

JM Corbond® OC Part B

Version 2.0

Revision Date 07/11/2016

Print Date 07/11/2016

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**Trade Name** : JM Corbond® OC Part B**Manufacturer or supplier's details**

Company : Johns Manville
Address : P.O. Box 5108
Denver, CO USA 80127
Telephone : 303-978-2000 8:00AM-5:00PM M-F
Emergency Telephone Number : 1-800-424-9300 (Chemtrec, in English)

SECTION 2. HAZARDS IDENTIFICATION**GHS Classification**

Acute Toxicity : Oral, Category 4
Acute Toxicity : Skin, Category 5
Skin Corrosion/Irritation, Category 1A-1C
Serious Eye Damage/Eye Irritation, Category 2B

GHS Label Element**Hazard Pictograms** :**Signal Word** : Danger

Hazard Statements : H302 - Harmful if swallowed.
H313 - May be harmful in contact with skin.
H314 - Causes severe skin burns and eye damage.
H320 - Causes eye irritation.
H402 - Harmful to aquatic life.

Precautionary Statements : P264 - Wash hands thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

GHS Response Phrases : P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+340 - IF INHALED: 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.
P337+313 - If eye irritation persists, get medical advice/attention.
P363 - Wash contaminated clothing before reuse.

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GHS Storage and Disposal Phrases : P405 - Store locked up.

Potential Health Effects (Acute and Chronic) :

Inhalation : Causes respiratory tract irritation. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. Harmful if inhaled. Skin: May be harmful if absorbed through skin. May cause skin irritation.

Skin Contact : May be harmful if absorbed through the skin. Causes skin irritation. Causes skin burns. Causes burns. Skin Absorption: Toxic if absorbed through skin.

Eye Contact : Causes eye irritation. Causes eye burns. Causes burns.

Ingestion : Harmful if swallowed.
 Small intestine. Large intestine. Additional information
 RTECS: QJ6950000

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS
Hazardous components

Chemical Name	CAS-No.	Concentration (%)
Halogenated Phosphate	N/A	40.0 - 60.0
Amine Catalyst	N/A	2.0 - 10.0

SECTION 4. FIRST AID MEASURES

Emergency and First-Aid Procedures :

If Inhaled : If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In Case of Skin Contact : Wash off with soap and plenty of water. Consult a physician. Take off contaminated clothing and shoes immediately. In case of skin contact, flush with copious amounts of water for at least 15 minutes. Call a physician.

In Case of Eye Contact : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital. In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician. In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

In Case of Ingestion : Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. Do NOT induce vomiting. If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately.

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Signs and Symptoms of Exposure : To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Note to Physician : Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

SECTION 5. FIREFIGHTING MEASURES

Suitable Extinguishing Media : Use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam. Suitable: For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible.

Fire Fighting Instructions : Wear self contained breathing apparatus for fire fighting if necessary. Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Specific Hazard(s): Emits toxic fumes under fire conditions.

Flammable Properties and Hazards : No data available.

Autoignition Point : No data.

Flash Point : 204°C

Explosive Limits : LEL: No data.
UEL: No data.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Steps To Be Taken In Case Material Is Released Or Spilled : Personal precautions.
Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.
Environmental precautions.
Do not let product enter drains.

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal. Evacuate personnel to safe areas.

PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL. PROCEDURE(S) OF PERSONAL PRECAUTION(S)
Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

Methods for cleaning up. Cover with dry lime or soda ash, pick up, keep in a closed container, and hold for waste disposal.

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

Ventilate area and wash spill site after material pickup is complete.

SECTION 7. HANDLING AND STORAGE

Precautions To Be Taken in Handling : Avoid inhalation of vapor or mist. Normal measures for preventive fire protection. User Exposure: Avoid contact with

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eyes, skin, and clothing.

Precautions to Be Taken in Storing : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Suitable: Keep away from heat and open flame. Store in a cool, dry place. Hygroscopic.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with Workplace Control Parameters

CAS-No.	Components	OSHA TWA	ACGIH TWA	Other Limits
N/A	Halogenated Phosphate	No data.	No data.	No data.
N/A	Amine Catalyst	No data.	TLV: 0.05 ppm STEL: 0.15 ppm	No data.

Respiratory Equipment (Specify Type) : If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). (EU). Hand: Compatible chemical-resistant gloves. is not required. Where protection is desired, use multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges.

Eye Protection : Face shield and safety glasses. Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Chemical safety goggles.

Protective Gloves : Handle with gloves. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Hand: Compatible chemical-resistant gloves. Eyes: Chemical safety goggles.

Other Protective Clothing : Choose body protection according to the amount and concentration of the dangerous substance at the work place Complete suit protecting against chemicals.

Engineering Controls (Ventilation, etc) : Use only in a chemical fume hood. Safety shower and eye bath. Mechanical exhaust required.

Work/Hygienic/Maintenance Practices : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Wash contaminated clothing before reuse. Discard contaminated shoes. Wash thoroughly after handling. EXPOSURE LIMITS, RTECS. Country Source Type Value. USA ACGIH TWA 0.05 PPM Remarks: Skin. STEL 0.15 PPM

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 EXPOSURE LIMITS.
 USA TWA 0.05 ppm
 USA STEL 0.15 ppm

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES
Physical States : Gas Liquid Solid

Appearance and Odor : Viscous.
 Musty.

Melting Point : No data.

Boiling Point : No data.

Autoignition Point : No data.

Flash Point : 204 °C

Explosive Limits : LEL: No data.
 UEL: No data.

Specific Gravity (Water = 1) : No data.

Vapor Pressure (vs. Air or mm Hg) : 1

Evaporation Rate : No data.

Solubility in Water : No data.

Percent Volatile : No data.

SECTION 10. STABILITY AND REACTIVITY
Stability : Unstable Stable

Conditions to Avoid - Instability : No data available.

Incompatibility - Materials to Avoid : Strong oxidizing agents, acids, Mineral acids, acids (organic, sodium hypochlorite). Corrodes metal.

Hazardous Decomposition or Byproducts : Formed under fire conditions. Carbon oxides, Phosphorous oxides, Hydrogen chloride gas, Thermal decomposition 244 °C nitrogen oxides (NOx), Carbon monoxide, Carbon dioxide, Nitrogen oxides, Ammonia, Nitric acid.

Possibility of Hazardous Reactions : Will occur Will not occur

Conditions to Avoid - Hazardous Reactions : No data available.

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SECTION 11. TOXICOLOGICAL INFORMATION

- Toxicological Information** : CAS# NA:
 Acute toxicity, LD50, Oral, Rat, 3600. MG/KG.
 Results:
 Behavioral: Somnolence (general depressed activity).
 Behavioral: Tremor.
 Lungs, Thorax, or Respiration:Other changes.
 - National Technical Information Service, Vol/p/yr: OTS05, 7713
 Acute toxicity, LD50, Intravenous, Mouse, 56.00 MG/KG.
 Results:
 Behavioral: Food intake (animal).
 Nutritional and Gross Metabolic:Weight loss or decreased weight gain.
 - U.S. Army Armament Research & Development Command, Chemical Systems Laboratory, NIOSH Exchange Chemicals., Aberdeen Proving Ground, Aberdeen Proving Ground, MD 21010, Vol/p/yr: NX#, 5768
 Skin corrosion/irritation, Skin sensitization, Skin, Rabbit, 0.000 , Mild.
 Results:
 Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Eye:Lacrimation.
 Behavioral: Tremor.
 Lungs, Thorax, or Respiration:Cyanosis
- Irritation or Corrosion** : Skin - rabbit - Mild skin irritation - 24 h.
 Serious eye damage/eye irritation:
 Skin - rabbit - Corrosive.
 Eyes - rabbit - Severe eye irritation.
- Carcinogenicity/Other** : Carcinogenicity. IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
 ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
 NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
 OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

CAS-No.	Hazardous Componentets (Chemical Name)	NTP	IARC	ACGIH	OSHA
N/A	Halogenated Phosphate	N/A	N/A	N/A	N/A
N/A	Amine Catalyst	N/A	N/A	N/A	N/A

SECTION 12. ECOLOGICAL INFORMATION

No data available.

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Persistence and : No data available.**Degradability** : Biodegradability:**Bioaccumulative Potential** : No data available.**Mobility in Soil** : No data available.**SECTION 13. DISPOSAL CONSIDERATIONS****Waste Disposal Method** : Product.
Observe all federal, state, and local environmental regulations.
Contact a licensed professional waste disposal service to dispose of this material.Contaminated packaging.
Dispose of as unused product. Offer surplus and non-recyclable solutions to a licensed disposal company.
APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION. This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber.**SECTION 14. TRANSPORT INFORMATION****GHS Classification** : Acute Toxicity: Oral, Category 4 - Warning! Harmful if swallowed
Acute Toxicity: Skin, Category 5 - Warning! May be harmful in contact with skin
Skin Corrosion/Irritation, Category 1A-1C - Danger! Causes severe skin burns and eye damage
Serious Eye Damage/Eye Irritation, Category 2B - Warning!
Causes eye irritation**LAND TRANSPORT (US DOT)**DOT Proper Shipping Name : Not Regulated.
DOT Hazard Class :
UN/NA Number :**LAND TRANSPORT (Canadian TDG)**TDG Shipping Name : Not Regulated.
UN Number :
Hazard Class : TDG Classification:**LAND TRANSPORT (European ADR/RID)**ADR/RID Shipping Name : Not Dangerous Goods
UN Number :
Hazard Class :**MARINE TRANSPORT (IMDG/IMO)**

IMDG/IMO Shipping Name : Not Regulated.

AIR TRANSPORT (ICAO/IATA)

ICAO/IATA Shipping Name : Not Regulated

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SECTION 15. REGULATORY INFORMATION

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS-No.	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
N/A	Halogenated Phosphate	No	No	No
N/A	Amine Catalyst	No	No	No

CAS-No.	Hazardous Components (Chemical Name)	
N/A	Halogenated Phosphate	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory, 8D TERM; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No
N/A	Amine Catalyst	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: Yes; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: Yes

CAS-No.	Hazardous Components (Chemical Name)	International Regulatory Lists
N/A	Halogenated Phosphate	Canadian DSL: Yes; Canadian NDSL: No
N/A	Amine Catalyst	Canadian DSL: Yes; Canadian NDSL: No

Regulatory Information : This product contains no chemicals subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 40 CFR part 372.

SECTION 16. OTHER INFORMATION

Revision Date : 7/11/2016

Additional Information About This Product : No data available.

Company Policy or Disclaimer : While the information and recommendations in this publication are given to the best of our knowledge, and information at the date of publication, nothing herein is to be construed as a warranty, expressed or otherwise. In all cases, it is the responsibility of the user to determine the applicability of such information, and recommendations or the suitability of any product for its own particular purpose.

The product may present hazards and should be used with

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caution. While certain hazards are described in this Safety Sheet, no guarantee is made that these are the only hazards that exist. Hazards, toxicity and behavior of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behavior should be determined by the user and made known to handlers, processors and end users.