

SAFETY DATA SHEET

Isopoxy 309 FS Activator

Section 1: Product and Company Identification

Product name: Isopoxy 309 FS Activator

Manufacturer:

Isotec® International, Inc.
201 Longview Street
Canton, GA 30114
Customer Service: 800-234-6300

24 Hour Emergency Telephone Numbers:

Poison Control Center (Medical): (877) 800-5553
ChemTel: United States 800-255-3924 * International 1-813-248-0585

Section 2: Hazards Identification

GHS Classifications

Health:

Acute Toxicity (Oral), Category 4
Acute Toxicity (Dermal), Category 4
Acute Toxicity (Inhalation), Category 4
Skin Corrosion, Category 1B
Skin Sensitization, Category 1
Serious Eye Damage, Category 1
Reproductive Toxicity, Category 2

GHS Label



Health



Exclamation mark



Corrosion

Signal Word: Danger.

Hazard Statements

H302: Harmful if swallowed.
H312: Harmful in contact with skin.
H314: Causes severe skin burns and eye damage.
H317: May cause an allergic skin reaction.
H332: Harmful if inhaled.
H361: Suspected of damaging fertility or the unborn child.

Precautionary Statements

Prevention:

- P202: Do not handle until all safety precautions have been read and understood.
- P260: Do not breathe fumes, mist, vapors, and spray.
- P264: Wash skin thoroughly after handling.
- P270: Do not eat, drink, or smoke when using this product.
- P271: Use only outdoors or in a well-ventilated area.
- P272: Contaminated work clothing should not be allowed out of the workplace.
- P280: Wear protective gloves, protective clothing, eye protection and face protection.

Response:

- P301+P312: IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell.
- P330: Rinse mouth.
- P331: Do NOT induce vomiting.
- P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
- P363: Wash contaminated clothing before reuse.
- P333+P313: If skin irritation or rash occurs: Get medical advice.
- P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P312: Call a POISON CENTER or physician if you feel unwell.
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310: Call a POISON CENTER or physician.
- P308+P313: IF exposed or concerned: Get medical advice.

Section 3: Composition/Information on Ingredients

Component	% (weight)	Product Identifier
Benzyl alcohol	25-40	CAS No. 100-51-6
Nonylphenol	25-40	CAS No. 84852-15-3
Triethylenetetramine	10-20	CAS No. 112-24-3
1,3-Bis(aminomethyl)benzene	10-20	CAS No. 1477-55-0
2,4,6-tris(dimethylaminomethyl)phenol	5-10	CAS No. 90-72-2
Bis((dimethylamino)methyl)phenol	1-5	CAS No. 71074-89-0

Section 4: First Aid Measures

Eyes: Immediately flush eyes with plenty of water. Remove contact lenses, if present. Seek immediate medical attention.

Skin: Immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Seek medical advice if irritation or rash occurs.

Ingestion: If person is conscious, wash out mouth with water. Do not induce vomiting. Immediately call a poison center or physician.

Inhalation: Move person to fresh air. Seek medical attention if symptoms of respiratory distress occur.

Section 5: Firefighting Measures

Extinguishing Media: Water fog, foam, dry chemical, or carbon dioxide.

Hazardous Combustion Products: Carbon oxides and nitrogen oxides.

Fire Fighting Procedures: Do not use direct water stream as this may spread the fire. Use water spray to cool fire-exposed containers.

Fire Fighting Equipment: Exposed firefighters must wear NIOSH-approved positive pressure self-contained breathing apparatus with full-face mask and full protective clothing.

Section 6: Accidental Release Measures

Personal Protection: Wear protective equipment listed in Section 8.

Small Spill: Isolate the area and prevent entry of unnecessary and unprotected personnel. Do not walk through or otherwise scatter spilled product. Absorb with dry chemical absorbent, earth, sand or any other inert material. Place in a chemical waste container.

Large Spill: Same procedure as for a small spill. Prevent entry into waterways, sewers, basements or confined areas.

Section 7: Handling and Storage

Handling: Do not get in eyes, on skin or on clothing. Wash hands before eating, drinking, or smoking. Keep container closed when not in use. Do not reseal if contaminated. Keep away from heat and flame.

Storage: Store in tightly closed containers in cool, dry and well-ventilated area away from heat or sources of ignition. Keep out of direct sunlight.

Storage Temperature: Minimum 12.8 - 15.5 °C (55 - 60 °F)

Section 8: Exposure Controls/Personal Protection

Exposure limits:

Component	CAS No.	OSHA/PEL	ACGIH/TLV
1,3-Bis(aminomethyl)benzene	1477-55-0	0.1 mg/m ³ (Ceiling)	0.1 mg/m ³

Engineering Controls: Local exhaust ventilation used in combination with general ventilation as necessary to control air contaminants.

Eyes and Face: Wear a face shield and chemical safety glasses or goggles.

Skin: Wear impervious gloves. Cover exposed skin.

Respiratory: When product is applied as a spray, wear a NIOSH approved air-purifying respirator equipped with organic vapor cartridges.

Work Hygienic Practices: Avoid eating, drinking, or smoking while using this material. Wash hands thoroughly after handling.

Section 9: Physical and Chemical Properties

Appearance	Amber liquid.
Odor	Sweet.
Autoignition Temperature	Not established.
Freezing Point	Not established.
Boiling Point	Not established.
Flash Point (Closed Cup)	> 93.3°C (200°F)
Solubility in water	Partial.
Specific Gravity (water = 1)	1.0 at 25°C (77°F)
Viscosity (centipoise)	130 at 25°C (77°F)

Section 10: Stability and Reactivity

Stability: Stable.

Hazardous Polymerization: Will not occur.

Hazardous Decomposition Products: Carbon oxides and nitrogen oxides.

Incompatible Materials: Strong oxidizers and acids.

Section 11: Toxicological Information

Acute:

Component	Oral LD ₅₀ (rat)	Dermal LD ₅₀ (rabbit)	Inhalation LC ₅₀ (rat)
Benzyl alcohol	1230 mg/kg	2000 mg/kg	8.8 mg/l/4h
Nonylphenol	1620 mg/kg		
Triethylenetetramine	2500 mg/kg	550 mg/kg	
1,3-Bis(aminomethyl)benzene	930 mg/kg	2000 mg/kg	1.34 mg/l/4h
2,4,6-tris(dimethylaminomethyl)phenol	1200 mg/kg	1280 mg/kg (rat)	

Carcinogenicity:

IARC: Not regulated as a carcinogen.

NTP: Not regulated as a carcinogen.

OSHA: Not regulated as a carcinogen.

Section 12: Ecological Information

Ecotoxicological Information:

Benzyl alcohol: LC₅₀ (Bluegill) 10 mg/l/96h; EC₅₀ (Daphnia) 55 mg/l/24h

Section 13: Disposal Considerations

Disposal Method: Dispose in accordance with local, state, provincial or national regulations.

Empty Container: Product residue is retained. Do not pressurize, cut, weld, braze, solder, drill, grind or expose container to heat, flame, sparks, static electricity, or any other sources of ignition.

RCRA/EPA Waste Information: If discarded in its purchased form, this material is a RCRA hazardous waste.

General Comments: The generation of waste should be avoided or minimized whenever possible. Chemical waste, even small quantities, should never be poured into drains, sewers, or waterways.

Section 14: Transport Information

U.S. DOT: UN3145, Alkylphenols, Liquid, NOS, 8, II

ICAO/IATA: UN3145, Alkylphenols, Liquid, NOS, 8, II

IMO/IMDG: UN3145, Alkylphenols, Liquid, NOS, 8, II

Section 15: Regulatory Information

United States

SARA Title III (Superfund Amendments and Reauthorization Act)

311/312 Hazard Categories: Acute, Chronic.

313 Reportable Components:

Component	CAS No.
Nonylphenol	84852-15-3

CERCLA (Comprehensive Environmental Response and Liability Act) None.

TSCA (Toxic Substances Control Act): All components are in TSCA inventory.

RCRA Status: If discarded in its purchased form, this material is a RCRA hazardous waste.

Section 16: Other Information

Date Issued: December 8, 2020

Revised: February 19, 2021 Rev #1

Manufacturer Disclaimer: The information in this SDS was obtained from sources that we believe are reliable. The information is provided without warranty, implied or expressed, concerning accuracy. The manufacturer assumes no legal responsibility for use or reliance on this information. This SDS is provided solely for the purpose of conveying health, safety, and environmental information. This SDS is not a specification data sheet. Some of the information and conclusions may be derived from sources other than test data on the material itself.

Abbreviations and Acronyms:

ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstracts Service
EC ₅₀	Median effective concentration
EINECS	European Inventory of Existing Commercial Chemical Substances
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
LC ₅₀	Lethal concentration to 50% of exposed laboratory animals
LD ₅₀	Lethal dose to 50% of exposed laboratory animals
TWA	Time-weighted average
TLV	Threshold limit value
NIOSH	US National Institute of Occupational Safety and Health
NE	Not established
NTP	US National Toxicology Program
OEL	Occupational exposure limit
OSHA	US Occupational Safety Health Administration
PEL	Permissible exposure limit
RQ	Reportable quantity
STEL	Short term exposure limit
U.S. DOT	United States Department of Transportation

SAFETY DATA SHEET

Isopoxy 309 FS Resin

Section 1: Product and Company Identification

Product name: Isopoxy 309 FS Resin

Manufacturer:

Isotec® International, Inc.
201 Longview Street
Canton, GA 30114
Customer Service: 800-234-6300

24 Hour Emergency Telephone Numbers:

Poison Control Center (Medical): (877) 800-5553
ChemTel: United States 800-255-3924 * International 1-813-248-0585

Section 2: Hazards Identification

GHS Classifications

Health:

Skin Irritation, Category 2
Skin Sensitization, Category 1
Serious Eye Irritation, Category 2A

GHS Label



Exclamation mark

Signal Word: Warning.

Hazard Statements

H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.

Precautionary Statements

Prevention:

P261: Avoid breathing mist, vapors, and spray.
P264: Wash skin thoroughly after handling.
P272: Contaminated work clothing should not be allowed out of the workplace.
P280: Wear protective gloves, protective clothing, eye protection and face protection.

Response:

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P333+P313: If skin irritation or rash occurs: Get medical advice.

P362+P364: Take off contaminated clothing and wash before reuse.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical attention.

Section 3: Composition/Information on Ingredients

Component	% (weight)	Product Identifier
2,2-Bis(4'-glycidyoxyphenyl)propane	40-55	CAS No. 1675-54-3
Calcium carbonate	20-35	CAS No. 1317-65-3
Polypropyleneglycol diglycidyl ether	10-20	CAS No. 26142-30-3
Benzyl alcohol	1-5	CAS No. 100-51-6
Titanium dioxide	0.1-5	CAS No. 13463-67-7
Carbon black	0.1-5	CAS No. 1333-86-4

Section 4: First Aid Measures

Eyes: Immediately flush eyes with plenty of water. Remove contact lenses, if present. Seek medical attention if irritation persists.

Skin: Immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Seek medical attention if irritation occurs.

Ingestion: If person is conscious, wash out mouth with water. Do not induce vomiting unless instructed to do so by a poison center or physician.

Inhalation: Move person to fresh air.

Section 5: Firefighting Measures

Extinguishing Media: Water fog, foam, dry chemical, or carbon dioxide.

Hazardous Combustion Products: Carbon oxides and nitrogen oxides.

Fire Fighting Procedures: Do not use direct water stream as this may spread the fire. Use water spray to cool fire-exposed containers.

Fire Fighting Equipment: Exposed firefighters must wear NIOSH-approved positive pressure self-contained breathing apparatus with full-face mask and full protective clothing.

Section 6: Accidental Release Measures

Personal Protection: Wear protective equipment listed in Section 8.

Small Spill: Isolate the area and prevent entry of unnecessary and unprotected personnel. Do not walk through or otherwise scatter spilled product. Absorb with dry chemical absorbent, earth, sand or any other inert material. Place in a chemical waste container.

Large Spill: Same procedure as for a small spill. Prevent entry into waterways, sewers, basements or confined areas.

Section 7: Handling and Storage

Handling: Do not get in eyes, on skin or on clothing. Wash hands before eating, drinking or smoking. Keep container closed when not in use. Do not reseal if contaminated. Keep away from heat and flame.

Storage: Store in tightly closed containers in cool, dry and well-ventilated area away from heat or sources of ignition. Keep out of direct sunlight.

Storage Temperature: Minimum 12.8 - 15.5 °C (55 - 60 °F)

Section 8: Exposure Controls/Personal Protection

Exposure limits:

Component	CAS No.	OSHA/PEL	ACGIH/TLV
Calcium carbonate	1317-65-3	15 mg/m ³	2 mg/m ³
Titanium dioxide	13463-67-7	15 mg/m ³ (total dust)	10 mg/m ³
Carbon black	1333-86-4	3.5 mg/m ³	3.5 mg/m ³

Eyes and Face: Wear a face shield and chemical safety glasses or goggles.

Skin: Wear impervious gloves. Cover exposed skin.

Respiratory: When product is applied as a spray, wear a NIOSH approved air-purifying respirator equipped with organic vapor cartridges.

Work Hygienic Practices: Avoid eating, drinking, or smoking while using this material. Wash hands thoroughly after handling.

Section 9: Physical and Chemical Properties

Appearance	Liquid of various colors.
Odor	Sweet.
Autoignition Temperature	Not established.
Freezing Point	Not established.
Boiling Point	Not established.

Flash Point (Closed Cup)	> 93.3°C (200°F)
Solubility in water	Negligible.
Specific Gravity (water = 1)	1.3 at 25°C (77°F)
Viscosity (centipoise)	3000 at 25°C (77°F)

Section 10: Stability and Reactivity

Stability: Stable.

Hazardous Polymerization: Will not occur.

Hazardous Decomposition Products: Carbon oxides and nitrogen oxides.

Incompatible Materials: Strong acids, strong oxidizers, and mineral acids.

Section 11: Toxicological Information

Acute:

Component	Oral LD ₅₀ (rat)	Dermal LD ₅₀ (rabbit)	Inhalation LC ₅₀ (rat)
2,2-Bis(4'-glycidyoxyphenyl)propane	> 4000 mg/kg	20000 mg/kg	
Calcium carbonate	6450 mg/kg		
Polypropyleneglycol diglycidyl ether	> 4000 mg/kg		
Benzyl alcohol	1230 mg/kg	2000 mg/kg	8.8 mg/l/4h
Titanium dioxide	> 10000 mg/kg	> 10000 mg/kg	
Carbon black	> 8000 mg/kg	> 3000 mg/kg	

Carcinogenicity:

IARC: Titanium dioxide and Carbon black are Group 2B: Possibly carcinogenic to humans.

(Inhalation exposure only.)

NTP: Not regulated as a carcinogen.

OSHA: Not regulated as a carcinogen.

Section 12: Ecological Information

Ecotoxicological Information:

Benzyl alcohol: LC₅₀ (Bluegill) 10 mg/l/96h; EC₅₀ (Daphnia) 55 mg/l/24h

Section 13: Disposal Considerations

Disposal Method: Dispose in accordance with local, state, provincial or national regulations.

Empty Container: Decontaminate and pass to an approved drum recycler or destroy.

RCRA/EPA Waste Information: If discarded in its purchased form, this material is not a RCRA hazardous waste.

General Comments: The generation of waste should be avoided or minimized whenever possible. Chemical waste, even small quantities, should never be poured into drains, sewers, or waterways.

Section 14: Transport Information

U.S. DOT: Not regulated.

ICAO/IATA: UN3082, Environmentally Hazardous Substances, Liquid, NOS (2,2-Bis(4'-glycidyoxyphenyl)propane), 9, III

IMO/IMDG: UN3082, Environmentally Hazardous Substances, Liquid, NOS (2,2-Bis(4'-glycidyoxyphenyl)propane), 9, III, Marine Pollutant

Section 15: Regulatory Information

United States

311/312 Hazard Categories: Acute.

313 Reportable Components: None.

CERCLA (Comprehensive Environmental Response and Liability Act) None.

TSCA (Toxic Substances Control Act): All components are on TSCA inventory.

RCRA Status: If discarded in its purchased form, this material is not a RCRA hazardous waste.

Section 16: Other Information

Date Issued: December 8, 2020

Revised: February 19, 2021 Rev #1

Manufacturer Disclaimer: The information in this SDS was obtained from sources that we believe are reliable. The information is provided without warranty, implied or expressed, concerning accuracy. The manufacturer assumes no legal responsibility for use or reliance on this information. This SDS is provided solely for the purpose of conveying health, safety, and environmental information. This SDS is not a specification data sheet. Some of the information and conclusions may be derived from sources other than test data on the material itself.

Abbreviations and Acronyms:

ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstracts Service
EC ₅₀	Median effective concentration
EINECS	European Inventory of Existing Commercial Chemical Substances
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association

ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
LC ₅₀	Lethal concentration to 50% of exposed laboratory animals
LD ₅₀	Lethal dose to 50% of exposed laboratory animals
TWA	Time-weighted average
TLV	Threshold limit value
NIOSH	US National Institute of Occupational Safety and Health
NE	Not established
NTP	US National Toxicology Program
OEL	Occupational exposure limit
OSHA	US Occupational Safety Health Administration
PEL	Permissible exposure limit
RQ	Reportable quantity
STEL	Short term exposure limit
U.S. DOT	United States Department of Transportation