

Material Safety Data Sheet (MSDS)

Complies with OSHA 29 CFR 1910.120

Kerox C-20 Accelerator

Section 1 - Product Identification

Manufacturers/Distributors Name : Kerox Chemicals Pvt. Ltd.	Date Prepared : June 03, 2004 Last Update : June 10, 2004		
Address : Kerox Chemicals Pvt. Ltd. No. 95, Basavanapura, Bannerghatta Road Bangalore – 560 083, INDIA	Emergency Phone # : (+91-80) 2842-9532 / 9774 / 9775 Email : keroxoffice@kerox.org Web : www.kerox.org		
Product (Trade) Name : Kerox™ C-20 Accelerator	General Chemical Name : 2% Cobalt Octoate Accelerator		
NFPA Classification : 4 = Extreme, 3 = High, 2 = Moderate, 1 = Slight, 0 = Insignificant			
Health : 2	Fire : 2	Reactivity : 0	Other : None

Section 2 - Ingredients and Identity Information

Chemical / Common Name	%Weight	Exposure Limits		CAS #
		PEL (mg/m ³)	TLV (mg/m ³)	
Cobalt 2-Ethyl Hexanoate	2 %	0.1	0.05	136-52-7
Mineral Spirits	98%	100 ppm	525	8052-41-3

Section 3 - Physical Data

Boiling Point (° C) 145 – 205° C	Specific Gravity 0.8
Vapor Density > 1	% Volatility by Weight Unknown
Evaporation Rate Unknown	Odor Petroleum odor

Section 4 - Fire and Explosion Hazard Data

Flash Point (° C) : 39° C	LEL : 0.8	Flammability : Above Flash Point
Extinguishing Media : Suitable fire extinguishers that are based on foam, carbon dioxide, dry chemicals. Water spray may also be used.		
Unusual Fire & Explosion Hazards : The combustible material in this product is mineral spirits, which are all hydrocarbon derivatives. Keep it closed container, away from air and oxygen, and away from sources of heat. Always keep it away from organic peroxides such as MEKP (methyl ethyl ketone peroxide).		
Special Fire Fighting Procedures : SCBA's must be used for fire fighting. Water must be sprayed on the fire.		

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Section 5 - Health Hazard Information

Permissible Exposure Limits:

See Section 1.

Potential Effects of Overexposure:

Eyes :

Irritation, conjunctivitis, burns.

Skin :

Defatting, Irritation, dermatitis, chemical burns, absorption to produce systemic effects.

Inhalation :

Respiratory Irritation, light headedness, headache, vertigo, chest pain, bronchitis, pulmonary edema, cyanosis, narcosis.

Ingestion :

Gastrointestinal pain, nausea, vomiting.

First Aid Guidelines :

Skin :

Remove any contaminated clothing immediately. If the product gets on the skin, thoroughly wash exposed area with a running stream of water for 15 minutes.

Eyes :

Thoroughly wash the eyes in a running stream of water for a minimum of 15 minutes. Seek medical aid.

Inhalation :

Remove victim from the exposure area, to an open area with fresh air. If the person is unconscious, administer artificial respiration. Seek medical help.

Ingestion :

Do not induce vomiting, as this may be a breathing hazard. Seek medical aid.

Primary Routes of Entry :

Inhalation and / or skin absorption.

Section 6 - Reactivity Data

Stability :

Stable when stored in closed original container and kept away from heat sources.

Conditions to Avoid :

Heat, sparks, flame. Auto oxidation & subsequent heat build-up can cause spontaneous combustion especially in rags.

Materials to Avoid :

Peroxides of any kind, including MEKP (methyl ethyl ketone peroxide), aluminum chloride, boron trifluoride, acids, and strong oxidizing agents.

Hazardous Decomposition Products :

None. Products from combustion are carbon monoxide and carbon dioxide.

Hazardous Polymerization:

May occur from contamination with acids.

Section 7 – Spill or Leak Procedures

Response to Spills and Release :

Ventilate area with explosion proof equipment. Wear proper protective equipment. Pick up with absorbent material and place in waste disposal container, and maintain caution since waste can undergo spontaneous combustion.

Waste Disposal Methods :

Burning is recommended for waste disposal using approved incinerators.

Section 8 - Special Protection Information

Protective Garments : Wear solvent resistant gloves, shoes, and an apron while handling the product.

Respiratory Protection : For high exposure levels, use NIOSH approved air line or self-contained respirator. A full face mask is required to prevent eye irritation from vapors. NIOSH approved organic-vapor respirator may be used for low exposure levels.

Ventilation : Use product in a well ventilated open area, and / or in an area with adequate mechanical (general and / or local exhaust) ventilation.

Eye protection : Wear chemical safety goggles.

Section 9 – Handling and Storage

Handling : Take care not to induce any sparks and keep away from sources of heat. Do not add it directly to peroxides.

Storage : Flammable liquid Class 1C. Store in well ventilated, cool, dry place away from sources of heat & ignition. Smoking should be strictly prohibited in storage and usage areas.

Other Precautions : Empty containers may contain residue. Do not cut, drill, or weld on or near container (empty or not). It can ignite explosively. Ground containers when transferring liquid. Vapors may travel along ground and flash back.

Section 10 – Ecological Information

Environmental Fate: Spills have similar effects as other oil spills. Cobalt in the product can cause cobalt metal contamination of the water or soil. Can cause inhibition or deactivation of the activated sludge of a sewage system, depending on the quantity entering the system. Cobalt compound can be eliminated from waste water by an oil and fat separator, and a flocculation precipitation system.

Section 11 – Toxicological Information

Mineral Spirits

Hazard Data:

Inhalation: Rat-LD: > 4 hours in saturated atmosphere.

Oral: Rat-LD₅₀: > 6000 mg/kg.

Skin: Rat- LD₅₀: > 3000 mg/Kg

Cobalt Octoate

Hazard Data:

Oral: Rat -LD₅₀: 3900 mg/Kg (NIOSH – 1977)

Subcutaneous: Sensitizing of skin due to cobalt metal can occur.

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