin reaction. Causes serious Causes damage to organs through prolonged or

	repeated exposure.
Precautionary statement	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from flames and hot surfaces-No smoking. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.
Response	If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. In case of fire: Use appropriate media to extinguish.
Storage	Store in a well-ventilated place. Keep cool. Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%	
Tetrahydrofurfuryl methacrylate	2455-24-5	30 - 60	
Chlorosulphonated polyethylene	68037-39-8	10 - 30	
2-Ethylhexyl methacrylate	688-84-6	5 - 10	
Methacrylic acid	79-41-4	5 - 10	
Carbon Tetrachloride	56-23-5	0.1 - 1	
Talc	14807-96-6	0.1 - 1	

4. First-aid measures

Inholation	Maya ta frank air. Call a shuaisinn if ayrentama dayalan ar narrist
Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash. Prolonged exposure may cause chronic effects.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.
5. Fire-fighting measures	
Suitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	The product is combustible, and heating may generate vapors which may form explosive vapor/air mixtures. During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	Combustible liquid.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material.
	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.
	Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
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. Keep away from open flames, hot surfaces and sources of ignition. Do not breathe mist or vapor. Do not get this material in contact with eyes. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store locked up. Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-2 (29 CFR 1910.1000)

Components	Туре	Value	
Carbon Tetrachloride (CAS 56-23-5)	Ceiling	25 ppm	
	TWA	10 ppm	
US. OSHA Table Z-3 (29 CF	R 1910.1000)		
Components	Туре	Value	Form
Talc (CAS 14807-96-6)	TWA	0.3 mg/m3	Total dust.
		0.1 mg/m3	Respirable.
		20 mppcf	
		2.4 mppcf	Respirable.
US. ACGIH Threshold Limit	Values		
Components	Туре	Value	Form
Carbon Tetrachloride (CAS 56-23-5)	STEL	10 ppm	
	TWA	5 ppm	
	TWA	20 ppm	
79-41-4)	TWA TWA	20 ppm 2 mg/m3	Respirable fraction.
79-41-4) Talc (CAS 14807-96-6)	TWA		Respirable fraction.
79-41-4) Talc (CAS 14807-96-6) US. NIOSH: Pocket Guide te	TWA		Respirable fraction.
79-41-4) Talc (CAS 14807-96-6) US. NIOSH: Pocket Guide to Components Carbon Tetrachloride (CAS	TWA o Chemical Hazards	2 mg/m3	·
79-41-4) Talc (CAS 14807-96-6) US. NIOSH: Pocket Guide to Components Carbon Tetrachloride (CAS	TWA o Chemical Hazards Type	2 mg/m3 Value 12.6 mg/m3	·
79-41-4) Talc (CAS 14807-96-6) US. NIOSH: Pocket Guide to Components Carbon Tetrachloride (CAS 56-23-5) Methacrylic acid (CAS	TWA o Chemical Hazards Type	2 mg/m3 Value	·
79-41-4) Talc (CAS 14807-96-6) US. NIOSH: Pocket Guide to Components Carbon Tetrachloride (CAS 56-23-5) Methacrylic acid (CAS	TWA o Chemical Hazards Type STEL	2 mg/m3 Value 12.6 mg/m3 2 ppm 70 mg/m3	
Methacrylic acid (CAS 79-41-4) Talc (CAS 14807-96-6) US. NIOSH: Pocket Guide to Components Carbon Tetrachloride (CAS 56-23-5) Methacrylic acid (CAS 79-41-4) Talc (CAS 14807-96-6)	TWA o Chemical Hazards Type STEL	2 mg/m3 Value 12.6 mg/m3 2 ppm	

Exposure guidelines		
US - California OELs: Skin d	esignation	
Carbon Tetrachloride (CAS 56-23-5)		Can be absorbed through the skin.
Methacrylic acid (CAS 79-		Can be absorbed through the skin.
US - Minnesota Haz Subs: S	•	
Carbon Tetrachloride (CA		Skin designation applies.
US - Tennessee OELs: Skin	U	
Methacrylic acid (CAS 79-		Can be absorbed through the skin.
US ACGIH Threshold Limit V	-	
Carbon Tetrachloride (CA		Can be absorbed through the skin.
US. NIOSH: Pocket Guide to		
Methacrylic acid (CAS 79-	,	Can be absorbed through the skin.
Appropriate engineering controls	should be matched to conditio or other engineering controls t exposure limits have not been	cally 10 air changes per hour) should be used. Ventilation rates ns. If applicable, use process enclosures, local exhaust ventilation, o maintain airborne levels below recommended exposure limits. If established, maintain airborne levels to an acceptable level. Eye shower must be available when handling this product.
Individual protection measures,	such as personal protective e	quipment
Eye/face protection	Wear safety glasses with side	shields.
Skin protection		
Hand protection	Wear appropriate chemical res	sistant gloves. Suitable gloves can be recommended by the glove
Skin protection		
Other	Wear appropriate chemical res	sistant clothing. Use of an impervious apron is recommended.
Respiratory protection	Chemical respirator with organ	nic vapor cartridge and full facepiece.
Thermal hazards	Wear appropriate thermal prot	ective clothing, when necessary.
General hygiene considerations	personal hygiene measures, s drinking, and/or smoking. Rou	nce requirements. When using do not smoke. Always observe good uch as washing after handling the material and before eating, utinely wash work clothing and protective equipment to remove work clothing should not be allowed out of the workplace.

9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Liquid.
Color	Amber.
Odor	Sharp, irritating.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	> 149ºC (300ºF)
Flash point	83 °C
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or expl	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	< 10 mm Hg at 27ºC (80ºF)
Vapor density	Not available.

Relative density	1.16 (water = 1)
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Percent volatile	1.59 %
VOC (Weight %)	18.4 g/l
10. Stability and reactivity	
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Carbon oxides. Sulfur oxides. Toxic chlorides Toxic organic vapors/fumes.

11. Toxicological information

Information on likely routes of exposure

Inhalation	May cause irritation to the respiratory system.
Skin contact	Causes skin irritation. May cause an allergic skin reaction.
Eye contact	Causes serious eye damage.
Ingestion	May be harmful if swallowed.
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

Information on toxicological effects

Acute toxicity	Not expected to be acutely toxic.	
Components	Species	Test Results
2-Ethylhexyl methacrylate (CAS 6	88-84-6)	
Acute		
Oral		
LD50	Rat	> 2000 mg/kg
Talc (CAS 14807-96-6)		
Acute		
Oral		
LD50	Rat	> 5000 mg/kg
Skin corrosion/irritation	Causes skin irritation. Causes severe eye irritation.	
Serious eye damage/eye irritation	Causes serious eye damage.	
Respiratory or skin sensitizatio	n	
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	May cause an allergic skin reaction.	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity	Suspected of causing cancer.	
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IARC Monographs. Overall E	Evaluation of Carcinogenicity		
Carbon Tetrachloride (CAS 56-23-5)		2B Possibly carcinogenic to humans.	
Talc (CAS 14807-96-6) NTP Report on Carcinogens		3 Not classifiable as to carcinogenicity to humans.	
Carbon Tetrachloride (CAS 56-23-5) Reasonably Anticipated to be a Human Carcinogen. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)			
Not regulated.			
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.		
Specific target organ toxicity - single exposure	Not available.		
Specific target organ toxicity - repeated exposure	Causes damage to organs through prolonged or repeated exposure. Respiratory system.		
Aspiration hazard	May be harmful if swallowed and enters airways.		
Chronic effects	Causes damage to organs through prolonged or repeated exposure. Respiratory system.		
12. Ecological information			
Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.		
Persistence and degradability	No data is available on the degradability of this product.		
Bioaccumulative potential			
Partition coefficient n-octanol / water (log Kow)			
Methacrylic acid (CAS 79-41-4	Carbon Tetrachloride (CAS 56-23-5) 2.83 Aethacrylic acid (CAS 79-41-4) 0.93		
Mobility in soil	Expected to be mobile in soil.		
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.		
13. Disposal considerations			
Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.		
Local disposal regulations	Dispose in accordance with all applicable regulations.		
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.		
Waste from residues / unused products		local regulations. Empty containers or liners may retain some al and its container must be disposed of in a safe manner (see:	
Contaminated packaging		retain product residue, follow label warnings even after container is ould be taken to an approved waste handling site for recycling or	

14. Transport information

DOT

Not regulated as dangerous goods.

ΙΑΤΑ

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

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

15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

OSHA Specifically Regulate	ed Substances (29 CFR 191	0.1001-1050)		
Not regulated.	·			
CERCLA Hazardous Substa				
Carbon Tetrachloride (C	AS 56-23-5)	LISTED		
Superfund Amendments and Re		(SARA)		
Hazard categories	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No			
SARA 302 Extremely hazar Not listed.	dous substance			
SARA 311/312 Hazardous chemical	Yes			
SARA 313 (TRI reporting)				
Chemical name		CAS number	% by wt.	
Carbon Tetrachloride		56-23-5	0.1 - 1	
Other federal regulations				
Clean Air Act (CAA) Section	n 112 Hazardous Air Polluta	ants (HAPs) List		
Carbon Tetrachloride (C. Clean Air Act (CAA) Section		Prevention (40 CFR	68.130)	
Not regulated.				
Safe Drinking Water Act (SDWA)	Not regulated.			
US state regulations				
US. Massachusetts RTK - S	Substance List			
Carbon Tetrachloride (C. Methacrylic acid (CAS 79 Talc (CAS 14807-96-6) US. New Jersey Worker an	9-41-4)	w Act		
Carbon Tetrachloride (C				
Methacrylic acid (CAS 79 Talc (CAS 14807-96-6) US. Pennsylvania Worker a	9-41-4)	ow low		
Carbon Tetrachloride (C.				
Methacrylic acid (CAS 79 Talc (CAS 14807-96-6)				
US. Rhode Island RTK				
Carbon Tetrachloride (C				
US. California Proposition		to the State of Californ	is to source concer	
	t contains a chemical known t			
Carbon Tetrachlorid	ition 65 - Carcinogens & Re		(CRT). LISTER Substance	5
International Inventories	e (CAS 30-23-3)			
				O n inventen <i>y</i> (vector)*
Country(s) or region Australia	Inventory name Australian Inventory of Ch	emical Substances (A		On inventory (yes/no)* Yes
Canada	Domestic Substances List		100)	Yes
Canada	Non-Domestic Substances			No
China	Inventory of Existing Chen	· · · ·	aina (IECSC)	Yes
Europe	European Inventory of Existing Chern Substances (EINECS)			No
Europe	European List of Notified (Chemical Substances	(ELINCS)	No
Japan	Inventory of Existing and N			Yes
Korea	Existing Chemicals List (E		- (/	Yes
New Zealand	New Zealand Inventory	,		Yes
	······································			

Country(s) or region	Inventory name	On inventory (yes/no)*
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	17-December-2015
Revision date	13-May-2016
Revision #	2
HMIS® ratings	Health: 3 Flammability: 2 Physical hazard: 0
NFPA ratings	

Disclaimer

Thomas & Betts Corporation cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

Yes