

Safety Data Sheet

APC/54JA

SDS No. 16018.5

Date of Preparation: 10/26/05

Revision: 8/29/24

Section 1 - Chemical Product and Company Identification

Product Identifier: APC/54JA

Other means of identification: None

Recommended Use: Glass separator

Restrictions on Use: Industrial use only.

Manufacturer: Marshall Additive Technologies

Division of the R. J. Marshall Company

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Preparer: Stephanie Nichols

Section 2 - Hazards Identification

Classification of the chemical in accordance with paragraph (d) of 1910.1200: Hazardous

GHS Classifications:

Serious Eye Damage-Category 1

Signal Word: Danger



Symbols:

Hazard Statements:

Causes serious eye damage

Precautionary Statements:

Wear eye protection/face protection.

IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a doctor/physician.

Hazards not otherwise classified: None

HMIS

H 2

F 1

R 0

PPE[†]

[†]Sec. 8

Section 3 - Composition / Information on Ingredients

Ingredient Name	CAS Number	% Weight
Diiodomethyl-p-tolylsulfone	20018-09-1	0.21% max
Adipic Acid	124-04-9	90% max
Polyethylene glycol mono (tert-octylphenyl)ether	9036-19-5	10% max
Propylene Glycol	57-55-6	0.042% max
Calcium lignosulfonate	8061-52-7	0.009% max
Polyalkylene glycol	9003-11-6	0.009% max

Section 4 - First Aid Measures

Description of necessary measures subdivided according to the different routes of exposure:

Inhalation: If a person experiences labored breathing or shortness of breath, remove them from the area of exposure. If the condition persists, contact a physician or emergency medical service.

Eye Contact: Wash with large amounts of water for 15 minutes periodically lifting the upper and lower lids. Remove contact lenses if present after the first five minutes. Get medical attention without delay.

Skin Contact: Wash skin thoroughly with soap and water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention if irritation develops or persists. Wash clothing before reuse.

Ingestion: Get medical attention. If the victim is conscious and alert, give 2-4 cups of water.

Most important symptoms/effects, acute and delayed: See information above.

Indication of immediate medical attention and special treatment needed: Treat symptomatically and supportively.

Section 5 - Fire-Fighting Measures

Suitable Extinguishing Media: Dry chemical, alcohol foam, or CO₂.

Unsuitable Extinguishing Media: None known.

Specific hazards arising from the chemical:

Unusual Fire or Explosion Hazards: Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Minimum explosive concentration in air (dust): 10-15mg/L.

Hazardous Combustion Products: Carbon monoxide, carbon dioxide, nitrogen oxides.

Fire-Fighting Instructions: Wear self-contained breathing apparatus and protective clothing.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures: Evacuate all unnecessary personnel. Remove all sources of ignition. Ventilate the area of leak or spill. Wear appropriate personal protective equipment.

Methods and materials for containment and cleaning up: Clean up spills in a manner that does not disperse dust into the air. Use non-sparking tools and equipment. Pick up the spill for recovery or disposal and place it in a closed container.

Section 7 - Handling and Storage

Precautions for safe handling: Keep in a tightly closed container, and store in a cool, dry, ventilated area. Protect against physical damage. Isolate from incompatible substances. Avoid dust formation and control ignition sources. Employ grounding, venting, and explosion relief provisions in accordance with accepted engineering practices. Empty only into an inert or non-flammable atmosphere where flammable vapors may be present could cause a flash fire or explosion due to electrostatic discharge.

Section 8 - Exposure Controls / Personal Protection

Ingredient	OSHA PEL		ACGIH TLV	
	TWA	STEL	TWA	STEL
Diiodomethyl-p-tolylsulfone	none estab.	none estab.	none estab.	none estab.
Adipic Acid	none estab.	none estab.	5 mg/m ³	none estab.
Polyethylene glycol tert-octylphenyl ether	none estab.	none estab.	none estab.	none estab.
Propylene Glycol	none estab.	none estab.	none estab.	none estab.
Calcium lignosulfonate	none estab.	none estab.	none estab.	none estab.
Polyalkylene glycol	none estab.	none estab.	none estab.	none estab.

Engineering Controls: A well-ventilated area to control dust levels. Dust-tight conveying and handling equipment is recommended to minimize airborne dust levels. A system of local and/or general exhaust is recommended.

Administrative Controls:

Respiratory Protection: If the exposure limit is exceeded, a full facepiece with a dust/mist filter may be worn. Where the exposure limits are not known, use a full face-piece positive-pressure, air-supplied respirator.

Protective Clothing/Equipment: Use chemical safety goggles and/or full face shields where dusting is possible. Maintain eye wash fountain and quick drench facilities in work. Rubber gloves and lab coat, apron, or coveralls.

Work Hygiene: Wash hands after each exposure especially before and after using sanitary facilities.

Section 9 - Physical and Chemical Properties

Appearance: white solid

Odor: none

Odor Threshold: not applicable

pH: not available

Freezing/Melting Point: not available

Boiling Point: >392°F (>200°C)

Flash Point: not determined

Flash Point Method: not applicable

Evaporation Rate: not available

Flammability: Not applicable

Upper/lower flammability limits: Not applicable

Vapor Pressure: .106mmHg @ 77°F (25°C)

Vapor Density (Air=1): 5.04

Relative Density: not available

Water Solubility: partially soluble.

Other Solubilities: n/a

Partition coefficient: n-octanol/water; not available.

Auto-ignition Temperature: 788°F (420°C)

Decomposition Temperature: not available

Viscosity: not applicable

Section 10 - Stability and Reactivity

Reactivity: Stable under normal conditions.

Chemical Stability: This product is stable at room temperature in closed containers under normal storage and handling conditions.

Possibility of hazardous reactions: None anticipated under normal or recommended handling and storage conditions.

Conditions to Avoid: Avoid conditions that generate dust. Avoid sparking, electrical discharge, and sources of ignition. Keep away from incompatible materials, heating to decomposition.

Incompatible materials: strong oxidizers, bases, reducing agents, materials reactive with hydroxyl compounds, and strong acids. Corrosive to mild steel at room temperature.

Hazardous Decomposition Products: CO, CO₂, aldehydes, ketones, organic acids.

Section 11- Toxicological Information

Information on the likely routes of exposure: Inhalation, Ingestion, and Skin.

Symptoms related to the physical, chemical, and toxicological characteristics:

Inhalation: May cause respiratory tract irritation.

Eye: Causes severe eye irritation.

Skin: Causes skin irritation.

Ingestion: Moderately toxic.

Delayed and immediate effects and also chronic effects from short- and long-term exposure: Skin contact may aggravate preexisting dermatitis.

Numerical measures of toxicity:

	Adipic Acid	Polyethylene glycol tert-octophenyl ether
Oral LD ₅₀ (rat)	>5000 mg/kg	1900 mg/kg
Inhalation LD ₅₀ (rat)	>7.7 mg/l (4hr)	No data available
Dermal LD ₅₀ (rabbit)	>7900 mg/kg	>2000 mg/kg
Skin Irritation (rabbit)	Slightly irritating	No data available
Eye Damage/Irritation (rabbit)	Highly irritating, risk of serious damage to eyes	Risk of serious damage to eyes
Skin Sensitization (guinea pig)	Non-sensitizing	No data available
Repeat Dose Toxicity (oral, rat 2 years)	NOAEL: 750 mg/kg	No data available

Carcinogenicity: Not considered to be carcinogenic by OSHA, IARC, or NTP.

Section 12 - Ecological Information

Eco-toxicity:

Adipic Acid:

LC₅₀ (96hr, Brachidanio rerio): >= 1,000 mg/l

LC₅₀ (48hr, Daphnia magna): 46 mg/l

EC₅₀ (72hr, Pseudokirchneriella subcapitata; growth rate): 59 mg/l

EC₅₀ (3hr. Activate sludge): >7000 mg/l

Polyethylene glycol mono (tert-octophenyl) ether:

LC₅₀ (96hr, Oncorhynchus mykiss (rainbow trout)): 7.2 mg/l

EC₅₀ (48hr, Daphnia magna (Water flea)): 8.6 mg/l

Persistence and degradability: No data available

Bio-accumulative potential:

Adipic Acid: 83% BOD (30d, OECD 301D); Bioaccumulation is not expected on the basis of the low Pow value of 0.093.

Mobility in soil: No data available.

Results of PBT and vPvB assessment: not available.

Other adverse effects: None known.

Section 13 - Disposal Considerations

Disposal: Dispose of solid waste in a sanitary landfill or incinerate it according to Federal, State, and local regulations.

Section 14 - Transport Information**DOT Transportation Data (49 CFR 172.101):**

UN Number: not classified as dangerous goods

UN proper shipping name: not classified as dangerous goods

Transport hazard classes: None

Packaging group: None

Environmental hazards: None

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

Special precautions for user: None

Section 15 - Regulatory Information**EPA Regulations:**

RCRA Hazardous Waste Number: Not listed (40 CFR 261.33)

RCRA Hazardous Waste Classification: Not classified

CERCLA Hazardous Substance (40 CFR 302.4)

- Adipic Acid RQ 5000# (Release of more than 5,000lbs requires notification to the National Response Center (800-424-8802).

SARA Toxic Chemical (Section 313) (40 CFR 372.65): Not listed

SARA EHS (Extremely Hazardous Substance) (Section 302) (40 CFR 355): Adipic Acid: RQ = 5000 lbs

SARA 311/312 Hazard Categories: Acute health, Skin Corrosion or Irritation, Serious Eye Damage or Irritation

California Proposition 65: This product does not contain any components known to the State of California to cause cancer.

TSCA

This substance or all of its components are on the Chemical Substances Inventory of the Toxic Substance Control Act (TSCA Inventory [USA]). Please note that this product is not subject to any legal reporting requirements under these acts.

Section 16 - Other Information

Prepared By: Stephanie Nichols

Revision Notes: updated Section 2

Product Grades Available from the R. J. Marshall Company (this list may be incomplete):

APC54JA

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