

Section 1. Product and Company Identification

Product Name Methyltetrahydrophthalic Anhydride
CAS Number 3409-76-1

Parchem - fine & specialty chemicals

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EMERGENCY RESPONSE NUMBER

CHEMTEL

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Collect Calls Accepted

Section 2. Hazards Identification

Classification of the substance or mixture

Classification of the substance or mixture

Eye Dam. 1; H318 Causes serious eye damage.

Skin Sens. 1; H317 May cause an allergic skin reaction.

Resp. Sens. 1; H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

GHS Label Elements

Pictograms:



Signal word: DANGER

Hazard and precautionary statements

Hazard Statements

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H334 May cause allergic or asthmatic symptoms or breathing difficulties if inhaled.

Precautionary Statements

Prevention

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/eye protection/face protection.

P285 In case of inadequate ventilation wear respiratory protection.

Response

P302+352 IF ON SKIN: Wash with plenty of soap and water.

P304+341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a

position comfortable for breathing.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

P313 Get medical advice/attention.

P321 Specific treatment (see information on this label).

P333+313 If skin irritation or a rash occurs: Get medical advice/attention.

P342+311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

P363 Wash contaminated clothing before reuse.

Storage

No GHS storage statements

Disposal

P501 Dispose of contents/container in accordance with local/national regulations.

Section 3. Composition / Information on Ingredients

Common Name	Methyltetrahydrophthalic Anhydride
Synonyms	Methyl Tetrahydromethylphthalic Anhydride
Formula	C ₉ H ₁₀ O ₃
CAS Number	3409-76-1

COMPONENT	CAS NUMBER	CONCENTRATION
Methyl Tetrahydromethylphthalic anhydride	3409-76-1	50 – 90%
Other anhydrides	–	1.0 – 10%

Section 4. First Aid Measures

Description of first-aid measures

General: In all cases of doubt, or when symptoms persist, seek medical attention.

Never give anything by mouth to an unconscious person.

Inhalation: Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

Eyes: Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

Skin: Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.

Ingestion: If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed

Overview: It is anticipated that this product will produce moderate eye and skin irritation.

Prolonged exposure will result in chemical burns and possible irreversible damage. Mists or vapors will most likely be irritating to the respiratory tract. See section 2 for further details.

Inhalation: May cause allergy or asthma symptoms of breathing difficulties if inhaled.



Eyes: Causes serious eye damage.
Skin: May cause an allergic skin reaction.

Section 5. Firefighting Measures

Extinguishing media: Foam, Dry Chemical, Water, and Carbon Dioxide

Special hazards arising from the substance or mixture: Hazardous decomposition: Thermal decomposition may produce toxic organic vapors/fumes and oxides of carbon. Avoid breathing dust/fume/gas/mist/vapors/spray.

Advice for firefighters: Firefighting personnel must wear NIOSH/MSHA approved self-contained breathing apparatus and protective clothing. Cool fire-exposed containers with water spray. Products of combustion are toxic. Treat as hot oil or fat. If water must be used, use a fog nozzle to avoid spattering of hot material and spread of burning liquid.

Section 6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures: Put on appropriate personal protective equipment (see section 8).

Environmental precautions: Do not allow spills to enter drains or waterways. Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

Methods and material for containment and cleaning up: Caution! Floors may become slippery. Wear appropriate protective gear and NIOSH/MSHA approved respirator where mists or vapors of unknown concentrations may be generated (self-contained breathing apparatus preferred). Dike and contain spill with inert material (sand, earth, etc.). Transfer the liquid and solid separately to containers for recovery or disposal. Keep spill out of sewer and open bodies of water.

Section 7. Handling and Storage

Precautions for safe handling: See section 2 for further details. - [Prevention]

Conditions for safe storage, including any incompatibilities: Handle containers carefully to prevent damage and spillage. Keep Containers tightly closed until used. Incompatible materials: Incompatible with bases and oxidizing agents. See section 2 for further details. - [Storage]

Section 8. Exposure Controls / Personal Protection

Control Parameters: No established limits

Carcinogen Data

Ingredients	Source	Value
Tetrahydromethylphthalic Anhydride	OSHA	Select Carcinogen: No

	NTP	Known: No; Suspected: No
	IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
Other Anhydrides - New Jersey	OSHA	Select Carcinogen: No
	NPT	Known: No; Suspected: No
	IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;

Exposure Controls

Respiratory: In processes where mists or vapors may be generated, proper ventilation must be provided in accordance with good ventilation practices. In the absence of proper environmental controls, a NIOSH/MSHA jointly approved respirator is advised.

Eyes: Wear chemical goggles where there is potential for eye contact. Use safety glasses with side shields under normal use conditions.

Skin: Rubber or plastic gloves when needed to prevent skin contact.

Engineering Controls: Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

Other Work Practices: Eye wash stations, safety showers, and protective clothing should be provided to all workers. Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse. See section 2 for further details. - [Prevention]

Section 9. Physical and Chemical Properties

Appearance: Clear Yellow Liquid

Odor: Faint

Odor threshold: Not determined

pH: Acidic

Melting point/freezing point: Not Measured

Initial boiling point and boiling range: Not Measured

Flash Point: > 200°F

Evaporation rate (Ether = 1): Not Measured

Flammability (solid, gas): Not Applicable

Upper/lower flammability or explosive limits Lower Explosive Limit: 1.7%

Upper Explosive Limit: 10.5%

Vapor pressure (Pa): < 0.01mmHg

Vapor Density: 5.5

Specific Gravity: About 1.2

Solubility in Water: Less than 0.1%

Partition coefficient n-octanol/water (Log Kow): Not Measured

Auto-ignition temperature: Not Measured

Decomposition temperature: Not Measured

Viscosity (cSt): Not Measured

Other information: No other relevant information.

Section 10. Stability and Reactivity

Reactivity: Hazardous Polymerization will not occur.

Chemical stability: Stable under normal circumstances.

Possibility of hazardous reactions: No data available.

Conditions to avoid: Avoid moisture and heat.

Incompatible materials: Incompatible with bases and oxidizing agents.

Hazardous decomposition products: Thermal decomposition may produce toxic organic vapors/fumes and oxides of carbon.

Section 11. Toxicological Information

Acute toxicity

Ingredient Oral LD50, mg/kg: No data available

Skin LD50, mg/kg: No data available

Inhalation Vapor LC50, mg/L/4hr: No data available

Inhalation Dust/Mist LC50, mg/L/4hr: No data available

Inhalation Gas LC50, ppm: No data available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Classification	Hazard Description
Acute toxicity (Oral)	Not Applicable
Acute toxicity (Dermal)	Not Applicable
Acute toxicity (Inhalation)	Not Applicable
Skin corrosion/irritation	Not Applicable
Serious eye damage/irritation	Causes serious eye damage.
Respiratory sensitization	May cause allergy or asthma symptoms of breathing difficulties if inhaled.
Skin sensitization	May cause an allergic skin reaction.
Germ cell mutagenicity	Not Applicable
Carcinogenicity	Not Applicable
Reproductive toxicity	Not Applicable
STOT-single exposure	Not Applicable
STOT-repeated exposure	Not Applicable
Aspiration hazard	Not Applicable

Section 12. Ecological Information

Toxicity: No additional information provided for this product. See Section 3 for chemical specific data.

Aquatic Ecotoxicity

Ingredient 96 hr LC50 fish, mg/l: Not available

48 hr EC50 crustacea, mg/l: Not available

ErC50 algae, mg/l: Not available

Persistence and degradability: There is no data available on the preparation itself.

Bioaccumulative potential: Not Measured

Mobility in soil: No data available.

Results of PBT and vPvB assessment: This product contains no PBT/vPvB chemicals.

Other adverse effects: No data available.

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

DOT (Domestic Surface Transportation): Not Regulated

IMO/IMDG (Ocean Transportation): Not Regulated

ICAO/IATA: Not Regulated

Environmental Hazards

Marine Pollutant: No

Special precautions for user: No further information

Section 15. Regulatory Information

Regulatory Overview The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

Toxic Substance Control Act (TSCA): All components of this material are either listed or exempt from listing on the TSCA Inventory.

WHMIS Classification: D2A E



US EPA Tier II Hazards Fire: No
Sudden Release of Pressure: No
Reactive: No

Immediate (Acute): Yes
Delayed (Chronic): No

EPCRA 311/312 Chemicals and RQs: To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 302 Extremely Hazardous: To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 313 Toxic Chemicals: To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Carcinogens (>0.0%): To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Developmental Toxins (>0.0%): To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Female Repro Toxins (>0.0%): To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Male Repro Toxins (>0.0%): To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

New Jersey RTK Substances (>1%): Other Anhydrides - New Jersey Trade Secret
#28067400000-5060

Pennsylvania RTK Substances (>1%): To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Section 16. Other Information

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

REVISION DATE: 2/22/2018