

Material safety data sheet
Triolyse 727 C

Multi-Tec Adhesives, Brossard, (Québec) J4W 3L8 (450) 672-2513

1. Identification :

Product name : Tryolise 727 C
Chemical name: Methacrylic Adhesive

2. Ingredient:

Hazardous Ingredients	% by weight	Maximum exposure value (ppm) (8 hres. Time weighted average)
Aliphatic acid-----	< 7	Not establish, corrosive
Acrylic acid-----	< 7	10 ppm ACGIH TLV
Organic acid-----	< 5	Not assigned, oxidizer

3. Physical properties:

Boiling point:		Not Applicable
Vapor pressure:		6 mm Hg at 30 degrees C
Vapor density:		Heavier than air
Volatiles (% by weight):	< 0.1	
Specific Gravity:	1.1	
Solubility in water:		INSOL
Appearance and color:		Amber liquid

4. Fire and explosion data:

Flash point (F/ method used): - < 200degrees F (PMCC)
Extinguishing Media: Co, dry chemical, foam, water, fog unusual fire.
Explosion Hazard: Toxic fumes (oxide of carbon and nitrogen) may be evolved upon exposure to heat or open flame.

Special Firefighting Procedures: Firefighter should wear self-contained breathing apparatus.

5. Reactivity data:

Product is stable; hazardous polymerization will not occur. Incompatible with strong oxidizers, amines, strong lewis or mineral acids, thiosulfates. Considerable smoke and toxic fumes may be evolves as a result of uncontrolled exothermic agents such as peroxides or amines.

Conditions to avoid: Storage in open containers, exposure to heat and / or open flame, exposure to incompatible substances (such as noted above).

6. Spill or leak procedures :

Special precautions: See section " G ".

For Large Spills: Dike area to prevent spreading. Absorb material with vermiculite, sand or other inert absorbing material. Put in closed container dispose of as a hazardous waste in accordance with current local, provincial, state or federal laws or regulations.

7. Special precautions:

Respiratory Protection: Positive fresh air exhaust should be provided in the work area: respiratory equipment is unnecessary in normal use.

Skin Protection: Avoid skin contact. Wear gloves and impervious protective clothing if frequent direct contact is likely.

Eye Protection: Do not wear contact lenses. Chemical safety glasses or goggles are recommended.

8. Shipping handling & storage:

DOT & IATA Hazard Classifications: Not restricted Article Proper DOT shipping name: Not Applicable materials should be handled and stored in a cool (50 degrees F to 80 degrees), dark place. Temperatures over 120degrees F should be avoided for maximum shelf life. Slow polymerization, with possible heat generation, will occur in direct sunlight and at temperatures approximately 130 degrees F or higher.

9. Health Hazard Data:

As defined by NTP, ARC, and OSHA, there are no carcinogens in this formulation.

Potential route of entry: Inhalation ? x Skin x Ingestion ?

Symptoms of overexposure: Skin and eyes irritation- high levels of acrylic acid vapors cause nose and throat irritation.

Emergency & first aid procedures:

Eye Irritation: Wash eyes with copious quantities of water for several minutes. Get medical attention.

Skin Contact: Wash thoroughly with soap and water. Do not use organic solvents for clean up as they may dry or irritate the skin and acts as a carrier for chemical absorption.

Exposure Limits	ACGIH (TLV)	OSHA (PEL)	OTHER
Ingredients			
Acrylic acid	10ppm	---	---
Ingredients	Target Organs	Carcinogen	
		NTP IARC	OSHA
High Boiling (meth) Acrylate	ALG KID LIV	No No	No
Organic acid	---	No No	No
High Boiling (meth) Acrylate	---	No No	No
Polyurethane Oligomer	---	No No	No
Acrylic Impact Modifier	---	No No	No
Acrylic Acid	IRR REP	No No	No
Photoinitiator	---	No No	No
T-Butyl Perbenzoate	---	No No	No

Abbreviations:

N/A Not Applicable

IRR Irritant

LIV Liver

ALG Allergern

KID Kidney

REP Reproductive

10. Regulatory Information :

Sara Listed Ingredients : Acrylic Acid

TSCA Inventory: All Ingredients

Prepared October 13th 2004

Material safety data sheet

Activator 632

Multi-Tec Adhesives, P.O.B. 98 Brossard, (Québec) J4W 3L8 (450) 672-2513

1. Identification :

Product Name : Product 632 activator

Chemical Name: Butyraldehyde Condensation Product

2. Ingredients :

	Composition	C.A.S	ACGIH TLV
Aldehyde-amine condensation	10-20	Unknown	---
Aniline	< 0.5	62-53-3	2 ppm
Trichloroétane 1,1,1	80-90	71-55-6	350 ppm TWA

3. Physical properties :

Vapor Pressure : 100 mm Hg at 20 C

Vapor density : 4.6 (air = 1)

Solubility in water 0.07g/ 100g

Boiling point : N/A

Specific Gravity : 1.32

Appearance: Amber Liquide

Odor : Light

4. Fire and explosion hazard data :

Flash point : none

Flammable limits : lower 7.5 %

Upper 15 % (volume) at 25 degrees Celcius

Extinguishing Media : CO ; dry chemical; foam; water fog.

Unusual fire or explosion hazards; toxic fumes (oxides of carbon & nitrogen as well as HCl and phosgene)

May be evolved upon exposure to heat or open flame.

Special firefighting procedures : firefighters should wear shelf-contained breathing apparatus.

5. Reactivity :

Product is stable, Hazardous polymerization will not occur.

Incompatible with strong alkalis, and reactive metals. Small amounts of phosgene & HCl may be evolved on decomposition. Condition to avoid : storage in open containers, exposure to heat and/ or open flame

which can cause thermal decomposition.

6. Special or leak procedure :

Special precautions : see section 9

7. Shipping, handling & storage

DOT Hazard classification : for air transport – DOT : ORM – A Proper
DOT Shipping name : Trichloroétane 1,1,1 solution

Material should be handled and stored in a cool (50 degrees F. to 80 degrees F.) dark place.
Temperatures over 120 degrees F.
Should be avoided for maximum shelf life.

8. Emergency and first aid procedures :

- EYE IRRITATION : Wash eyes with copious quantities of water for several minutes. Medical attention if irritation persists.
- SKIN CONTACT : wash thoroughly with soap and water.
- INHALATION : remove to fresh air.
- INGESTION : **Do not** induce vomiting. Get a medical attention.

9. Special precautions:

Respiratory protection : Positive fresh air exhaust should be provided in the work area; respiratory equipment is unnecessary. In the normal use, if the area is properly ventilated.

Skin protection : Avoid skin contact. Wear gloves and impervious protective clothing if frequent direct contact is likely.

Eye protection : Do not wear contact lenses. Chemical safety glasses or goggles are recommended.

10. Health hazard data :

As defined by NTP, ARC and OSHA, there are no carcinogens in this formulation.

Potential route of entry : inhalation ? x Skin ? Ingestion ?

Symptoms of overexposure : Possible skin and eye irritation on contact.

Inhalation of vapors in an unventilated area may, below 1000 ppm, induce headaches. Dizziness & drowsiness above 1000 ppm.

EXPOSURE LIMITS	ACGIH (TLV)	OSHA	OTHER
INGREDIENTS			
Aniline	2 ppm	5 ppm	---
Trichloroétane 1,1,1	350 ppm TWA	350 ppm TWA	100 ppm

TARGET ORGANS

CARCINOGEN

INGREDIENTS

		NTP	IARC	OTHER
Amine-Aldehyde condensate	---	No	No	No
Aniline	---	No	No	No
Trichloroethane 1.1.1	liv	No	No	No

Abbreviations :

LIV Liver

11. Regulatory Information :

Sara listed ingredients : aniline

Trichloroethane 1.1.1

TSCA inventory : All ingredients

Prepared October 25 th 2004