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Material Safety Data Sheet

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Section I—Product Information

Product Name	DELTA®-THENE ADHESIVE
Product Type	Liquid adhesive
Product Use	Liquid substrate adhesive for self-adhesive membranes

Section II—Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity, Common Name(s))	OSHA PEL	CAS Number	Other Limits Recommended	% of total weight
1,2,4-trimethylbenzene		95-63-6		0.1-1
1,3,5-trimethylbenzene		108-67-8		0.1-1
3-methylpentane		96-14-0		10-30
Acetone		67-64-1		15-40
Bentonite		1302-78-9		1-5
Haxane		110-57-3		15-40
Isohexane		107-83-5		1-5
Methylcyclopentane		96-37-7		1-5
solvent dewaxed heavy paraffinic petroleum distillate		64742-65-0		1-5
Stoddard solvent		8052-41-3		1-5
Xylene		1330-20-7		0.1-1
Inert ingredients				<balance>

Flammable liquid and vapor. Vapor may cause light-headedness, headache, nausea, loss of coordination and respiratory tract irritation. Causes skin irritation. Appearance/Odor: Blue liquid in a can, mild gasoline-like odor.

Hazards Identifications

Inhalation	
Eve Hazards	May cause eye irritation (burning, tearing, redness or swelling).
Skin Hazards	May cause skin irritation and contact dermatitis upon prolonged contact.
Ingestion Hazards	Ingestion may cause central nervous system depression.
Inhalation Hazards	Exposure to vapors may cause respiratory tract irritation. Inhalation of vapors or mists may cause central nervous system depression, light-headedness, headache, nausea and loss of coordination.
Chronic/Carcinogenicity Effects	None of the ingredients of this product comprising over 0.1% are classified as carcinogenic according to OSHA, National Toxicology Program (NTP), International Agency for Research on Cancer (IARC) or the American Conference of Governmental Industrial Hygienists (ACGIH).

Section III—Physical/Chemical Characteristics

Appearance	Blue liquid in a can	Vapor Pressure	<5700mmHg@60°F
Odor	Mild gasoline-like odor	Vapor Density	2.0-2.8 for liquid portion @77°F
Chemical Type	Mixture	pH Factor	Not applicable
Physical State	Liquid	Solubility	Not soluble in water
Boiling Point	45°C (113°F)	Evaporation Rate	7-9 (butyl acetate = 1)
Specific Gravity	0.80 for liquid portion		
Percent Volatiles	71		

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Section IV—Fire and Explosion Hazard Data	
Flash Point	-28°C (-18.4°F)
Flash Point Method	Closed cup
Autoignition Point	223°C (466°F)
Lower Explosive Limit	1.0
Upper Explosive Limit	13.0
Fire and Explosion Hazards	Thermal decomposition (burning) may release irritating, corrosive and/or toxic gases, vapors and fumes. Can under pressure
Extinguishing Media	Chemical foam, carbon dioxide (CO ₂), dry chemical, or water fog.
Fire Fighting Instructions	Firefighters should wear self-contained breathing apparatus and full protective gear.
Section V—Reactivity Data	
Stability	Stable
Hazardous Polymerization	Will not occur
Conditions To Avoid (Stability)	Avoid extreme temperatures. Keep away from ignition sources, heat and flames.
Incompatible Materials	Avoid contact with strong oxidizing agents.
Hazardous Decomposition Products	Toxic and irritating gases, vapor or fumes of carbon monoxide (CO), carbon dioxide (CO ₂)
Section VI—Toxicological Properties	
Miscellaneous Toxicological Information	Toxicological testing has not been conducted for this product overall. Available toxicological data for individual ingredients are summarized below.
Ingredient(s) – Toxicological Data	
1,2,4-trimethylbenzene	
LD50 (oral, rat): 5000 mg/kg	
LC50 (rat): 18 g/m ³ (4-hour exposure)	
1,3,5-trimethylbenzene	
Lethal dose (oral, rat): 23 g/kg lethal to 7 of 10 test animals	
LC50 (rat): 24 g/m ³ (4-hour exposure)	
acetone	
LD50 (oral, female rat): 5800 mg/kg	
LD50 (dermal, rabbit): >16000 mg/kg	
LC50 (male rat): 30000 ppm (4-hour exposure)	
Hexane	
LD50 (oral, 14-day old rat): 15840 mg/kg	
LC50 (male rat): 38500 ppm (4-hour exposure)	
methylcyclopentane	
LD50 (oral, rat): 5-15 g/kg	
Lethal concentration (mouse): 95000-120000 mg/m ³	
solvent dewaxed heavy paraffinic petroleum distillate	
LD50 (oral, rat): >5000 mg/kg	
LD50 (dermal, rabbit): >5000 mg/kg	
stoddard solvent	
oral-rat LD50: >5000 mg/kg	
dermal-rabbit LD50: >3000 mg/kg	
inhal-rat LC50: >5500 mg/m ³ (880 ppm)	
inhal-rat LC50: >1300 ppm	
xylene	
LD50 (oral, rat): 5400 mg/kg	
LD50 (dermal, rabbit): 12180 mg/kg	
LC50 (rat): 6350 ppm (4-hour exposure)	

Section VII—First Aid Measures

Eye	In case of contact, hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately if irritation develops and persists.
Skin	Remove contaminated clothing and shoes. Wash affected areas with soap and water.
Ingestion	Get medical attention immediately. DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious victim.
Inhalation	Remove the person from the contaminated area to fresh air. Get medical attention immediately.
Note to Physician	Aspiration of liquid into the lungs during swallowing or vomiting can cause inflammation, serious lung damage and even death from chemical pneumonitis.

Section VIII—Preventative Measures

Engineering Controls	Use with adequate general and local exhaust ventilation. When used outdoors, stay well away from building air intakes or close and seal the intakes to prevent product from entering building.
Personal Protective Equipment	Respiratory Protection: The level of respiratory protection needed should be based on the evaluation of chemical exposures by a health or safety professional. If required, use a NIOSH-approved air purifying respiratory with organic vapor cartridge and particulate filter or supplied air respirator.
	Skin Protection: Use with chemical-protective gloves made of nitrile or neoprene to prevent skin contact.
	Eye / Face Protection: Safety glasses with side shields recommended.

Occupational Exposure Limits for individual ingredients (if available) are listed below.

Ingredient(s) – Exposure Limits

1,2,4-trimethylbenzene

ACGIH TLV-TWA 25 ppm

1,3,5-trimethylbenzene

ACGIH TLV-TWA 25 ppm

Acetone

ACGIH TLV-STEL 750 ppm

ACGIH TLV-TWA 500 ppm

OSHA PEL-TWA 1000 ppm

Bentonite

ACGIH TLV-TWA 10 mg/m³ (total dust)

ACGIH TLV-TWA 3 mg/m³ (respirable dust)

OSHA PEL-TWA 15 mg/m³ (total dust)

OSHA PEL-TWA 5 mg/m³ (respirable dust)

Hexane

ACGIH TLV-STEL 1000 ppm

ACGIH TLV-TWA 50 ppm (Skin)

ACGIH TLV-TWA 500 ppm

OSHA PEL-TWA 500 ppm

Isohexane

ACGIH TLV-STEL 1000 ppm

ACGIH TLV-TWA 500 ppm

Stoddard solvent

ACGIH TLV-TWA 100 ppm

OSHA PEL-TWA 500 ppm

Xylene

ACGIH TLV-STEL 150 ppm

ACGIH TLV-TWA 100 ppm

OSHA PEL-TWA 100 ppm

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Section IX—Handling and Storage

Handling and Storage Requirements	Keep away from ignition source. Keep containers tightly closed. Store in a cool, dry, well-ventilated area. Do not handle or store near heat, sparks, flame strong oxidents or strong acids. Use only with adequate ventilation. Ground all containers.
Accidental Release Measures	Restrict access to area until oxygen level in the air can be determined and is at least 19.5%. Ensure monitoring is conducted by trained personnel only. Wear adequate respiratory protection equipment. Ventilate area. Avoid open flames, sparks or other ignition sources. Contain any liquids and absorb spill with inert material (e.g. sand, vermiculite). Collect and dispose in accordance with applicable regulations.

Section X—Disposal and Transportation

Disposal	Disposal In accordance with applicable federal, state and local government regulations.
Transport Information	
Ground	UN1133, Adhesives, 3, II
IMDG	UN1133, Adhesives, 3, II
IATA	UN1133, Adhesives, 3, II

Section XI—Regulatory Information

SARA Hazard Classes	Acute Health Hazard Fire Hazard
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Ingredient(s) - U.S. Regulatory Information

- 1,2,4-trimethylbenzene
SARA Title III - Section 313 Form "R"/TRI Reportable Chemical
- Hexane
SARA Title III - Section 313 Form "R"/TRI Reportable Chemical
- Xylene
SARA Title III - Section 313 Form "R"/TRI Reportable Chemical

Ingredient(s) - State Regulations

- 1,2,4-trimethylbenzene
 - New Jersey - Workplace Hazard
 - New Jersey - Environmental Hazard
 - Massachusetts - Hazardous Substance
 - New York City - Hazardous Substance
- 1,3,5-trimethylbenzene
 - New Jersey - Workplace Hazard
 - Massachusetts - Hazardous Substance
 - New York City - Hazardous Substance
- 3-methylpentane
 - New Jersey - Workplace Hazard
 - Pennsylvania - Workplace Hazard
 - Massachusetts - Hazardous Substance
- Acetone
 - New Jersey - Workplace Hazard
 - Pennsylvania - Workplace Hazard
 - Massachusetts - Hazardous Substance
 - New York City - Hazardous Substance
- Hexane
 - New Jersey - Workplace Hazard
 - New Jersey - Environmental Hazard
 - New Jersey - Special Hazard
 - Pennsylvania - Workplace Hazard
 - Massachusetts - Hazardous Substance
 - New York City - Hazardous Substance

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Isohexane

Pennsylvania - Workplace Hazard

Massachusetts - Hazardous Substance

Methylcyclopentane

New Jersey - Workplace Hazard

New Jersey - Special Hazard

Pennsylvania - Workplace Hazard

Massachusetts - Hazardous Substance

New York City - Hazardous Substance

Solvent dewaxed heavy paraffinic petroleum distillate

New Jersey - Workplace Hazard

Stoddard solvent

New Jersey - Workplace Hazard

Pennsylvania - Workplace Hazard

Massachusetts - Hazardous Substance

New York City - Hazardous Substance

Xylene

New Jersey - Workplace Hazard

New Jersey - Environmental Hazard

New Jersey - Special Hazard

Pennsylvania - Workplace Hazard

Pennsylvania - Environmental Hazard

Massachusetts - Hazardous Substance

New York City - Hazardous Substance

Canadian Regulatory Information

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR. WHMIS Classification: B2 - Flammable Materials, D2B - Toxic Materials.

Ingredient(s) - Canadian Regulatory Information

1,2,4-trimethylbenzene

WHMIS - Ingredient Disclosure List

1,3,5-trimethylbenzene

WHMIS - Ingredient Disclosure List

Acetone

WHMIS - Ingredient Disclosure List

Hexane

WHMIS - Ingredient Disclosure List

Isohexane

WHMIS - Ingredient Disclosure List

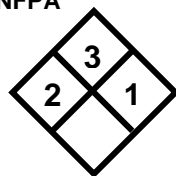
Stoddard solvent

WHMIS - Ingredient Disclosure List

WHMIS – Canada (Pictograms)



NFPA



HMIS

HEALTH	2
FLAMMABILITY	3
REACTIVITY	0
PERSONAL PROTECTION	

Disclaimer

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The data and information is based on our knowledge to date and is intended to describe the product with regard to safety requirements. They are not to be interpreted as a specification of properties of the products described.