



THE EDGE OF INNOVATION

GHS COMPLIANT SAFETY DATA SHEET

TO COMPLY WITH OSHA HAZARD COMMUNICATION STANDARD 29 CFR.1910.1200
& THE GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS

SECTION 1: IDENTIFICATION

PRODUCT NAME	Benzoin
MFR.'S CODE ID/SYNONYMS	Benzoin, α -Hydroxy- α -phenylacetophenone, α -Hydroxybenzyl phenyl ketone, 2-Hydroxy-2-phenylacetophenone
CAS NUMBER	119-53-9
PRODUCT USE	Degasser for Powder Coatings
RESTRICTIONS ON USE	For Industrial Use Only
MANUFACTURER/SUPPLIER	Estron Chemical, Inc.
ADDRESS	807 North Main Street, Calvert City, KY 42029 USA
GENERAL INFORMATION	(270) 395-4195
EMERGENCY TELEPHONE	CHEMTREC (800) 424-9300

SECTION 2: HAZARDS IDENTIFICATION

Signal Word: *Warning*

GHS Classification

Physical	Health	Environmental
OSHA Combustible Dust	None	None

GHS Label

Symbols: <i>No symbol</i>	
Hazard Statements May form combustible dust concentrations in air.	Precautionary Statements None

HAZARDS NOT OTHERWISE CLASSIFIED: None identified.

SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS

INGREDIENTS	CAS #	%	CLASSIFICATION	H Codes
Benzoin	119-53-9	98 - 100	OSHA Combustible Dust	<i>None</i>

(See Section 8 for Exposure Limits)

SECTION 4: FIRST-AID MEASURES

SYMPTOMS OF EXPOSURE

ACUTE	Temporary mild skin or eye irritation.
DELAYED	Stinging, tearing, redness and swelling of the eyes. Redness or burning of the skin.
INHALATION	Remove person to fresh air and keep comfortable for breathing. If breathing is difficult, give oxygen. Obtain Medical assistance. Remove all contaminated clothing and footwear.
SKIN CONTACT	Wash skin with plenty of water. Take off contaminated clothing. Wash clothing before re-using. If skin irritation or rash occurs: Get medical advice/attention.

EYE CONTACT	Rinse cautiously with water for several minutes. Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum). Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Obtain medical attention if pain, blinking or redness persists.
INGESTION	Immediately call a poison center or doctor/physician. Never attempt to induce vomiting. Do not give an unconscious person anything to drink.
SPECIFIC TREATMENT	No other specific treatments are known or have been identified.

SECTION 5: FIRE FIGHTING MEASURES

FLAMMABILITY CLASSIFICATION	OSHA Combustible Dust
FLAMMABLE LIMITS	No test data available
HAZARDOUS COMBUSTION PRODUCTS	Carbon monoxide and carbon dioxide.
EXTINGUISHING MEDIA	Dry Chemical, Water Fog, CO ₂
UNUSUAL FIRE AND EXPLOSION HAZARDS	May represent a combustion hazard if dust from this material is allowed to accumulate in the air.
SPECIAL FIRE FIGHTING PROCEDURES	None known.
SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE FIGHTERS	As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full (Bunker) protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS	Avoid contact with skin, eyes and clothing.
PROTECTIVE EQUIPMENT	See Personal Protective Equipment in Section 8.
EMERGENCY PROCEDURES	Avoid unnecessary exposure to bystanders, prevent contact with open flames or other ignition sources.
ENVIRONMENTAL PRECAUTIONS	Obey relevant local, state, provincial and federal laws and regulations. Do not allow the product to enter public drainage systems or open water courses.
METHODS AND MATERIALS FOR CLEANING UP	Avoid creating excessive dust while collecting. Sweep or scoop into a suitable container for disposal.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING	Do not allow dust to concentrate in the air from handling. If necessary, use local ventilation. Handle in accordance with good industrial hygiene and safety practice.
CONDITIONS FOR SAFE STORAGE	Store in cool areas. Keep containers closed. The product shelf life is three years from date of manufacture in an unopened container stored at 20 °C.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

INGREDIENTS	CAS #	%	ACGIH TLV	OSHA PEL
Benzoin	119-53-9	98 - 100	<i>None established</i>	<i>None established</i>

APPROPRIATE ENGINEERING CONTROLS None required.

PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE Safety glasses or goggles.

SKIN Impervious protective gloves and clothing as appropriate to avoid skin contact.

RESPIRATORY An appropriate NIOSH approved respirator for Dust.

HYGIENE MEASURES Handle in accordance with good industrial hygiene and safety practices. When using, do not eat, drink or smoke. Wash face and hands before breaks and at the end of work. Wash contaminated clothing before re-use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	White to yellow powder	ODOR	Mild, acrid
ODOR THRESHOLD	No test data available	pH	No test data available
MELTING POINT	137 °C (279 °F)	BOILING POINT/RANGE	>200 °C
FLASH POINT	Over 200 °F	EVAPORATION RATE	No test data available
FLAMMABILITY	OSHA Combustible Dust		
FLAMMABLE LIMITS	LOWER No test data available	UPPER	No test data available
VAPOR PRESSURE	No test data available	VAPOR DENSITY	No test data available
RELATIVE DENSITY	1.31 @ 20 °C	SOLUBILITY IN H ₂ O	Very slightly soluble in cold water
PARTITION COEFFICIENT (n-octanol/water)	No test data available	AUTOIGNITION TEMPERATURE	550 °C (1022 °F)
DECOMPOSITION TEMPERATURE	No test data available	VISCOSITY	No test data available
% VOLATILE	2 Maximum	SOFTENING POINT	No test data available

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY	This product does not pose a significant reactivity hazard when stored appropriately (see Section 7).
STABILITY	This product is stable when stored appropriately (see Section 7).
CONDITIONS TO AVOID	Excessive heat and open flame, material dust accumulation.
INCOMPATIBLE PRODUCTS	Strong oxidizing or reducing agents.
HAZARDOUS DECOMPOSITION PRODUCTS	Carbon dioxide and carbon monoxide.
POSSIBILITY OF HAZARDOUS REACTIONS	Will not occur

SECTION 11: TOXICOLOGICAL INFORMATION

SYMPTOMS OF EXPOSURE	
ACUTE	Temporary mild skin or eye irritation. Coughing.
DELAYED	Stinging, tearing, redness and swelling of the eyes. Redness or burning of the skin. Irritation of the lungs and airways.
ACUTE TOXICITY	
INHALATION	May be mildly irritating.
SKIN	In some cases, eye contact will cause mild, but reversible, irritation.
EYES	In some cases, skin contact will cause mild, but reversible, irritation.
INGESTION	Not likely to have harmful effects in normal exposures, may cause nausea or gastric distress if ingested in quantity.
INHALATION TOXICITY	LC ₅₀ Rat Not established
DERMAL TOXICITY	LD ₅₀ Rat 8,870 mg/kg
SKIN IRRITATION	Draize, Rabbit, 24 hours Not established
EYE IRRITATION	Draize, Rabbit, 24 hours Not established
ORAL TOXICITY	LD ₅₀ Rat 10,000 mg/kg
SENSITIZATION	Draize, Rabbit Not established
CHRONIC EFFECTS	
CARCINOGENICITY	Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65

MUTAGENIC EFFECTS	Genotoxicity in vitro, Rat, Liver Genotoxicity in vitro, Hamster, Ovary Genotoxicity in vivo, Rat, Oral Genotoxicity in vivo, rat, Intraperitoneal	DNA damage, Unscheduled DNA synthesis Sister chromatid exchange Unscheduled DNA synthesis DNA damage
REPRODUCTIVE TOXICITY	None known	
TARGET ORGAN EFFECTS	None known	

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY	Not known to be harmful to aquatic life.
TOXICITY TO FISH	Not established
TOXICITY TO DAPHNIA	Not established
PERSISTANCE AND DEGRADABILITY	No data available
BIOACCUMULATIVE POTENTIAL	No data available
MOBILITY IN SOIL	No data available
OTHER ADVERSE EFFECTS	None known

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL Dispose of in accordance with local, state and federal regulations. This product, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This product could become a hazardous waste, if chemical additions are made or if the product is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste.

US EPA WASTE NUMBER & DESCRIPTION No information available

SECTION 14: TRANSPORT INFORMATION

This section provides basic shipping classification information. Refer to appropriate transportation regulations for specific requirements.

DOT	Not regulated	TDG	Not regulated	MEX	Not regulated
ICAO	Not regulated	IATA	Not regulated	IMDG/IMO	Not regulated
RID	Not regulated	ADR	Not regulated	ADN	Not regulated

SECTION 15: REGULATORY INFORMATION

The components in this product are either listed or exempt from listing due to polymer exemption criteria for the following chemical listing inventories as indicated by an "X":

AIIC	Australian Inventory of Industrial Chemicals	X
DSL	Canadian Domestic Substances List	X
ECL	Korean Existing Chemicals List	X
ENCS	Japanese Existing and New Chemical Substances	X
IECSC	Inventory of Existing Chemical Substances in China	X
INSQ	National Inventory of Chemical Substances in Mexico	X
NDSL	Canadian Non-Domestic Substances List	
NZIoC	New Zealand Inventory of Chemicals	X
PICCS	Philippines Inventory of Chemicals and Chemical Substances	X
TCSI	Taiwan Chemical Substances List	X
TSCA	US Toxic Substances Control Act	X
VNECI	Vietnam National Existing Chemical Inventory	X

INTERNATIONAL REGULATIONS

EU REGULATION	(EC) No. 1907/2006 (REACH) Annex XIV - List of substances subject to authorization, <i>Substances of Very High Concern</i> : This product does not contain any SVHC listed substances.
REACH	One or more components of this product are not REACH registered. Import quantities may be subject to limitation.
C.D. 96/82/EC	Council Directive 96/82/EC, Annex I not mentioned by name. With regard to possibly appropriate decomposition products see Chapter 10.

FEDERAL REGULATIONS

SARA 313	This product does not contain any chemicals which are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).
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SARA Section 311/312 (40 CFR 370) Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	Yes
Pressure Hazard	No
Reactivity Hazard	No

CERCLA	This product, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional or state level pertaining to releases of this product.
CLEAN WATER ACT	This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).
CLEAN AIR ACT	This product does not contain any substances regulated as hazardous air pollutants (HAPS under Section 112 of the Clean Air Act Amendments of 1990).
OTHER FEDERAL	None known

U.S. STATE REGULATIONS

RIGHT TO KNOW	The Listing requirements of the Right to Know (RTK) legislation varies by state. All information for NJ, PA, MA and other states can be derived from the listing of hazardous and non-hazardous components in Sections 2 and 15 of this Safety Data Sheet.
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SECTION 16: OTHER INFORMATION

DISCLAIMER	This product is intended for industrial use only and should be used in accordance with the manufacturer's recommendations. Some of the information presented and conclusions drawn herein are from sources other than direct test data on the product itself. The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable. This SDS has been prepared in accordance with the requirements of the OSHA Hazard Communication Standard (29 CFR 1910.1200).
DATE OF REVISION	April 17, 2024, <i>replaces the September 25, 2023 version</i>
REASON FOR REVISION	Updated the warnings in Section 4 to match the latest supplier information.
SDS PREPARED BY	Glen Pearson
SDS APPROVED BY	Robert Auerbach